



Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 CSI Divisions 01 - 43 July 2018

Monterey County
Roads and Bridges



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About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **Monterey County**, priced locally using current labor, material and equipment costs, and published in July 2018.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **Monterey County**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

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



The Unit Prices Include:

LABOR COSTS:

- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security, Medicare taxes, worker's compensation, unemployment insurance, and employee benefits.
- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 1/2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the task; disposal of excess material; and time for lunch and breaks.

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EQUIPMENT COSTS:

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

MATERIAL COSTS:

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

The Adjustment Factors Include:

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

BUSINESS COSTS:

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

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

PROJECT RELATED COSTS:

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

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

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

PRICE VARIATIONS:

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

SUMMARY:

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

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

General Rules:

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

2 ½ stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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

DEMOLITION:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 ½ stories into a truck, dumpster, or to an owner

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

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

WORKING HEIGHT:

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

FIELD ENGINEERING:

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

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

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

ASSEMBLIES:

- ☑ Assembly tasks take precedence over individual component tasks.

RESTRICTED AND CONFINED SPACES:

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

TECHNICAL SPECIFICATIONS:

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

Or Equals:

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

Useful Information:

UNIT OF MEASURE DEFINITIONS:

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

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

MATERIAL WEIGHTS:

EARTHEN MATERIAL

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

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

Clay	3220	2150	3570
Gneiss	4550	2720	3180

BULK FACTORS FOR DEMOLITION:

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

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

CONVERSIONS:

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

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

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

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

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

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1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

TRADEMARKS

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

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

STANDARD GEOMETRY:

Circle

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

Cylinder

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

Sphere

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

$\pi = 3.14159$

United Inch

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



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 General Requirements

01 20 Price And Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

01 22 16 Unit Price Payment ^(01 22)

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

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

01 22 16 00-0002	EA	Negotiated Travel Costs	1.00

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

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

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

01 22 16 00-0004	EA	Reimbursable Fees	1.00

Note: Reimbursable Fees will be paid to the contractor for eligible costs. The base cost of the Reimbursable Fee is \$1.00. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt shall be submitted with the Price Proposal.

01 22 20 Wage Rates ^(01 22)

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

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

01 22 20 00-0002	HR	Asbestos Removal Worker	60.37

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

For Foreman, Add

3.02

For Apprentice, Deduct

-12.07

01 22 20 00-0003	HR	Brick Layer	85.45

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

For Foreman, Add

4.27

For Apprentice, Deduct

-17.09

01 22 20 00-0004	HR	Carpenter	92.04

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

For Foreman, Add

4.60

For Apprentice, Deduct

-18.41

01 22 20 00-0005	HR	Carpenter, Bridge Builder	105.47

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

For Apprentice, Deduct

-21.09

01 22 20 00-0006	HR	Cement Mason	71.77

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

For Foreman, Add

3.59

For Apprentice, Deduct

-14.35

01 22 20 00-0007	HR	Electrician	91.21

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

For Foreman, Add

4.56

For Apprentice, Deduct

-18.24

01 22 20 00-0008	HR	Electrician, Cable Splicer	92.69

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

For Apprentice, Deduct

-18.54

01 22 20 00-0009	HR	Electrical Groundman	92.69

Note: Line items in the CTC include appropriate costs to cover labor. These items will be requested specifically by the owner for miscellaneous work not covered in the CTC.

For Foreman, Add

4.63

For Apprentice, Deduct

-18.54

01 22 20 00-0010	HR	High Voltage Electrician, (Utility Lineman)	91.08

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

For Foreman, Add

4.55

For Apprentice, Deduct

-18.22

01 22 20 00-0011	HR	Communication And System Technician	78.50

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

For Apprentice, Deduct

-15.70

01 22 20 00-0012	HR	Equipment Operator, Heavy (Crane)	89.52

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

For Foreman, Add

4.48

For Apprentice, Deduct

-17.90

01 22 20 00-0013	HR	Equipment Operator, Medium (Bulldozer)	89.03

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

For Foreman, Add

4.45

For Apprentice, Deduct

-17.81

01 22 20 00-0014	HR	Equipment Operator, Light (Backhoe, Skid-Steer Loader)	84.01

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

For Foreman, Add

4.20

For Apprentice, Deduct

-16.80

01 22 20 00-0015	HR	Laborer	67.59

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

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01 22	Unit Prices



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0016	HR	Landscape Maintenance Laborer.....	67.59	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0017	HR	Millwright.....	87.92	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.40	
		For Apprentice, Deduct	-17.58	
01 22 20 00-0018	HR	Mold Removal Worker	72.97	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	3.65	
		For Apprentice, Deduct	-14.59	
01 22 20 00-0019	HR	Painter, Ordinary.....	80.68	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.03	
		For Apprentice, Deduct	-16.14	
01 22 20 00-0020	HR	Painter, Structural Steel	82.57	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.13	
		For Apprentice, Deduct	-16.51	
01 22 20 00-0021	HR	Pile Drivers	100.42	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	5.02	
		For Apprentice, Deduct	-20.08	
01 22 20 00-0022	HR	Plasterer	83.80	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.19	
		For Apprentice, Deduct	-16.76	
01 22 20 00-0023	HR	Plumber	91.92	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.60	
		For Apprentice, Deduct	-18.38	
01 22 20 00-0024	HR	Powderman.....	71.95	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	3.60	
		For Apprentice, Deduct	-14.39	
01 22 20 00-0025	HR	Rodman (Reinforcing)/Ornamental Steel Worker.....	81.69	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.08	
		For Apprentice, Deduct	-16.34	
01 22 20 00-0026	HR	Sheet Metal Worker	99.28	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.96	
		For Apprentice, Deduct	-19.86	
01 22 20 00-0027	HR	Stone Mason.....	85.45	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.27	
		For Apprentice, Deduct	-17.09	
01 22 20 00-0028	HR	Structural Steel Worker.....	84.65	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.23	
		For Apprentice, Deduct	-16.93	
01 22 20 00-0029	HR	Tile Layer	81.22	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.06	
		For Apprentice, Deduct	-16.24	
01 22 20 00-0030	HR	Terrazzo Worker	87.24	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	4.36	
		For Apprentice, Deduct	-17.45	
01 22 20 00-0031	HR	Truck Driver, Light.....	72.06	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	3.60	
		For Apprentice, Deduct	-14.41	
01 22 20 00-0032	HR	Truck Driver, Heavy	72.89	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
		For Foreman, Add	3.64	
		For Apprentice, Deduct	-14.58	
01 22 20 00-0033	HR	D1 Certified Welder.....	92.01	
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0034 Rates For Services (01 22 20)				
01 22 20 00-0035	HR	Watchman/Guard, Unarmed	26.34	
01 22 20 00-0036	HR	Watchman/Guard, Armed	29.86	
01 22 20 00-0037	HR	OSHA Testing.....	71.25	
01 22 20 00-0038	HR	Industrial Hygienist.....	75.65	
01 22 20 00-0039	HR	On-Site Certified Materials Testing Technician.....	43.35	
01 22 20 00-0040	HR	Certified Industrial Hygienist	118.05	
01 22 20 00-0041	MI	Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.54	
		Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0042	EA	Security Badge, Processing Fee.....	49.47	
01 22 20 00-0043	HR	Biologist	132.00	
01 22 20 00-0044	HR	Ecologist	145.00	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0045 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0046 HR Principal Architect.....	200.00	
01 22 20 00-0047 HR Senior Architect.....	177.00	
01 22 20 00-0048 HR Architect.....	133.00	
01 22 20 00-0049 HR Principal Engineer.....	200.00	
01 22 20 00-0050 HR Senior Engineer.....	150.00	
01 22 20 00-0051 HR Engineer.....	120.00	
01 22 20 00-0052 HR Draftsman.....	70.00	
01 22 20 00-0053 HR Project Manager.....	112.50	
01 22 20 00-0054 Rates For Traffic Control (01 22 20)		
01 22 20 00-0055 HR Flagperson For Traffic Control.....	67.59	
01 22 20 00-0056 DAY Pilot Vehicle With Driver.....	830.84	
Note: Includes CB and radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0057 HR California Highway Patrol Officer With Car.....	49.46	
For Each Mile, Add	0.56	
01 22 20 00-0058 HR California Highway Patrol Officer With Motorcycle.....	51.22	
For Each Mile, Add	0.90	
01 22 20 00-0059 HR California Highway Patrol Sergeant Officer With Car.....	62.13	
For Each Mile, Add	0.90	
01 22 20 00-0060 HR California Highway Patrol Sergeant Officer With Motorcycle.....	62.28	
For Each Mile, Add	0.90	
01 22 20 00-0061 Mobilize Equipment (01 22 20)		
01 22 20 00-0062 HR Escort Vehicle With Driver.....	75.92	
01 22 20 00-0063 HR Transport Vehicle With Driver.....	103.50	
01 22 23 Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001 Aerial Equipment (01 22 23)		
01 22 23 00-0002 Manlifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0003 Telescoping Boom Manlifts (01 22 23 00-0002)		
01 22 23 00-0004 Engine Powered, Telescoping Boom Manlifts (01 22 23 00-0003)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0005 DAY 40' Engine Powered, Telescoping Boom Manlift.....	443.76	
01 22 23 00-0006 WK 40' Engine Powered, Telescoping Boom Manlift.....	1,116.57	
01 22 23 00-0007 MO 40' Engine Powered, Telescoping Boom Manlift.....	2,505.12	
01 22 23 00-0008 DAY 60' Engine Powered, Telescoping Boom Manlift.....	651.33	
01 22 23 00-0009 WK 60' Engine Powered, Telescoping Boom Manlift.....	1,553.18	
01 22 23 00-0010 MO 60' Engine Powered, Telescoping Boom Manlift.....	3,399.81	
01 22 23 00-0011 DAY 80' Engine Powered, Telescoping Boom Manlift.....	1,266.88	
01 22 23 00-0012 WK 80' Engine Powered, Telescoping Boom Manlift.....	3,070.57	
01 22 23 00-0013 MO 80' Engine Powered, Telescoping Boom Manlift.....	6,441.75	
01 22 23 00-0014 DAY 110' Engine Powered, Telescoping Boom Manlift.....	1,803.69	
01 22 23 00-0015 WK 110' Engine Powered, Telescoping Boom Manlift.....	4,343.17	
01 22 23 00-0016 MO 110' Engine Powered, Telescoping Boom Manlift.....	10,822.14	
01 22 23 00-0017 DAY 120' Engine Powered, Telescoping Boom Manlift.....	2,197.35	
01 22 23 00-0018 WK 120' Engine Powered, Telescoping Boom Manlift.....	5,604.32	
01 22 23 00-0019 MO 120' Engine Powered, Telescoping Boom Manlift.....	12,740.35	
01 22 23 00-0020 Articulating (Up/Over) Boom Manlifts (01 22 23 00-0002)		
01 22 23 00-0021 Engine Powered, Articulating (Up/Over) Boom Manlifts (01 22 23 00-0020)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0022 DAY 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	303.82	
01 22 23 00-0023 WK 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	762.31	
01 22 23 00-0024 MO 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,833.97	
01 22 23 00-0025 DAY 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	386.68	
01 22 23 00-0026 WK 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	845.17	
01 22 23 00-0027 MO 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,098.02	
01 22 23 00-0028 DAY 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	497.16	
01 22 23 00-0029 WK 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,148.99	
01 22 23 00-0030 MO 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,568.66	
01 22 23 00-0031 DAY 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	867.27	
01 22 23 00-0032 WK 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,043.88	
01 22 23 00-0033 MO 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	4,970.50	
01 22 23 00-0034 DAY 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,684.82	
01 22 23 00-0035 WK 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	3,977.28	
01 22 23 00-0036 MO 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	9,722.24	

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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-0037 Electric, Articulating (Up/Over) Boom Manlifts (01 22 23 00-0020)

Note: For use on paved surfaces.

01 22 23 00-0038	DAY	30' Electric, Articulating (Up/Over) Boom Manlift	303.82
01 22 23 00-0039	WK	30' Electric, Articulating (Up/Over) Boom Manlift	762.31
01 22 23 00-0040	MO	30' Electric, Articulating (Up/Over) Boom Manlift	1,833.97
01 22 23 00-0041	DAY	35' Electric, Articulating (Up/Over) Boom Manlift	303.82
01 22 23 00-0042	WK	35' Electric, Articulating (Up/Over) Boom Manlift	762.31
01 22 23 00-0043	MO	35' Electric, Articulating (Up/Over) Boom Manlift	1,833.97
01 22 23 00-0044	DAY	40' Electric, Articulating (Up/Over) Boom Manlift	375.63
01 22 23 00-0045	WK	40' Electric, Articulating (Up/Over) Boom Manlift	812.03
01 22 23 00-0046	MO	40' Electric, Articulating (Up/Over) Boom Manlift	2,016.26
01 22 23 00-0047	DAY	45' Electric, Articulating (Up/Over) Boom Manlift	375.63
01 22 23 00-0048	WK	45' Electric, Articulating (Up/Over) Boom Manlift	812.03
01 22 23 00-0049	MO	45' Electric, Articulating (Up/Over) Boom Manlift	2,016.26

01 22 23 00-0050 Platform Lifts (01 22 23 00-0001)

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

01 22 23 00-0051 Electric, Scissor Platform Lifts (01 22 23 00-0050)

Note: For use on paved surfaces.

01 22 23 00-0052	DAY	17' Electric, Scissor Platform Lift	189.06
01 22 23 00-0053	WK	17' Electric, Scissor Platform Lift	378.11
01 22 23 00-0054	MO	17' Electric, Scissor Platform Lift	773.42
01 22 23 00-0055	DAY	20' Electric, Scissor Platform Lift	206.24
01 22 23 00-0056	WK	20' Electric, Scissor Platform Lift	412.49
01 22 23 00-0057	MO	20' Electric, Scissor Platform Lift	824.98
01 22 23 00-0058	DAY	25' Electric, Scissor Platform Lift	266.40
01 22 23 00-0059	WK	25' Electric, Scissor Platform Lift	532.80
01 22 23 00-0060	MO	25' Electric, Scissor Platform Lift	1,142.94
01 22 23 00-0061	DAY	30' Electric, Scissor Platform Lift	343.74
01 22 23 00-0062	WK	30' Electric, Scissor Platform Lift	678.89
01 22 23 00-0063	MO	30' Electric, Scissor Platform Lift	1,503.86
01 22 23 00-0064	DAY	33' Electric, Scissor Platform Lift	369.52
01 22 23 00-0065	WK	33' Electric, Scissor Platform Lift	721.85
01 22 23 00-0066	MO	33' Electric, Scissor Platform Lift	1,632.76
01 22 23 00-0067	DAY	40' Electric, Scissor Platform Lift	481.24
01 22 23 00-0068	WK	40' Electric, Scissor Platform Lift	1,194.50
01 22 23 00-0069	MO	40' Electric, Scissor Platform Lift	3,325.68

01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)

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

01 22 23 00-0071	DAY	25' Engine Powered, Scissor Platform Lift	386.71
01 22 23 00-0072	WK	25' Engine Powered, Scissor Platform Lift	756.23
01 22 23 00-0073	MO	25' Engine Powered, Scissor Platform Lift	1,847.60
01 22 23 00-0074	DAY	33' Engine Powered, Scissor Platform Lift	395.30
01 22 23 00-0075	WK	33' Engine Powered, Scissor Platform Lift	902.32
01 22 23 00-0076	MO	33' Engine Powered, Scissor Platform Lift	1,976.50
01 22 23 00-0077	DAY	40' Engine Powered, Scissor Platform Lift	438.27
01 22 23 00-0078	WK	40' Engine Powered, Scissor Platform Lift	1,005.44
01 22 23 00-0079	MO	40' Engine Powered, Scissor Platform Lift	2,234.31
01 22 23 00-0080	DAY	43' Engine Powered, Scissor Platform Lift	464.05
01 22 23 00-0081	WK	43' Engine Powered, Scissor Platform Lift	1,082.78
01 22 23 00-0082	MO	43' Engine Powered, Scissor Platform Lift	2,663.98
01 22 23 00-0083	DAY	50' Engine Powered, Scissor Platform Lift	867.94
01 22 23 00-0084	WK	50' Engine Powered, Scissor Platform Lift	1,907.76
01 22 23 00-0085	MO	50' Engine Powered, Scissor Platform Lift	4,692.05

01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001)

Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.

01 22 23 00-0087	DAY	24', Push-Type, Electric Single Man Personnel Lift	181.73
01 22 23 00-0088	WK	24', Push-Type, Electric Single Man Personnel Lift	514.90
01 22 23 00-0089	MO	24', Push-Type, Electric Single Man Personnel Lift	1,039.89
01 22 23 00-0090	DAY	30', Push-Type, Electric Single Man Personnel Lift	252.40
01 22 23 00-0091	WK	30', Push-Type, Electric Single Man Personnel Lift	535.09
01 22 23 00-0092	MO	30', Push-Type, Electric Single Man Personnel Lift	1,049.98
01 22 23 00-0093	DAY	36', Push-Type, Electric Single Man Personnel Lift	424.03
01 22 23 00-0094	WK	36', Push-Type, Electric Single Man Personnel Lift	1,029.79
01 22 23 00-0095	MO	36', Push-Type, Electric Single Man Personnel Lift	3,008.61
01 22 23 00-0096	DAY	40', Push-Type, Electric Single Man Personnel Lift	454.32
01 22 23 00-0097	WK	40', Push-Type, Electric Single Man Personnel Lift	1,130.75
01 22 23 00-0098	MO	40', Push-Type, Electric Single Man Personnel Lift	3,402.35
01 22 23 00-0099	DAY	15', Self-Propelled, Electric Single Man Personnel Lift	242.30
01 22 23 00-0100	WK	15', Self-Propelled, Electric Single Man Personnel Lift	484.61
01 22 23 00-0101	MO	15', Self-Propelled, Electric Single Man Personnel Lift	969.22
01 22 23 00-0102	DAY	20', Self-Propelled, Electric Single Man Personnel Lift	242.30
01 22 23 00-0103	WK	20', Self-Propelled, Electric Single Man Personnel Lift	484.61



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0104	MO	20', Self-Propelled, Electric Single Man Personnel Lift	1,007.58	
01 22 23 00-0105		Bucket Trucks (01 22 23 00-0001) Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106	DAY	29' Bucket Truck With Full-Time Operator	1,133.10	
		For Equipment Without Operator, Deduct	-583.10	
01 22 23 00-0107	WK	29' Bucket Truck With Full-Time Operator	4,565.51	
		For Equipment Without Operator, Deduct	-2,915.51	
01 22 23 00-0108	MO	29' Bucket Truck With Full-Time Operator	16,766.84	
		For Equipment Without Operator, Deduct	-12,566.84	
01 22 23 00-0109	DAY	48' Bucket Truck With Full-Time Operator	1,383.10	
		For Equipment Without Operator, Deduct	-583.10	
01 22 23 00-0110	WK	48' Bucket Truck With Full-Time Operator	5,315.51	
		For Equipment Without Operator, Deduct	-2,915.51	
01 22 23 00-0111	MO	48' Bucket Truck With Full-Time Operator	18,066.84	
		For Equipment Without Operator, Deduct	-12,566.84	
01 22 23 00-0112	DAY	62' Bucket Truck With Full-Time Operator	1,783.10	
		For Equipment Without Operator, Deduct	-583.10	
01 22 23 00-0113	WK	62' Bucket Truck With Full-Time Operator	6,215.51	
		For Equipment Without Operator, Deduct	-2,915.51	
01 22 23 00-0114	MO	62' Bucket Truck With Full-Time Operator	21,566.84	
		For Equipment Without Operator, Deduct	-12,566.84	
01 22 23 00-0115	DAY	85' Bucket Truck With Full-Time Operator	2,083.10	
		For Equipment Without Operator, Deduct	-583.10	
01 22 23 00-0116	WK	85' Bucket Truck With Full-Time Operator	7,115.51	
		For Equipment Without Operator, Deduct	-2,915.51	
01 22 23 00-0117	MO	85' Bucket Truck With Full-Time Operator	24,066.84	
		For Equipment Without Operator, Deduct	-12,566.84	
01 22 23 00-0118		Air Equipment (01 22 23)		
01 22 23 00-0119		Air Compressors (01 22 23 00-0118) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0120	DAY	100 CFM Diesel Powered Portable Air Compressor	150.63	
01 22 23 00-0121	WK	100 CFM Diesel Powered Portable Air Compressor	451.89	
01 22 23 00-0122	MO	100 CFM Diesel Powered Portable Air Compressor	1,255.25	
01 22 23 00-0123	DAY	130 CFM Diesel Powered Portable Air Compressor	180.76	
01 22 23 00-0124	WK	130 CFM Diesel Powered Portable Air Compressor	532.23	
01 22 23 00-0125	MO	130 CFM Diesel Powered Portable Air Compressor	1,506.30	
01 22 23 00-0126	DAY	185 CFM Diesel Powered Portable Air Compressor	241.01	
01 22 23 00-0127	WK	185 CFM Diesel Powered Portable Air Compressor	542.27	
01 22 23 00-0128	MO	185 CFM Diesel Powered Portable Air Compressor	1,195.00	
01 22 23 00-0129	DAY	375 CFM Diesel Powered Portable Air Compressor	341.43	
01 22 23 00-0130	WK	375 CFM Diesel Powered Portable Air Compressor	863.61	
01 22 23 00-0131	MO	375 CFM Diesel Powered Portable Air Compressor	2,058.61	
01 22 23 00-0132	DAY	600 CFM Diesel Powered Portable Air Compressor	759.18	
01 22 23 00-0133	WK	600 CFM Diesel Powered Portable Air Compressor	1,827.64	
01 22 23 00-0134	MO	600 CFM Diesel Powered Portable Air Compressor	4,555.05	
01 22 23 00-0135	DAY	750 CFM Diesel Powered Portable Air Compressor	913.82	
01 22 23 00-0136	WK	750 CFM Diesel Powered Portable Air Compressor	2,249.41	
01 22 23 00-0137	MO	750 CFM Diesel Powered Portable Air Compressor	5,523.10	
01 22 23 00-0138	DAY	825 CFM Diesel Powered Portable Air Compressor	913.82	
01 22 23 00-0139	WK	825 CFM Diesel Powered Portable Air Compressor	2,249.41	
01 22 23 00-0140	MO	825 CFM Diesel Powered Portable Air Compressor	5,523.10	
01 22 23 00-0141	DAY	1,300 CFM Diesel Powered Portable Air Compressor	1,064.45	
01 22 23 00-0142	WK	1,300 CFM Diesel Powered Portable Air Compressor	2,385.98	
01 22 23 00-0143	MO	1,300 CFM Diesel Powered Portable Air Compressor	6,362.61	
01 22 23 00-0144	DAY	1,600 CFM Diesel Powered Portable Air Compressor	1,325.54	
01 22 23 00-0145	WK	1,600 CFM Diesel Powered Portable Air Compressor	2,982.47	
01 22 23 00-0146	MO	1,600 CFM Diesel Powered Portable Air Compressor	7,953.26	
01 22 23 00-0147		Negative Air Machines (01 22 23 00-0118) Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0148	DAY	Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter	106.76	
01 22 23 00-0149	WK	Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter	438.47	
01 22 23 00-0150	MO	Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter	1,324.95	
01 22 23 00-0151	EA	Replacement HEPA Filter, 99.99% Efficient @ 0.3 Micron For Negative Air Machine..... Note: Required if over 800 hours operation.	219.12	
01 22 23 00-0152	LF	Discharge Flexible Duct For Negative Air Machine.....	1.24	
01 22 23 00-0153		Compaction And Paving Equipment (01 22 23)		
01 22 23 00-0154		Pavers And Rollers (01 22 23 00-0153) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0155		Pavers (01 22 23 00-0154)		
01 22 23 00-0156	DAY	10' Wide Paving Machine With Full-Time Operator	1,647.04	
		For Equipment Without Operator, Deduct	-712.28	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0157	WK	10' Wide Paving Machine With Full-Time Operator	7,300.41	
		<i>For Equipment Without Operator, Deduct</i>	-3,561.38	
01 22 23 00-0158	MO	10' Wide Paving Machine With Full-Time Operator	28,704.67	
		<i>For Equipment Without Operator, Deduct</i>	-15,350.76	
01 22 23 00-0159 Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0154)				
01 22 23 00-0160	DAY	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,125.53	
		<i>For Equipment Without Operator, Deduct</i>	-712.28	
01 22 23 00-0161	WK	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	4,811.28	
		<i>For Equipment Without Operator, Deduct</i>	-3,561.38	
01 22 23 00-0162	MO	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	18,743.76	
		<i>For Equipment Without Operator, Deduct</i>	-15,350.76	
01 22 23 00-0163	DAY	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	1,285.03	
		<i>For Equipment Without Operator, Deduct</i>	-712.28	
01 22 23 00-0164	WK	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	5,997.38	
		<i>For Equipment Without Operator, Deduct</i>	-3,561.38	
01 22 23 00-0165	MO	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	20,534.51	
		<i>For Equipment Without Operator, Deduct</i>	-15,350.76	
01 22 23 00-0166	DAY	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,292.28	
		<i>For Equipment Without Operator, Deduct</i>	-712.28	
01 22 23 00-0167	WK	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	5,526.13	
		<i>For Equipment Without Operator, Deduct</i>	-3,561.38	
01 22 23 00-0168	MO	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	20,882.51	
		<i>For Equipment Without Operator, Deduct</i>	-15,350.76	
01 22 23 00-0169 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0154)				
01 22 23 00-0170	DAY	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,190.78	
		<i>For Equipment Without Operator, Deduct</i>	-712.28	
01 22 23 00-0171	WK	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	4,888.13	
		<i>For Equipment Without Operator, Deduct</i>	-3,561.38	
01 22 23 00-0172	MO	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	19,186.01	
		<i>For Equipment Without Operator, Deduct</i>	-15,350.76	
01 22 23 00-0173	DAY	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,495.28	
		<i>For Equipment Without Operator, Deduct</i>	-712.28	
01 22 23 00-0174	WK	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,504.38	
		<i>For Equipment Without Operator, Deduct</i>	-3,561.38	
01 22 23 00-0175	MO	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,129.01	
		<i>For Equipment Without Operator, Deduct</i>	-15,350.76	
01 22 23 00-0176	DAY	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,567.78	
		<i>For Equipment Without Operator, Deduct</i>	-712.28	
01 22 23 00-0177	WK	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,961.13	
		<i>For Equipment Without Operator, Deduct</i>	-3,561.38	
01 22 23 00-0178	MO	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,405.01	
		<i>For Equipment Without Operator, Deduct</i>	-15,350.76	
01 22 23 00-0179 Towed, Padfoot Rollers (01 22 23 00-0154)				
01 22 23 00-0180	DAY	48" Wide, 40" Diameter, Towed Padfoot Roller	137.75	
01 22 23 00-0181	WK	48" Wide, 40" Diameter, Towed Padfoot Roller	398.75	
01 22 23 00-0182	MO	48" Wide, 40" Diameter, Towed Padfoot Roller	1,174.50	
01 22 23 00-0183	DAY	60" Wide, 60" Diameter, Towed Padfoot Roller	174.00	
01 22 23 00-0184	WK	60" Wide, 60" Diameter, Towed Padfoot Roller	485.75	
01 22 23 00-0185	MO	60" Wide, 60" Diameter, Towed Padfoot Roller	2,066.25	
01 22 23 00-0186 Static Rollers (01 22 23 00-0154)				
01 22 23 00-0187	DAY	5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	1,227.03	
		<i>For Equipment Without Operator, Deduct</i>	-712.28	
01 22 23 00-0188	WK	5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	5,199.88	
		<i>For Equipment Without Operator, Deduct</i>	-3,561.38	
01 22 23 00-0189	MO	5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	20,208.26	
		<i>For Equipment Without Operator, Deduct</i>	-15,350.76	
01 22 23 00-0190	DAY	8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	1,386.53	
		<i>For Equipment Without Operator, Deduct</i>	-712.28	
01 22 23 00-0191	WK	8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	5,634.88	
		<i>For Equipment Without Operator, Deduct</i>	-3,561.38	
01 22 23 00-0192	MO	8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	21,411.76	
		<i>For Equipment Without Operator, Deduct</i>	-15,350.76	
01 22 23 00-0193 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0154)				
01 22 23 00-0194	DAY	1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	995.03	
		<i>For Equipment Without Operator, Deduct</i>	-712.28	
01 22 23 00-0195	WK	1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	4,387.88	
		<i>For Equipment Without Operator, Deduct</i>	-3,561.38	
01 22 23 00-0196	MO	1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	17,525.76	
		<i>For Equipment Without Operator, Deduct</i>	-15,350.76	
01 22 23 00-0197	DAY	3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,103.78	
		<i>For Equipment Without Operator, Deduct</i>	-712.28	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0198 WK 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,714.13 -3,561.38	
01 22 23 00-0199 DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,176.28 -712.28	
01 22 23 00-0200 WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,931.63 -3,561.38	
01 22 23 00-0201 MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,975.76 -15,350.76	
01 22 23 00-0202 DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,270.53 -712.28	
01 22 23 00-0203 WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,207.13 -3,561.38	
01 22 23 00-0204 MO 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,693.51 -15,350.76	
01 22 23 00-0205 DAY 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,459.03 -712.28	
01 22 23 00-0206 WK 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,758.13 -3,561.38	
01 22 23 00-0207 MO 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,150.76 -15,350.76	
01 22 23 00-0208 Steel Roadway Plates (01 22 23 00-0153) Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.		
01 22 23 00-0209 EA Mobilization of Steel Roadway Plates Note: Mobilization for each site location.	368.71	
01 22 23 00-0210 EA Place And Remove Steel Roadway Plates	42.47	
01 22 23 00-0211 DAY 1" x 4' x 8' Steel Plate	28.96	
01 22 23 00-0212 WK 1" x 4' x 8' Steel Plate	68.38	
01 22 23 00-0213 MO 1" x 4' x 8' Steel Plate	89.99	
01 22 23 00-0214 DAY 1" x 4' x 10' Steel Plate	38.62	
01 22 23 00-0215 WK 1" x 4' x 10' Steel Plate	86.89	
01 22 23 00-0216 MO 1" x 4' x 10' Steel Plate	106.19	
01 22 23 00-0217 DAY 1" x 5' x 10' Steel Plate	40.22	
01 22 23 00-0218 WK 1" x 5' x 10' Steel Plate	90.91	
01 22 23 00-0219 MO 1" x 5' x 10' Steel Plate	241.35	
01 22 23 00-0220 DAY 1" x 6' x 8' Steel Plate	25.74	
01 22 23 00-0221 WK 1" x 6' x 8' Steel Plate	57.92	
01 22 23 00-0222 MO 1" x 6' x 8' Steel Plate	154.46	
01 22 23 00-0223 DAY 1" x 6' x 10' Steel Plate	48.27	
01 22 23 00-0224 WK 1" x 6' x 10' Steel Plate	63.56	
01 22 23 00-0225 MO 1" x 6' x 10' Steel Plate	169.75	
01 22 23 00-0226 DAY 1" x 6' x 12' Steel Plate	67.58	
01 22 23 00-0227 WK 1" x 6' x 12' Steel Plate	86.48	
01 22 23 00-0228 MO 1" x 6' x 12' Steel Plate	234.11	
01 22 23 00-0229 DAY 1" x 8' x 10' Steel Plate	42.64	
01 22 23 00-0230 WK 1" x 8' x 10' Steel Plate	95.74	
01 22 23 00-0231 MO 1" x 8' x 10' Steel Plate	255.03	
01 22 23 00-0232 DAY 1" x 8' x 12' Steel Plate	77.23	
01 22 23 00-0233 WK 1" x 8' x 12' Steel Plate	95.74	
01 22 23 00-0234 MO 1" x 8' x 12' Steel Plate	463.39	
01 22 23 00-0235 DAY 1" x 8' x 16' Steel Plate	102.98	
01 22 23 00-0236 WK 1" x 8' x 16' Steel Plate	231.70	
01 22 23 00-0237 MO 1" x 8' x 16' Steel Plate	617.86	
01 22 23 00-0238 DAY 1-1/4" x 8' x 10' Steel Plate	51.17	
01 22 23 00-0239 WK 1-1/4" x 8' x 10' Steel Plate	114.88	
01 22 23 00-0240 MO 1-1/4" x 8' x 10' Steel Plate	306.03	
01 22 23 00-0241 DAY 1-1/2" x 8' x 15' Steel Plate	118.42	
01 22 23 00-0242 WK 1-1/2" x 8' x 15' Steel Plate	266.45	
01 22 23 00-0243 MO 1-1/2" x 8' x 15' Steel Plate	710.53	
01 22 23 00-0244 LF Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	1.70	0.83
01 22 23 00-0245 EA Remove And Reset Steel Roadway Plate	23.60	
01 22 23 00-0246 Street Sweepers (01 22 23 00-0153) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0247 DAY 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	823.01 -672.09	
01 22 23 00-0248 WK 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,958.48 -3,360.44	
01 22 23 00-0249 MO 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	16,615.31 -14,484.64	
01 22 23 00-0250 DAY Self-Propelled Street Sweeper With Hopper And Full-Time Operator Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i>	1,546.51 -672.09	
01 22 23 00-0251 WK Self-Propelled Street Sweeper With Hopper And Full-Time Operator Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i>	6,862.95 -3,360.44	
01 22 23 00-0252 MO Self-Propelled Street Sweeper With Hopper And Full-Time Operator Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i>	26,984.26 -14,484.64	

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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-0253	Earthmoving Equipment (01 22 23)		
01 22 23 00-0254	Skid-Steer Loaders (01 22 23 00-0253)		
Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.			
01 22 23 00-0255	DAY 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	890.51	
	For Equipment Without Operator, Deduct	-672.09	
01 22 23 00-0256	WK 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	3,933.46	
	For Equipment Without Operator, Deduct	-3,360.44	
01 22 23 00-0257	MO 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	15,864.63	
	For Equipment Without Operator, Deduct	-14,484.64	
01 22 23 00-0258	DAY 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	948.09	
	For Equipment Without Operator, Deduct	-672.09	
01 22 23 00-0259	WK 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	4,037.64	
	For Equipment Without Operator, Deduct	-3,360.44	
01 22 23 00-0260	MO 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	16,093.10	
	For Equipment Without Operator, Deduct	-14,484.64	
01 22 23 00-0261	DAY 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	964.54	
	For Equipment Without Operator, Deduct	-672.09	
01 22 23 00-0262	WK 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	4,187.52	
	For Equipment Without Operator, Deduct	-3,360.44	
01 22 23 00-0263	MO 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	16,490.65	
	For Equipment Without Operator, Deduct	-14,484.64	
01 22 23 00-0264	DAY 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,028.51	
	For Equipment Without Operator, Deduct	-672.09	
01 22 23 00-0265	WK 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	4,397.72	
	For Equipment Without Operator, Deduct	-3,360.44	
01 22 23 00-0266	MO 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	17,185.21	
	For Equipment Without Operator, Deduct	-14,484.64	
01 22 23 00-0267	DAY 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,138.18	
	For Equipment Without Operator, Deduct	-672.09	
01 22 23 00-0268	WK 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	4,813.54	
	For Equipment Without Operator, Deduct	-3,360.44	
01 22 23 00-0269	MO 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	18,208.78	
	For Equipment Without Operator, Deduct	-14,484.64	
01 22 23 00-0270	DAY Hydraulic Hammer Attachment For Skid-Steer Loaders	182.78	
01 22 23 00-0271	WK Hydraulic Hammer Attachment For Skid-Steer Loaders	607.74	
01 22 23 00-0272	MO Hydraulic Hammer Attachment For Skid-Steer Loaders	1,617.60	
01 22 23 00-0273	DAY Forklift Attachment For Skid-Steer Loaders	39.30	
01 22 23 00-0274	WK Forklift Attachment For Skid-Steer Loaders	105.10	
01 22 23 00-0275	MO Forklift Attachment For Skid-Steer Loaders	297.02	
01 22 23 00-0276	DAY Backhoe Attachment For Skid-Steer Loaders	86.82	
01 22 23 00-0277	WK Backhoe Attachment For Skid-Steer Loaders	208.37	
01 22 23 00-0278	MO Backhoe Attachment For Skid-Steer Loaders	518.18	
01 22 23 00-0279	DAY Broom Attachment For Skid-Steer Loaders	85.91	
01 22 23 00-0280	WK Broom Attachment For Skid-Steer Loaders	233.04	
01 22 23 00-0281	MO Broom Attachment For Skid-Steer Loaders	616.88	
01 22 23 00-0282	DAY Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	74.94	
01 22 23 00-0283	WK Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	206.54	
01 22 23 00-0284	MO Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	563.88	
01 22 23 00-0285	DAY Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	20.65	
01 22 23 00-0286	WK Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	54.04	
01 22 23 00-0287	MO Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	158.94	
01 22 23 00-0288	DAY >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	27.81	
01 22 23 00-0289	WK >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	69.14	
01 22 23 00-0290	MO >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	206.62	
01 22 23 00-0291	DAY Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	40.52	
01 22 23 00-0292	WK Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	123.18	
01 22 23 00-0293	MO Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	365.56	
01 22 23 00-0294	DAY 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	8.23	
01 22 23 00-0295	WK 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	19.19	
01 22 23 00-0296	MO 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	51.18	
01 22 23 00-0297	Bulldozers (01 22 23 00-0253)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.			
01 22 23 00-0298	DAY 70 HP, D3 Bulldozer With Full-Time Operator	1,041.38	
	For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0299	WK 70 HP, D3 Bulldozer With Full-Time Operator	4,859.17	
	For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0300	MO 70 HP, D3 Bulldozer With Full-Time Operator	19,200.65	
	For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0301	DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	1,196.62	
	For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0302	WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	5,486.32	
	For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0303	MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	21,125.60	
	For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0304	DAY 140 HP, D6 Bulldozer With Full-Time Operator	1,637.50	
	For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0305	WK 140 HP, D6 Bulldozer With Full-Time Operator	7,249.82	
	For Equipment Without Operator, Deduct	-3,561.38	



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01 22 23 00-0306	MO		140 HP, D6 Bulldozer With Full-Time Operator	26,403.67	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0307	DAY		200 HP, D7 Bulldozer With Full-Time Operator	2,028.69	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0308	WK		200 HP, D7 Bulldozer With Full-Time Operator	8,820.83	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0309	MO		200 HP, D7 Bulldozer With Full-Time Operator	31,122.89	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0310	DAY		335 HP, D8 Bulldozer With Full-Time Operator	2,494.41	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0311	WK		335 HP, D8 Bulldozer With Full-Time Operator	10,683.68	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0312	MO		335 HP, D8 Bulldozer With Full-Time Operator	36,711.44	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0313	DAY		460 HP, D9 Bulldozer With Full-Time Operator	2,755.21	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0314	WK		460 HP, D9 Bulldozer With Full-Time Operator	11,720.66	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0315	MO		460 HP, D9 Bulldozer With Full-Time Operator	39,816.19	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0316 Motor Scraper (01 22 23 00-0253)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0317	DAY		11 CY Motor Scraper-Hauler With Full-Time Operator	1,738.51	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0318	WK		11 CY Motor Scraper-Hauler With Full-Time Operator	7,666.32	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0319	MO		11 CY Motor Scraper-Hauler With Full-Time Operator	27,651.51	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0320	DAY		18 CY Motor Scraper-Hauler With Full-Time Operator	2,153.22	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0321	WK		18 CY Motor Scraper-Hauler With Full-Time Operator	9,325.16	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0322	MO		18 CY Motor Scraper-Hauler With Full-Time Operator	32,642.10	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0323	DAY		24 CY Motor Scraper-Hauler With Full-Time Operator	2,553.88	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0324	WK		24 CY Motor Scraper-Hauler With Full-Time Operator	10,920.74	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0325	MO		24 CY Motor Scraper-Hauler With Full-Time Operator	37,421.82	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0326 Hydraulic Excavators (01 22 23 00-0253)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0327	DAY		3/8 CY Hydraulic Excavator With Full-Time Operator	1,062.74	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0328	WK		3/8 CY Hydraulic Excavator With Full-Time Operator	4,800.97	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0329	MO		3/8 CY Hydraulic Excavator With Full-Time Operator	19,504.36	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0330	DAY		1/2 CY Hydraulic Excavator With Full-Time Operator	1,161.39	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0331	WK		1/2 CY Hydraulic Excavator With Full-Time Operator	5,235.80	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0332	MO		1/2 CY Hydraulic Excavator With Full-Time Operator	21,243.68	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0333	DAY		5/8 CY Hydraulic Excavator With Full-Time Operator	1,192.54	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0334	WK		5/8 CY Hydraulic Excavator With Full-Time Operator	5,398.05	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0335	MO		5/8 CY Hydraulic Excavator With Full-Time Operator	21,529.24	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0336	DAY		3/4 CY Hydraulic Excavator With Full-Time Operator	1,224.99	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0337	WK		3/4 CY Hydraulic Excavator With Full-Time Operator	5,547.32	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0338	MO		3/4 CY Hydraulic Excavator With Full-Time Operator	21,814.80	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0339	DAY		7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	1,250.95	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0340	WK		7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	5,703.08	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0341	MO		7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	22,100.36	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0342	DAY		1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,601.41	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0343	WK		1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	7,098.43	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0344	MO		1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	25,961.91	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0345	DAY		1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	1,653.33	
			For Equipment Without Operator, Deduct	-712.28	

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01 22 23 00-0346 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....	7,325.58	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0347 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....	26,643.36	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0348 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....	1,750.68	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0349 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....	7,714.98	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0350 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....	27,811.56	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0351 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	1,861.01	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0352 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	8,149.81	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0353 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	29,109.56	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0354 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	1,893.46	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0355 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	8,279.61	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0356 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	29,498.96	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0357 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,204.98	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0358 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	9,532.18	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0359 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	33,263.16	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0360 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,652.79	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0361 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	11,310.44	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0362 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	38,584.96	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0363 DAY 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	3,204.44	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0364 WK 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	13,517.04	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0365 MO 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	45,204.76	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0366 DAY Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	1,776.64	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0367 WK Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	7,805.84	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0368 MO Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	28,071.16	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0369 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	90.86	
01 22 23 00-0370 WK Thumbs Or Grapple Attachment For Hydraulic Excavators	350.46	
01 22 23 00-0371 MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,038.40	
01 22 23 00-0372 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	402.38	
01 22 23 00-0373 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,064.36	
01 22 23 00-0374 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,978.91	
01 22 23 00-0375 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	623.04	
01 22 23 00-0376 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,590.05	
01 22 23 00-0377 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,134.13	
01 22 23 00-0378 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	869.66	
01 22 23 00-0379 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,342.89	
01 22 23 00-0380 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,567.88	
01 22 23 00-0381 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	181.72	
01 22 23 00-0382 WK 24" Compaction Wheel Attachment For Hydraulic Excavators	726.88	
01 22 23 00-0383 MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,180.64	
01 22 23 00-0384 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	259.60	
01 22 23 00-0385 WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,038.40	
01 22 23 00-0386 MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,115.20	
01 22 23 00-0387 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	285.56	
01 22 23 00-0388 WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,129.26	
01 22 23 00-0389 MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,374.80	
01 22 23 00-0390 Mini-Excavators (01 22 23 00-0253)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0391 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	984.86	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0392 WK 2,000 LB Mini-Excavator With Full-Time Operator.....	4,333.69	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0393 MO 2,000 LB Mini-Excavator With Full-Time Operator.....	17,051.14	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0394 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	991.35	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0395 WK 3,500 LB Mini-Excavator With Full-Time Operator.....	4,353.16	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0396 MO 3,500 LB Mini-Excavator With Full-Time Operator.....	17,460.01	
For Equipment Without Operator, Deduct	-15,350.76	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0397	DAY		6,000 LB Mini-Excavator With Full-Time Operator.....	1,023.80	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0398	WK		6,000 LB Mini-Excavator With Full-Time Operator.....	4,444.02	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0399	MO		6,000 LB Mini-Excavator With Full-Time Operator.....	17,518.42	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0400	DAY		7,500 LB Mini-Excavator With Full-Time Operator.....	1,036.78	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0401	WK		7,500 LB Mini-Excavator With Full-Time Operator.....	4,489.45	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0402	MO		7,500 LB Mini-Excavator With Full-Time Operator.....	17,544.38	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0403	DAY		9,500 LB Mini-Excavator With Full-Time Operator.....	1,114.66	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0404	WK		9,500 LB Mini-Excavator With Full-Time Operator.....	4,554.35	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0405	MO		9,500 LB Mini-Excavator With Full-Time Operator.....	18,297.22	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0406	DAY		11,000 LB Mini-Excavator With Full-Time Operator.....	1,121.15	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0407	WK		11,000 LB Mini-Excavator With Full-Time Operator.....	4,878.85	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0408	MO		11,000 LB Mini-Excavator With Full-Time Operator.....	18,329.67	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0409 Gradall, Telescopic Hydraulic Excavators (01 22 23 00-0253)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0410	DAY		Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	2,281.36	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0411	WK		Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	9,830.70	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0412	MO		Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	37,726.85	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0413 Road Graders (01 22 23 00-0253)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0414	DAY		60 HP Road Grader With Full-Time Operator	1,293.44	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0415	WK		60 HP Road Grader With Full-Time Operator	5,133.49	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0416	MO		60 HP Road Grader With Full-Time Operator	20,052.18	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0417	DAY		80 HP Road Grader With Full-Time Operator	1,464.80	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0418	WK		80 HP Road Grader With Full-Time Operator	5,610.33	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0419	MO		80 HP Road Grader With Full-Time Operator	21,497.62	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0420	DAY		130 HP Road Grader With Full-Time Operator	1,348.76	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0421	WK		130 HP Road Grader With Full-Time Operator	6,107.30	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0422	MO		130 HP Road Grader With Full-Time Operator	24,449.07	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0423 Loader-Backhoes With Standard Bucket (01 22 23 00-0253)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0424	DAY		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	1,105.90	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0425	WK		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	4,496.24	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0426	MO		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	17,550.84	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0427	DAY		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	1,148.08	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0428	WK		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	4,643.85	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0429	MO		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	18,450.55	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0430	DAY		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	1,213.10	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0431	WK		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	4,805.51	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0432	MO		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	18,914.46	
			For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0433	DAY		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	1,503.04	
			For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0434	WK		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	5,670.08	
			For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0435	MO		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	21,388.67	
			For Equipment Without Operator, Deduct	-15,350.76	

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01 22 23 00-0436 Heavy Duty Construction Loaders (01 22 23 00-0253) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0437 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	1,177.03	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0438 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	5,398.93	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0439 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	20,856.26	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0440 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	1,563.13	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0441 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	5,820.78	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0442 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	21,070.76	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0443 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	1,648.93	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0444 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	6,049.58	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0445 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	21,642.76	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0446 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	1,884.88	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0447 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	6,671.63	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0448 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	23,215.76	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0449 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	2,492.63	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0450 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	10,668.48	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0451 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	36,657.76	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0452 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	6,496.56	
For Equipment Without Operator, Deduct	-712.28	
01 22 23 00-0453 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	22,344.23	
For Equipment Without Operator, Deduct	-3,561.38	
01 22 23 00-0454 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	66,539.11	
For Equipment Without Operator, Deduct	-15,350.76	
01 22 23 00-0455 Shoring (01 22 23 00-0253) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0456 Aluminum Hydraulic Shoring (01 22 23 00-0455) Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0457 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	58.15	
Note: Up to 88" spread width.		
01 22 23 00-0458 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	171.52	
Note: Up to 88" spread width.		
01 22 23 00-0459 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring.....	78.01	
Note: Up to 88" spread width.		
01 22 23 00-0460 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring.....	230.08	
Note: Up to 88" spread width.		
01 22 23 00-0461 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring.....	144.65	
Note: Up to 88" spread width.		
01 22 23 00-0462 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring.....	426.70	
Note: Up to 88" spread width.		
01 22 23 00-0463 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	21.22	
01 22 23 00-0464 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores	33.95	
01 22 23 00-0465 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores	56.58	
01 22 23 00-0466 Trench Boxes/Trench Shields (01 22 23 00-0253) Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0467 WK 4' x 6' Trench Box With Up To 48" Spreaders.....	147.61	
01 22 23 00-0468 MO 4' x 6' Trench Box With Up To 48" Spreaders.....	442.82	
01 22 23 00-0469 WK 6' x 6' Trench Box With Up To 48" Spreaders.....	166.65	
01 22 23 00-0470 MO 6' x 6' Trench Box With Up To 48" Spreaders.....	499.96	
01 22 23 00-0471 WK 8' x 6' Trench Box With Up To 48" Spreaders.....	176.18	
01 22 23 00-0472 MO 8' x 6' Trench Box With Up To 48" Spreaders.....	528.53	
01 22 23 00-0473 WK 4' x 8' Trench Box With Up To 48" Spreaders.....	161.89	
01 22 23 00-0474 MO 4' x 8' Trench Box With Up To 48" Spreaders.....	485.67	
01 22 23 00-0475 WK 6' x 8' Trench Box With Up To 48" Spreaders.....	190.46	
01 22 23 00-0476 MO 6' x 8' Trench Box With Up To 48" Spreaders.....	571.38	
01 22 23 00-0477 WK 8' x 8' Trench Box With Up To 48" Spreaders.....	214.27	
01 22 23 00-0478 MO 8' x 8' Trench Box With Up To 48" Spreaders.....	642.80	
01 22 23 00-0479 WK 4' x 10' Trench Box With Up To 48" Spreaders.....	180.94	
01 22 23 00-0480 MO 4' x 10' Trench Box With Up To 48" Spreaders.....	542.81	
01 22 23 00-0481 WK 6' x 10' Trench Box With Up To 48" Spreaders.....	214.27	
01 22 23 00-0482 MO 6' x 10' Trench Box With Up To 48" Spreaders.....	642.80	
01 22 23 00-0483 WK 8' x 10' Trench Box With Up To 48" Spreaders.....	261.88	



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01 22 23 00-0484 MO 8' x 10' Trench Box With Up To 48" Spreaders.....	780.89	
01 22 23 00-0485 WK 4' x 12' Trench Box With Up To 48" Spreaders.....	214.27	
01 22 23 00-0486 MO 4' x 12' Trench Box With Up To 48" Spreaders.....	642.80	
01 22 23 00-0487 WK 6' x 12' Trench Box With Up To 48" Spreaders.....	261.88	
01 22 23 00-0488 MO 6' x 12' Trench Box With Up To 48" Spreaders.....	785.65	
01 22 23 00-0489 WK 8' x 12' Trench Box With Up To 48" Spreaders.....	333.30	
01 22 23 00-0490 MO 8' x 12' Trench Box With Up To 48" Spreaders.....	999.92	
01 22 23 00-0491 WK 4' x 14' Trench Box With Up To 48" Spreaders.....	238.08	
01 22 23 00-0492 MO 4' x 14' Trench Box With Up To 48" Spreaders.....	714.22	
01 22 23 00-0493 WK 6' x 14' Trench Box With Up To 48" Spreaders.....	309.50	
01 22 23 00-0494 MO 6' x 14' Trench Box With Up To 48" Spreaders.....	928.49	
01 22 23 00-0495 WK 8' x 14' Trench Box With Up To 48" Spreaders.....	380.92	
01 22 23 00-0496 MO 8' x 14' Trench Box With Up To 48" Spreaders.....	1,142.76	
01 22 23 00-0497 WK 4' x 16' Trench Box With Up To 48" Spreaders.....	261.88	
01 22 23 00-0498 MO 4' x 16' Trench Box With Up To 48" Spreaders.....	785.65	
01 22 23 00-0499 WK 6' x 16' Trench Box With Up To 48" Spreaders.....	357.11	
01 22 23 00-0500 MO 6' x 16' Trench Box With Up To 48" Spreaders.....	1,071.34	
01 22 23 00-0501 WK 8' x 16' Trench Box With Up To 48" Spreaders.....	428.54	
01 22 23 00-0502 MO 8' x 16' Trench Box With Up To 48" Spreaders.....	1,285.60	
01 22 23 00-0503 WK 4' x 20' Trench Box With Up To 48" Spreaders.....	309.50	
01 22 23 00-0504 MO 4' x 20' Trench Box With Up To 48" Spreaders.....	928.49	
01 22 23 00-0505 WK 6' x 20' Trench Box With Up To 48" Spreaders.....	428.54	
01 22 23 00-0506 MO 6' x 20' Trench Box With Up To 48" Spreaders.....	1,285.60	
01 22 23 00-0507 WK 8' x 20' Trench Box With Up To 48" Spreaders.....	499.96	
01 22 23 00-0508 MO 8' x 20' Trench Box With Up To 48" Spreaders.....	1,499.87	
01 22 23 00-0509 WK 4' x 24' Trench Box With Up To 48" Spreaders.....	428.54	
01 22 23 00-0510 MO 4' x 24' Trench Box With Up To 48" Spreaders.....	1,285.60	
01 22 23 00-0511 WK 6' x 24' Trench Box With Up To 48" Spreaders.....	523.76	
01 22 23 00-0512 MO 6' x 24' Trench Box With Up To 48" Spreaders.....	1,571.30	
01 22 23 00-0513 WK 8' x 24' Trench Box With Up To 48" Spreaders.....	571.38	
01 22 23 00-0514 MO 8' x 24' Trench Box With Up To 48" Spreaders.....	1,714.14	
01 22 23 00-0515 WK For Spreaders >48" To 84", Add.....	14.28	
01 22 23 00-0516 MO For Spreaders >48" To 84", Add.....	42.85	
01 22 23 00-0517 WK For Spreaders >84" To 120", Add.....	85.71	
01 22 23 00-0518 MO For Spreaders >84" To 120", Add.....	257.12	
01 22 23 00-0519 WK For Spreaders >120", Add.....	180.94	
01 22 23 00-0520 MO For Spreaders >120", Add.....	542.81	
01 22 23 00-0521 WK 8' x 4' Manhole Box.....	224.98	
01 22 23 00-0522 MO 8' x 4' Manhole Box.....	674.94	
01 22 23 00-0523 WK 8' x 8' Manhole Box.....	321.40	
01 22 23 00-0524 MO 8' x 8' Manhole Box.....	964.20	
01 22 23 00-0525 Trenchers (01 22 23 00-0253)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0526 DAY 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,042.94	
For Equipment Without Operator, Deduct.....	-712.28	
01 22 23 00-0527 WK 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	4,687.68	
For Equipment Without Operator, Deduct.....	-3,561.38	
01 22 23 00-0528 MO 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	18,450.66	
For Equipment Without Operator, Deduct.....	-15,350.76	
01 22 23 00-0529 DAY 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,600.92	
For Equipment Without Operator, Deduct.....	-712.28	
01 22 23 00-0530 WK 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	6,568.28	
For Equipment Without Operator, Deduct.....	-3,561.38	
01 22 23 00-0531 MO 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	23,617.16	
For Equipment Without Operator, Deduct.....	-15,350.76	
01 22 23 00-0532 Portable Sediment Tank (01 22 23 00-0253)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0533 WK Portable Sediment Tank.....	110.09	
01 22 23 00-0534 MO Portable Sediment Tank.....	322.94	
01 22 23 00-0535 Heavy Equipment Mats (01 22 23 00-0253)		
Note: Rental price per mat. Excludes mobilization and demobilization. See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0536 Day 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	14.40	
01 22 23 00-0537 WK 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	34.29	
01 22 23 00-0538 MO 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	72.00	
01 22 23 00-0539 Day 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	15.12	
01 22 23 00-0540 WK 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	36.00	
01 22 23 00-0541 MO 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	75.60	
01 22 23 00-0542 Day 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	12.24	
01 22 23 00-0543 WK 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	28.80	
01 22 23 00-0544 MO 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	61.20	
01 22 23 00-0545 Day 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	13.68	
01 22 23 00-0546 WK 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	32.40	
01 22 23 00-0547 MO 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	68.40	
01 22 23 00-0548 Day 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	15.12	
01 22 23 00-0549 WK 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	36.00	

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01 22 23 00-0550 MO 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	75.60	
01 22 23 00-0551 Day 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	16.56	
01 22 23 00-0552 WK 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	39.43	
01 22 23 00-0553 MO 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	82.80	
01 22 23 00-0554 Day 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	12.96	
01 22 23 00-0555 WK 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	36.00	
01 22 23 00-0556 MO 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	64.80	
01 22 23 00-0557 Day 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	15.12	
01 22 23 00-0558 WK 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	36.00	
01 22 23 00-0559 MO 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	75.60	
01 22 23 00-0560 Day 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	18.00	
01 22 23 00-0561 WK 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	39.60	
01 22 23 00-0562 MO 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	90.00	
01 22 23 00-0563 Day 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	19.44	
01 22 23 00-0564 WK 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	46.29	
01 22 23 00-0565 MO 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	97.20	
01 22 23 00-0566 Day 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	20.88	
01 22 23 00-0567 WK 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	49.71	
01 22 23 00-0568 MO 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	104.40	
01 22 23 00-0569 Day 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	21.60	
01 22 23 00-0570 WK 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	51.43	
01 22 23 00-0571 MO 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	108.00	
01 22 23 00-0572 Day 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	6.93	
01 22 23 00-0573 WK 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	17.32	
01 22 23 00-0574 MO 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	51.95	
01 22 23 00-0575 Day 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	8.28	
01 22 23 00-0576 WK 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	20.70	
01 22 23 00-0577 MO 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	62.10	
01 22 23 00-0578 Day 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	9.46	
01 22 23 00-0579 WK 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	23.64	
01 22 23 00-0580 MO 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	70.92	
01 22 23 00-0581 Day 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	10.08	
01 22 23 00-0582 WK 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	25.20	
01 22 23 00-0583 MO 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	75.60	
01 22 23 00-0584 Day 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	11.52	
01 22 23 00-0585 WK 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	28.80	
01 22 23 00-0586 MO 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	86.40	
01 22 23 00-0587 Day 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	13.24	
01 22 23 00-0588 WK 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	33.10	
01 22 23 00-0589 MO 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	99.29	
01 22 23 00-0590 Day 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	10.19	
01 22 23 00-0591 WK 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	25.46	
01 22 23 00-0592 MO 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	76.39	
01 22 23 00-0593 Day 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	13.79	
01 22 23 00-0594 WK 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	34.48	
01 22 23 00-0595 MO 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	103.43	
01 22 23 00-0596 Day 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	11.92	
01 22 23 00-0597 WK 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	29.81	
01 22 23 00-0598 MO 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	89.42	
01 22 23 00-0599 Day 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	19.89	
01 22 23 00-0600 WK 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	49.71	
01 22 23 00-0601 MO 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	149.14	
01 22 23 00-0602 Day 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	21.20	
01 22 23 00-0603 WK 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	52.99	
01 22 23 00-0604 MO 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	158.98	

01 22 23 00-0605 Electrical Equipment (01 22 23)

01 22 23 00-0606 Tripod Mounted Floodlights (01 22 23 00-0605)

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

01 22 23 00-0607 DAY 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	63.36
01 22 23 00-0608 WK 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	149.90
01 22 23 00-0609 MO 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	316.81
01 22 23 00-0610 DAY 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	63.36
01 22 23 00-0611 WK 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	185.45
01 22 23 00-0612 MO 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	548.62
01 22 23 00-0613 DAY 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	71.09
01 22 23 00-0614 WK 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	193.18
01 22 23 00-0615 MO 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	471.35

01 22 23 00-0616 Trailer Mounted Floodlights (01 22 23 00-0605)

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

01 22 23 00-0617 DAY 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	177.72
01 22 23 00-0618 WK 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	394.08
01 22 23 00-0619 MO 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	849.97

01 22 23 00-0620 Generator Sets (01 22 23 00-0605)



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01 22 23 00-0621		Portable, Gas Or Diesel Powered Generator Sets (01 22 23 00-0620) Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0728 for reimbursable fuel fees.		
01 22 23 00-0622	DAY	3.6 KW, 8 HP Gas Powered Generator Set.....	46.37	
		For LP Or NG Gas, Add	5.80	
		For >160 To 320 Hours Usage Per Month, Add	23.19	
01 22 23 00-0623	WK	3.6 KW, 8 HP Gas Powered Generator Set.....	167.15	
		For LP Or NG Gas, Add	20.89	
01 22 23 00-0624	MO	3.6 KW, 8 HP Gas Powered Generator Set.....	463.71	
		For LP Or NG Gas, Add	57.96	
01 22 23 00-0625	DAY	5 KW, 11 HP Gas Powered Generator Set.....	65.78	
		For LP Or NG Gas, Add	8.22	
01 22 23 00-0626	WK	5 KW, 11 HP Gas Powered Generator Set.....	210.29	
		For LP Or NG Gas, Add	26.29	
01 22 23 00-0627	MO	5 KW, 11 HP Gas Powered Generator Set.....	479.89	
		For LP Or NG Gas, Add	59.99	
01 22 23 00-0628	DAY	6.5 KW, 13 HP Gas Powered Generator Set.....	84.12	
		For LP Or NG Gas, Add	10.52	
01 22 23 00-0629	WK	6.5 KW, 13 HP Gas Powered Generator Set.....	226.46	
		For LP Or NG Gas, Add	28.31	
01 22 23 00-0630	MO	6.5 KW, 13 HP Gas Powered Generator Set.....	625.47	
		For LP Or NG Gas, Add	78.18	
01 22 23 00-0631	DAY	10 KW, 18 HP Gas Powered Generator Set.....	93.82	
		For LP Or NG Gas, Add	11.73	
01 22 23 00-0632	WK	10 KW, 18 HP Gas Powered Generator Set.....	253.42	
		For LP Or NG Gas, Add	31.68	
01 22 23 00-0633	MO	10 KW, 18 HP Gas Powered Generator Set.....	727.92	
		For LP Or NG Gas, Add	90.99	
01 22 23 00-0634		Towable, Diesel Powered Generator Sets (01 22 23 00-0620) Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0728 for reimbursable fuel fees.		
01 22 23 00-0635	DAY	20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	193.03	
		Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
		For >8 To 16 Hours Usage Per Day, Add	96.52	
		For >16 To 24 Hours Usage Per Day, Add	193.03	
01 22 23 00-0636	WK	20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	504.69	
		Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
		For >40 To 80 Hours Usage Per Week, Add	252.35	
		For >80 Hours Usage Per Week, Add	504.69	
01 22 23 00-0637	MO	20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,374.96	
		Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
		For >160 To 320 Hours Usage Per Month, Add	687.48	
		For >320 Hours Usage Per Month, Add	1,374.96	
01 22 23 00-0638	DAY	30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	303.09	
		Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
		For >8 To 16 Hours Usage Per Day, Add	151.55	
		For >16 To 24 Hours Usage Per Day, Add	303.09	
01 22 23 00-0639	WK	30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	899.48	
		Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
		For >40 To 80 Hours Usage Per Week, Add	449.74	
		For >80 Hours Usage Per Week, Add	899.48	
01 22 23 00-0640	MO	30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,857.63	
		Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
		For >160 To 320 Hours Usage Per Month, Add	928.82	
		For >320 Hours Usage Per Month, Add	1,857.63	
01 22 23 00-0641	DAY	40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	332.42	
		Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
		For >8 To 16 Hours Usage Per Day, Add	166.21	
		For >16 To 24 Hours Usage Per Day, Add	332.42	
01 22 23 00-0642	WK	40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	928.82	
		Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
		For >40 To 80 Hours Usage Per Week, Add	464.41	
		For >80 Hours Usage Per Week, Add	928.82	
01 22 23 00-0643	MO	40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,053.17	
		Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
		For >160 To 320 Hours Usage Per Month, Add	1,026.59	
		For >320 Hours Usage Per Month, Add	2,053.17	
01 22 23 00-0644	DAY	55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	356.86	
		Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
		For >8 To 16 Hours Usage Per Day, Add	178.43	
		For >16 To 24 Hours Usage Per Day, Add	356.86	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0645	WK		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	977.70	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	488.85	
			For >80 Hours Usage Per Week, Add	977.70	
01 22 23 00-0646	MO		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,346.48	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,173.24	
			For >320 Hours Usage Per Month, Add	2,346.48	
01 22 23 00-0647	DAY		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	391.08	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	195.54	
			For >16 To 24 Hours Usage Per Day, Add	391.08	
01 22 23 00-0648	WK		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,109.69	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	554.85	
			For >80 Hours Usage Per Week, Add	1,109.69	
01 22 23 00-0649	MO		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,639.79	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,319.90	
			For >320 Hours Usage Per Month, Add	2,639.79	
01 22 23 00-0650	DAY		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	439.96	
			Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	219.98	
			For >16 To 24 Hours Usage Per Day, Add	439.96	
01 22 23 00-0651	WK		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,173.24	
			Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	586.62	
			For >80 Hours Usage Per Week, Add	1,173.24	
01 22 23 00-0652	MO		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,933.10	
			Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,466.55	
			For >320 Hours Usage Per Month, Add	2,933.10	
01 22 23 00-0653	DAY		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	454.63	
			Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	227.32	
			For >16 To 24 Hours Usage Per Day, Add	454.63	
01 22 23 00-0654	WK		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,222.12	
			Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	611.06	
			For >80 Hours Usage Per Week, Add	1,222.12	
01 22 23 00-0655	MO		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,324.18	
			Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,662.09	
			For >320 Hours Usage Per Month, Add	3,324.18	
01 22 23 00-0656	DAY		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	513.29	
			Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	256.65	
			For >16 To 24 Hours Usage Per Day, Add	513.29	
01 22 23 00-0657	WK		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,417.66	
			Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	708.83	
			For >80 Hours Usage Per Week, Add	1,417.66	
01 22 23 00-0658	MO		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,813.03	
			Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,906.52	
			For >320 Hours Usage Per Month, Add	3,813.03	
01 22 23 00-0659	DAY		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	537.74	
			Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	268.87	
			For >16 To 24 Hours Usage Per Day, Add	537.74	
01 22 23 00-0660	WK		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,490.99	
			Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	745.50	
			For >80 Hours Usage Per Week, Add	1,490.99	
01 22 23 00-0661	MO		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,204.11	
			Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,102.06	
			For >320 Hours Usage Per Month, Add	4,204.11	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0662	DAY		150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	562.18	
			Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	281.09	
			For >16 To 24 Hours Usage Per Day, Add	562.18	
01 22 23 00-0663	WK		150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,613.20	
			Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	806.60	
			For >80 Hours Usage Per Week, Add	1,613.20	
01 22 23 00-0664	MO		150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,399.65	
			Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,199.83	
			For >320 Hours Usage Per Month, Add	4,399.65	
01 22 23 00-0665	DAY		160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	586.62	
			Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	293.31	
			For >16 To 24 Hours Usage Per Day, Add	586.62	
01 22 23 00-0666	WK		160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,710.98	
			Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	855.49	
			For >80 Hours Usage Per Week, Add	1,710.98	
01 22 23 00-0667	MO		160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,595.19	
			Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,297.60	
			For >320 Hours Usage Per Month, Add	4,595.19	
01 22 23 00-0668	DAY		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	586.62	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	293.31	
			For >16 To 24 Hours Usage Per Day, Add	586.62	
01 22 23 00-0669	WK		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,710.98	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	855.49	
			For >80 Hours Usage Per Week, Add	1,710.98	
01 22 23 00-0670	MO		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,595.19	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,297.60	
			For >320 Hours Usage Per Month, Add	4,595.19	
01 22 23 00-0671	DAY		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	806.60	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	403.30	
			For >16 To 24 Hours Usage Per Day, Add	806.60	
01 22 23 00-0672	WK		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,004.28	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,002.14	
			For >80 Hours Usage Per Week, Add	2,004.28	
01 22 23 00-0673	MO		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,866.20	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,933.10	
			For >320 Hours Usage Per Month, Add	5,866.20	
01 22 23 00-0674	DAY		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	855.49	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	427.75	
			For >16 To 24 Hours Usage Per Day, Add	855.49	
01 22 23 00-0675	WK		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,053.17	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,026.59	
			For >80 Hours Usage Per Week, Add	2,053.17	
01 22 23 00-0676	MO		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,061.74	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,030.87	
			For >320 Hours Usage Per Month, Add	6,061.74	
01 22 23 00-0677	DAY		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	904.37	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	452.19	
			For >16 To 24 Hours Usage Per Day, Add	904.37	
01 22 23 00-0678	WK		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,102.06	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,051.03	
			For >80 Hours Usage Per Week, Add	2,102.06	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0679	MO		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....6,257.28 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	3,128.64 6,257.28	
01 22 23 00-0680	DAY		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....933.70 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	466.85 933.70	
01 22 23 00-0681	WK		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,248.71 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. For >40 To 80 Hours Usage Per Week, Add For >80 Hours Usage Per Week, Add	1,124.36 2,248.71	
01 22 23 00-0682	MO		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....6,648.36 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	3,324.18 6,648.36	
01 22 23 00-0683	DAY		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....977.70 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	488.85 977.70	
01 22 23 00-0684	WK		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,542.02 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. For >40 To 80 Hours Usage Per Week, Add For >80 Hours Usage Per Week, Add	1,271.01 2,542.02	
01 22 23 00-0685	MO		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....7,332.75 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	3,666.38 7,332.75	
01 22 23 00-0686	DAY		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....1,143.91 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	571.96 1,143.91	
01 22 23 00-0687	WK		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,957.54 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. For >40 To 80 Hours Usage Per Week, Add For >80 Hours Usage Per Week, Add	1,478.77 2,957.54	
01 22 23 00-0688	MO		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....7,821.60 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	3,910.80 7,821.60	
01 22 23 00-0689	DAY		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....1,466.55 Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	733.28 1,466.55	
01 22 23 00-0690	WK		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....3,813.03 Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. For >40 To 80 Hours Usage Per Week, Add For >80 Hours Usage Per Week, Add	1,906.52 3,813.03	
01 22 23 00-0691	MO		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....8,799.30 Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	4,399.65 8,799.30	
01 22 23 00-0692	DAY		640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....1,813.63 Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	906.82 1,813.63	
01 22 23 00-0693	WK		640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....4,790.73 Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. For >40 To 80 Hours Usage Per Week, Add For >80 Hours Usage Per Week, Add	2,395.37 4,790.73	
01 22 23 00-0694	MO		640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....11,732.40 Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	5,866.20 11,732.40	
01 22 23 00-0695	DAY		750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....1,960.29 Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	980.15 1,960.29	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0696 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....4,516.97 Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 2,258.49 For >80 Hours Usage Per Week, Add 4,516.97		
01 22 23 00-0697 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....13,550.92 Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 6,775.46 For >320 Hours Usage Per Month, Add 13,550.92		
01 22 23 00-0698 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....749.17		
01 22 23 00-0699 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up 1,205.03		
01 22 23 00-0700 Cabling For Generator Sets (01 22 23 00-0620) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0701 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set 21.51		
01 22 23 00-0702 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set 37.64		
01 22 23 00-0703 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set 112.92		
01 22 23 00-0704 DAY 50', 4/0 Cable With Camlock Ends For Generator Set 10.75		
01 22 23 00-0705 WK 50', 4/0 Cable With Camlock Ends For Generator Set 31.29		
01 22 23 00-0706 MO 50', 4/0 Cable With Camlock Ends For Generator Set 87.02		
01 22 23 00-0707 Resistive Loadbanks For Generator Sets (01 22 23 00-0620) Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0728 for reimbursable fuel fees.		
01 22 23 00-0708 DAY 100 KW A/C Resistive Loadbank.....399.49		
01 22 23 00-0709 WK 100 KW A/C Resistive Loadbank.....985.97		
01 22 23 00-0710 MO 100 KW A/C Resistive Loadbank.....2,949.40		
01 22 23 00-0711 DAY 650 KW A/C Resistive Loadbank.....673.18		
01 22 23 00-0712 WK 650 KW A/C Resistive Loadbank.....1,800.24		
01 22 23 00-0713 MO 650 KW A/C Resistive Loadbank.....4,589.84		
01 22 23 00-0714 Sub-Distribution Panels (Spider Box) For Generator Sets (01 22 23 00-0620) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0715 DAY Sub-Distribution Panel (Spider Box) 52.80		
01 22 23 00-0716 WK Sub-Distribution Panel (Spider Box) 136.88		
01 22 23 00-0717 MO Sub-Distribution Panel (Spider Box) 386.19		
01 22 23 00-0718 Portable Distribution Panels For Generator Sets (01 22 23 00-0620) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0719 DAY 200 Amp Portable Spider Box Feeder Panel 117.32		
01 22 23 00-0720 WK 200 Amp Portable Spider Box Feeder Panel 317.75		
01 22 23 00-0721 MO 200 Amp Portable Spider Box Feeder Panel 889.71		
01 22 23 00-0722 DAY 100 Amp Portable Quad Box Panel 95.81		
01 22 23 00-0723 WK 100 Amp Portable Quad Box Panel 249.31		
01 22 23 00-0724 MO 100 Amp Portable Quad Box Panel 708.83		
01 22 23 00-0725 DAY 200 Amp Portable Quad Box Panel 122.21		
01 22 23 00-0726 WK 200 Amp Portable Quad Box Panel 307.98		
01 22 23 00-0727 MO 200 Amp Portable Quad Box Panel 835.93		
01 22 23 00-0728 Fuel Reimbursement For Generators (01 22 23 00-0620)		
01 22 23 00-0729 EA Fuel Reimbursement For Generators 1.00 Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0730 Generator Accessories (01 22 23 00-0620) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0731 Step Down Transformer (01 22 23 00-0730)		
01 22 23 00-0732 WK 75 KVA, 480-208 Volt, Step Down Transformer 288.42		
01 22 23 00-0733 MO 75 KVA, 480-208 Volt, Step Down Transformer 806.60		
01 22 23 00-0734 WK 150 KVA, 480-208 Volt, Step Down Transformer 462.45		
01 22 23 00-0735 MO 150 KVA, 480-208 Volt, Step Down Transformer 1,386.38		
01 22 23 00-0736 WK 225 KVA, 480-208 Volt, Step Down Transformer 615.95		
01 22 23 00-0737 MO 225 KVA, 480-208 Volt, Step Down Transformer 1,847.85		
01 22 23 00-0738 WK 500 KVA, 480-208 Volt, Step Down Transformer 733.28		
01 22 23 00-0739 MO 500 KVA, 480-208 Volt, Step Down Transformer 2,199.82		
01 22 23 00-0740 WK 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....1,095.02		
01 22 23 00-0741 MO 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....3,270.41		
01 22 23 00-0742 WK 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....1,779.41		
01 22 23 00-0743 MO 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....5,333.35		
01 22 23 00-0744 WK 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer 2,053.17		
01 22 23 00-0745 MO 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer 6,159.51		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0746 Portable Panel (01 22 23 00-0730)		
01 22 23 00-0747 WK 100 Amp Portable Panel.....	229.76	
01 22 23 00-0748 MO 100 Amp Portable Panel.....	586.62	
01 22 23 00-0749 WK 200 Amp Portable Panel.....	274.73	
01 22 23 00-0750 MO 200 Amp Portable Panel.....	733.28	
01 22 23 00-0751 WK 400 Amp Portable Panel.....	293.31	
01 22 23 00-0752 MO 400 Amp Portable Panel.....	879.93	
01 22 23 00-0753 Portable Fusible Disconnect (01 22 23 00-0730)		
01 22 23 00-0754 WK 100 - 200 Amp Portable Fusible Disconnect.....	102.66	
01 22 23 00-0755 MO 100 - 200 Amp Portable Fusible Disconnect.....	307.98	
01 22 23 00-0756 WK 300 - 400 Amp Portable Fusible Disconnect.....	205.32	
01 22 23 00-0757 MO 300 - 400 Amp Portable Fusible Disconnect.....	615.95	
01 22 23 00-0758 Portable Transfer Switch (01 22 23 00-0730)		
01 22 23 00-0759 WK 100 Amp, 480 Volt, Portable Transfer Switch.....	307.98	
01 22 23 00-0760 MO 100 Amp, 480 Volt, Portable Transfer Switch.....	923.93	
01 22 23 00-0761 WK 200 Amp, 480 Volt, Portable Transfer Switch.....	410.63	
01 22 23 00-0762 MO 200 Amp, 480 Volt, Portable Transfer Switch.....	1,231.90	
01 22 23 00-0763 WK 400 Amp, 480 Volt, Portable Transfer Switch.....	513.29	
01 22 23 00-0764 MO 400 Amp, 480 Volt, Portable Transfer Switch.....	1,539.88	
01 22 23 00-0765 Welding Machines (01 22 23 00-0605)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0766 Diesel Powered Towable Welding Machines (01 22 23 00-0765)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0767 DAY 250 To 299 AMP, Diesel Powered Towable Welding Machine.....	118.03	
01 22 23 00-0768 WK 250 To 299 AMP, Diesel Powered Towable Welding Machine.....	288.51	
01 22 23 00-0769 MO 250 To 299 AMP, Diesel Powered Towable Welding Machine.....	688.48	
01 22 23 00-0770 DAY 300 To 349 AMP, Diesel Powered Towable Welding Machine.....	157.37	
01 22 23 00-0771 WK 300 To 349 AMP, Diesel Powered Towable Welding Machine.....	308.18	
01 22 23 00-0772 MO 300 To 349 AMP, Diesel Powered Towable Welding Machine.....	719.96	
01 22 23 00-0773 DAY 350 To 399 AMP, Diesel Powered Towable Welding Machine.....	163.92	
01 22 23 00-0774 WK 350 To 399 AMP, Diesel Powered Towable Welding Machine.....	327.85	
01 22 23 00-0775 MO 350 To 399 AMP, Diesel Powered Towable Welding Machine.....	799.95	
01 22 23 00-0776 General Equipment (01 22 23)		
01 22 23 00-0777 Jacks And Bracing (01 22 23 00-0776)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0778 Manual Hydraulic Jacks (01 22 23 00-0777)		
01 22 23 00-0779 DAY 12 Ton Manual Hydraulic Bottle Jack.....	1.16	
01 22 23 00-0780 WK 12 Ton Manual Hydraulic Bottle Jack.....	5.50	
01 22 23 00-0781 MO 12 Ton Manual Hydraulic Bottle Jack.....	19.78	
01 22 23 00-0782 DAY 20 Ton Manual Hydraulic Bottle Jack.....	2.02	
01 22 23 00-0783 WK 20 Ton Manual Hydraulic Bottle Jack.....	6.37	
01 22 23 00-0784 MO 20 Ton Manual Hydraulic Bottle Jack.....	24.12	
01 22 23 00-0785 DAY 50 Ton Manual Hydraulic Bottle Jack.....	7.24	
01 22 23 00-0786 WK 50 Ton Manual Hydraulic Bottle Jack.....	28.10	
01 22 23 00-0787 MO 50 Ton Manual Hydraulic Bottle Jack.....	101.09	
01 22 23 00-0788 DAY 100 Ton Manual Hydraulic Bottle Jack.....	10.14	
01 22 23 00-0789 WK 100 Ton Manual Hydraulic Bottle Jack.....	40.55	
01 22 23 00-0790 MO 100 Ton Manual Hydraulic Bottle Jack.....	146.06	
01 22 23 00-0791 Manual Screw Jacks (01 22 23 00-0777)		
01 22 23 00-0792 DAY 10 To 20 Ton Manual Screw Jack.....	15.04	
01 22 23 00-0793 WK 10 To 20 Ton Manual Screw Jack.....	40.49	
01 22 23 00-0794 MO 10 To 20 Ton Manual Screw Jack.....	112.21	
01 22 23 00-0795 Pressure Washers (01 22 23 00-0776)		
Note: Includes full-time operator, delivery, set-up, and removal.		
01 22 23 00-0796 DAY 2,000 PSI Pressure Washer With Full-Time Operator.....	626.09	
<i>For Equipment Without Operator, Deduct</i>		
	-540.69	
01 22 23 00-0797 WK 2,000 PSI Pressure Washer With Full-Time Operator.....	2,920.22	
<i>For Equipment Without Operator, Deduct</i>		
	-2,703.44	
01 22 23 00-0798 MO 2,000 PSI Pressure Washer With Full-Time Operator.....	12,204.54	
<i>For Equipment Without Operator, Deduct</i>		
	-11,652.74	
01 22 23 00-0799 DAY 2,500 PSI Pressure Washer With Full-Time Operator.....	626.09	
<i>For Equipment Without Operator, Deduct</i>		
	-540.69	
01 22 23 00-0800 WK 2,500 PSI Pressure Washer With Full-Time Operator.....	2,920.22	
<i>For Equipment Without Operator, Deduct</i>		
	-2,703.44	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0801	MO		2,500 PSI Pressure Washer With Full-Time Operator	12,204.54	
			For Equipment Without Operator, Deduct	-11,652.74	
01 22 23 00-0802	DAY		3,000 PSI Pressure Washer With Full-Time Operator	626.09	
			For Equipment Without Operator, Deduct	-540.69	
01 22 23 00-0803	WK		3,000 PSI Pressure Washer With Full-Time Operator	2,920.22	
			For Equipment Without Operator, Deduct	-2,703.44	
01 22 23 00-0804	MO		3,000 PSI Pressure Washer With Full-Time Operator	12,204.54	
			For Equipment Without Operator, Deduct	-11,652.74	
01 22 23 00-0805	DAY		3,500 PSI Pressure Washer With Full-Time Operator	632.66	
			For Equipment Without Operator, Deduct	-540.69	
01 22 23 00-0806	WK		3,500 PSI Pressure Washer With Full-Time Operator	2,939.92	
			For Equipment Without Operator, Deduct	-2,703.44	
01 22 23 00-0807	MO		3,500 PSI Pressure Washer With Full-Time Operator	12,257.09	
			For Equipment Without Operator, Deduct	-11,652.74	
01 22 23 00-0808	DAY		4,000 PSI Pressure Washer With Full-Time Operator	658.93	
			For Equipment Without Operator, Deduct	-540.69	
01 22 23 00-0809	WK		4,000 PSI Pressure Washer With Full-Time Operator	3,025.32	
			For Equipment Without Operator, Deduct	-2,703.44	
01 22 23 00-0810	MO		4,000 PSI Pressure Washer With Full-Time Operator	12,552.69	
			For Equipment Without Operator, Deduct	-11,652.74	
01 22 23 00-0811	DAY		5,000 PSI Pressure Washer With Full-Time Operator	672.07	
			For Equipment Without Operator, Deduct	-540.69	
01 22 23 00-0812	WK		5,000 PSI Pressure Washer With Full-Time Operator	3,058.17	
			For Equipment Without Operator, Deduct	-2,703.44	
01 22 23 00-0813	MO		5,000 PSI Pressure Washer With Full-Time Operator	12,651.23	
			For Equipment Without Operator, Deduct	-11,652.74	
01 22 23 00-0814 Confined Space Entry Equipment (01 22 23 00-0776)					
			Note: Includes delivery, set-up, and removal.		
01 22 23 00-0815	DAY		Ventilation Equipment For Confined Space	45.24	
			Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0816	WK		Ventilation Equipment For Confined Space	135.71	
			Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0817	MO		Ventilation Equipment For Confined Space	404.99	
			Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0818	DAY		Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	35.18	
01 22 23 00-0819	WK		Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	105.54	
01 22 23 00-0820	MO		Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	316.63	
01 22 23 00-0821	DAY		Confined Space Air Monitor Personnel	672.09	
			Note: Per person day.		
01 22 23 00-0822 Mowers (01 22 23 00-0776)					
			Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0823	DAY		21" Walk Behind Lawn Mower	51.45	
01 22 23 00-0824	WK		21" Walk Behind Lawn Mower	147.91	
01 22 23 00-0825	MO		21" Walk Behind Lawn Mower	302.26	
01 22 23 00-0826	DAY		32" Walk Behind Lawn Mower	64.31	
01 22 23 00-0827	WK		32" Walk Behind Lawn Mower	154.34	
01 22 23 00-0828	MO		32" Walk Behind Lawn Mower	321.55	
01 22 23 00-0829	DAY		36" To 48" Walk Behind Deck Mower	115.76	
01 22 23 00-0830	WK		36" To 48" Walk Behind Deck Mower	321.55	
01 22 23 00-0831	MO		36" To 48" Walk Behind Deck Mower	932.50	
01 22 23 00-0832	DAY		61" To 72" Walk Behind Deck Mower	115.76	
01 22 23 00-0833	WK		61" To 72" Walk Behind Deck Mower	321.55	
01 22 23 00-0834	MO		61" To 72" Walk Behind Deck Mower	932.50	
01 22 23 00-0835 Material Handling Equipment (01 22 23)					
01 22 23 00-0836 Truck Mounted Hydraulic Cranes (01 22 23 00-0835)					
			Note: Includes full-time operator. Include delivery, set-up, and removal time in rental period.		
01 22 23 00-0837	DAY		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,085.11	
			For Equipment Without Operator, Deduct	-716.18	
01 22 23 00-0838	WK		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,698.54	
			For Equipment Without Operator, Deduct	-3,580.89	
01 22 23 00-0839	MO		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	18,798.69	
			For Equipment Without Operator, Deduct	-15,434.88	
01 22 23 00-0840	DAY		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,182.77	
			For Equipment Without Operator, Deduct	-716.18	
01 22 23 00-0841	WK		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,988.81	
			For Equipment Without Operator, Deduct	-3,580.89	
01 22 23 00-0842	MO		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	19,666.77	
			For Equipment Without Operator, Deduct	-15,434.88	
01 22 23 00-0843	DAY		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,280.43	
			For Equipment Without Operator, Deduct	-716.18	
01 22 23 00-0844	WK		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,279.07	
			For Equipment Without Operator, Deduct	-3,580.89	
01 22 23 00-0845	MO		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	20,534.85	
			For Equipment Without Operator, Deduct	-15,434.88	
01 22 23 00-0846	DAY		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,410.64	
			For Equipment Without Operator, Deduct	-716.18	

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01 22 23 00-0847 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,669.71 -3,580.89	
01 22 23 00-0848 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,701.33 -15,434.88	
01 22 23 00-0849 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,530.00 -716.18	
01 22 23 00-0850 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,478.11 -3,580.89	
01 22 23 00-0851 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	24,124.36 -15,434.88	
01 22 23 00-0852 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,812.13 -716.18	
01 22 23 00-0853 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,487.25 -3,580.89	
01 22 23 00-0854 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	27,153.96 -15,434.88	
01 22 23 00-0855 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,991.17 -716.18	
01 22 23 00-0856 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,116.61 -3,580.89	
01 22 23 00-0857 MO 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,046.37 -15,434.88	
01 22 23 00-0858 DAY 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,132.24 -716.18	
01 22 23 00-0859 WK 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,626.61 -3,580.89	
01 22 23 00-0860 MO 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	30,574.20 -15,434.88	
01 22 23 00-0861 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,273.30 -716.18	
01 22 23 00-0862 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,136.60 -3,580.89	
01 22 23 00-0863 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	32,102.02 -15,434.88	
01 22 23 00-0864 DAY 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,365.53 -716.18	
01 22 23 00-0865 WK 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,451.28 -3,580.89	
01 22 23 00-0866 MO 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,056.90 -15,434.88	
01 22 23 00-0867 DAY 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,486.42 -712.28	
01 22 23 00-0868 WK 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,898.36 -3,561.38	
01 22 23 00-0869 MO 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	34,361.71 -15,350.76	
01 22 23 00-0870 Cable Controlled Lattice Boom, Truck Mounted Mechanical Cranes (01 22 23 00-0835) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0871 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,018.30 -716.18	
01 22 23 00-0872 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,225.12 -3,580.89	
01 22 23 00-0873 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,367.56 -15,434.88	
01 22 23 00-0874 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,022.02 -716.18	
01 22 23 00-0875 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,896.17 -3,580.89	
01 22 23 00-0876 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	34,380.73 -15,434.88	
01 22 23 00-0877 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,184.78 -716.18	
01 22 23 00-0878 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,084.36 -3,580.89	
01 22 23 00-0879 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	37,944.19 -15,434.88	
01 22 23 00-0880 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,510.31 -716.18	
01 22 23 00-0881 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,272.54 -3,580.89	
01 22 23 00-0882 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	41,503.32 -15,434.88	
01 22 23 00-0883 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,819.57 -716.18	
01 22 23 00-0884 WK 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,648.91 -3,580.89	
01 22 23 00-0885 MO 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	48,638.94 -15,434.88	
01 22 23 00-0886 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,329.56 -716.18	
01 22 23 00-0887 WK 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	16,477.30 -3,580.89	



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01 22 23 00-0888 MO 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	54,116.52	
For Equipment Without Operator, Deduct	-15,434.88	
01 22 23 00-0889 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	7,465.50	
For Equipment Without Operator, Deduct	-716.18	
01 22 23 00-0890 WK 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	27,653.83	
For Equipment Without Operator, Deduct	-3,580.89	
01 22 23 00-0891 MO 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	87,659.14	
For Equipment Without Operator, Deduct	-15,434.88	
01 22 23 00-0892 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0835)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0893 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	988.93	
For Equipment Without Operator, Deduct	-672.09	
01 22 23 00-0894 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	4,135.87	
For Equipment Without Operator, Deduct	-3,360.44	
01 22 23 00-0895 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	16,152.24	
For Equipment Without Operator, Deduct	-14,484.64	
01 22 23 00-0896 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,022.29	
For Equipment Without Operator, Deduct	-672.09	
01 22 23 00-0897 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	4,210.92	
For Equipment Without Operator, Deduct	-3,360.44	
01 22 23 00-0898 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	16,319.00	
For Equipment Without Operator, Deduct	-14,484.64	
01 22 23 00-0899 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,013.95	
For Equipment Without Operator, Deduct	-672.09	
01 22 23 00-0900 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	4,248.44	
For Equipment Without Operator, Deduct	-3,360.44	
01 22 23 00-0901 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	16,569.14	
For Equipment Without Operator, Deduct	-14,484.64	
01 22 23 00-0902 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,109.83	
For Equipment Without Operator, Deduct	-672.09	
01 22 23 00-0903 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	4,498.58	
For Equipment Without Operator, Deduct	-3,360.44	
01 22 23 00-0904 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	17,152.80	
For Equipment Without Operator, Deduct	-14,484.64	
01 22 23 00-0905 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0835)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0906 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	878.04	
For Equipment Without Operator, Deduct	-672.09	
For Propane Instead Of Gas Or Diesel, Add	41.19	
01 22 23 00-0907 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	3,922.84	
For Equipment Without Operator, Deduct	-3,360.44	
For Propane Instead Of Gas Or Diesel, Add	112.48	
01 22 23 00-0908 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	15,771.82	
For Equipment Without Operator, Deduct	-14,484.64	
For Propane Instead Of Gas Or Diesel, Add	257.44	
01 22 23 00-0909 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	888.88	
For Equipment Without Operator, Deduct	-672.09	
For Propane Instead Of Gas Or Diesel, Add	43.36	
01 22 23 00-0910 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	3,952.44	
For Equipment Without Operator, Deduct	-3,360.44	
For Propane Instead Of Gas Or Diesel, Add	118.40	
01 22 23 00-0911 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	15,839.56	
For Equipment Without Operator, Deduct	-14,484.64	
For Propane Instead Of Gas Or Diesel, Add	270.98	
01 22 23 00-0912 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	947.24	
For Equipment Without Operator, Deduct	-672.09	
For Propane Instead Of Gas Or Diesel, Add	55.03	
01 22 23 00-0913 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	4,115.03	
For Equipment Without Operator, Deduct	-3,360.44	
For Propane Instead Of Gas Or Diesel, Add	150.92	
01 22 23 00-0914 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	16,214.78	
For Equipment Without Operator, Deduct	-14,484.64	
For Propane Instead Of Gas Or Diesel, Add	346.03	
01 22 23 00-0915 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	979.39	
For Equipment Without Operator, Deduct	-672.09	
For Propane Instead Of Gas Or Diesel, Add	61.46	
01 22 23 00-0916 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	4,101.10	
For Equipment Without Operator, Deduct	-3,360.44	
For Propane Instead Of Gas Or Diesel, Add	148.13	
01 22 23 00-0917 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	16,328.42	
For Equipment Without Operator, Deduct	-14,484.64	
For Propane Instead Of Gas Or Diesel, Add	368.76	
01 22 23 00-0918 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0835)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0919 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	847.19	
For Equipment Without Operator, Deduct	-672.09	
For Propane Instead Of Gas Or Diesel, Add	35.02	

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01 22 23 00-0920 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	3,760.66	
For Equipment Without Operator, Deduct	-3,360.44	
For Propane Instead Of Gas Or Diesel, Add	80.04	
01 22 23 00-0921 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	15,443.51	
For Equipment Without Operator, Deduct	-14,484.64	
For Propane Instead Of Gas Or Diesel, Add	191.77	
01 22 23 00-0922 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	851.36	
For Equipment Without Operator, Deduct	-672.09	
For Propane Instead Of Gas Or Diesel, Add	35.85	
01 22 23 00-0923 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	3,773.17	
For Equipment Without Operator, Deduct	-3,360.44	
For Propane Instead Of Gas Or Diesel, Add	82.55	
01 22 23 00-0924 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	15,472.69	
For Equipment Without Operator, Deduct	-14,484.64	
For Propane Instead Of Gas Or Diesel, Add	197.61	
01 22 23 00-0925 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	938.91	
For Equipment Without Operator, Deduct	-672.09	
For Propane Instead Of Gas Or Diesel, Add	53.36	
01 22 23 00-0926 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	3,964.94	
For Equipment Without Operator, Deduct	-3,360.44	
For Propane Instead Of Gas Or Diesel, Add	120.90	
01 22 23 00-0927 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	15,943.79	
For Equipment Without Operator, Deduct	-14,484.64	
For Propane Instead Of Gas Or Diesel, Add	291.83	
01 22 23 00-0928 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	947.24	
For Equipment Without Operator, Deduct	-672.09	
For Propane Instead Of Gas Or Diesel, Add	55.03	
01 22 23 00-0929 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	4,035.82	
For Equipment Without Operator, Deduct	-3,360.44	
For Propane Instead Of Gas Or Diesel, Add	135.08	
01 22 23 00-0930 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	16,193.93	
For Equipment Without Operator, Deduct	-14,484.64	
For Propane Instead Of Gas Or Diesel, Add	341.86	
01 22 23 00-0931 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,022.29	
For Equipment Without Operator, Deduct	-672.09	
For Propane Instead Of Gas Or Diesel, Add	70.04	
01 22 23 00-0932 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	4,156.72	
For Equipment Without Operator, Deduct	-3,360.44	
For Propane Instead Of Gas Or Diesel, Add	159.26	
01 22 23 00-0933 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	16,402.38	
For Equipment Without Operator, Deduct	-14,484.64	
For Propane Instead Of Gas Or Diesel, Add	383.55	

01 22 23 00-0934**Chain Hoists**

(01 22 23 00-0835)

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

01 22 23 00-0935 DAY 1 Ton, 20' Lift, Manual Chain Hoist	1.52	
01 22 23 00-0936 WK 1 Ton, 20' Lift, Manual Chain Hoist	6.08	
01 22 23 00-0937 MO 1 Ton, 20' Lift, Manual Chain Hoist	20.32	
01 22 23 00-0938 DAY 3 Ton, 20' Lift, Manual Chain Hoist	2.89	
01 22 23 00-0939 WK 3 Ton, 20' Lift, Manual Chain Hoist	9.85	
01 22 23 00-0940 MO 3 Ton, 20' Lift, Manual Chain Hoist	36.54	
01 22 23 00-0941 DAY 5 Ton, 20' Lift, Manual Chain Hoist	3.76	
01 22 23 00-0942 WK 5 Ton, 20' Lift, Manual Chain Hoist	13.33	
01 22 23 00-0943 MO 5 Ton, 20' Lift, Manual Chain Hoist	49.57	
01 22 23 00-0944 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	40.26	
01 22 23 00-0945 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	161.08	
01 22 23 00-0946 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	581.99	
01 22 23 00-0947 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	45.19	
01 22 23 00-0948 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	179.91	
01 22 23 00-0949 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	646.12	
01 22 23 00-0950 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	47.80	
01 22 23 00-0951 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	192.07	
01 22 23 00-0952 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	684.61	

01 22 23 00-0953**Pumping Equipment**

(01 22 23)

01 22 23 00-0954**Gas Powered Portable Centrifugal Pumps**

(01 22 23 00-0953)

Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-0978 for larger diameter pumps.

01 22 23 00-0955 DAY 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	59.29	
01 22 23 00-0956 WK 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	133.41	
01 22 23 00-0957 MO 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	355.75	
01 22 23 00-0958 DAY 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	71.15	
01 22 23 00-0959 WK 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	160.09	
01 22 23 00-0960 MO 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	426.90	

01 22 23 00-0961**Gas Powered Portable Diaphragm Pumps**

(01 22 23 00-0953)

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

01 22 23 00-0962 DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	68.19	
01 22 23 00-0963 WK 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	192.70	
01 22 23 00-0964 MO 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	489.16	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0965	DAY		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	83.01	
01 22 23 00-0966	WK		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	222.34	
01 22 23 00-0967	MO		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	629.98	
01 22 23 00-0968 Gas Powered Portable Trash Pumps (01 22 23 00-0953)					
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-0969	DAY		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	85.97	
01 22 23 00-0970	WK		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	177.88	
01 22 23 00-0971	MO		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	533.63	
01 22 23 00-0972	DAY		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	85.97	
01 22 23 00-0973	WK		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	229.76	
01 22 23 00-0974	MO		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	629.98	
01 22 23 00-0975	DAY		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	136.37	
01 22 23 00-0976	WK		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	385.40	
01 22 23 00-0977	MO		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	1,119.14	
01 22 23 00-0978 Diesel Powered Portable Trash Pumps (01 22 23 00-0953)					
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-0979	DAY		63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	266.81	
01 22 23 00-0980	WK		63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	726.33	
01 22 23 00-0981	MO		63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,164.71	
01 22 23 00-0982	DAY		156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	407.63	
01 22 23 00-0983	WK		156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,067.26	
01 22 23 00-0984	MO		156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	2,838.60	
01 22 23 00-0985	DAY		246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	554.38	
01 22 23 00-0986	WK		246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,483.78	
01 22 23 00-0987	MO		246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,969.60	
01 22 23 00-0988	DAY		379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	717.43	
01 22 23 00-0989	WK		379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	1,832.12	
01 22 23 00-0990	MO		379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	5,380.75	
01 22 23 00-0991 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0953)					
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-0992	DAY		90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	380.95	
01 22 23 00-0993	WK		90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	867.15	
01 22 23 00-0994	MO		90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,703.72	
01 22 23 00-0995	DAY		136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	466.92	
01 22 23 00-0996	WK		136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,163.61	
01 22 23 00-0997	MO		136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,164.71	
01 22 23 00-0998	DAY		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	563.27	
01 22 23 00-0999	WK		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,666.11	
01 22 23 00-1000	MO		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	4,647.01	
01 22 23 00-1001	DAY		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	847.88	
01 22 23 00-1002	WK		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,165.64	
01 22 23 00-1003	MO		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	6,359.07	
01 22 23 00-1004 3 Phase Electric Submersible Pumps (01 22 23 00-0953)					
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-1005	DAY		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	148.23	
01 22 23 00-1006	WK		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	370.58	
01 22 23 00-1007	MO		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,111.72	
01 22 23 00-1008	DAY		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	195.66	
01 22 23 00-1009	WK		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	489.16	
01 22 23 00-1010	MO		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,467.48	
01 22 23 00-1011 Suction Hose With Couplings (01 22 23 00-0953)					
Note: Includes delivery, set-up, and removal.					
01 22 23 00-1012	DAY		Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	4.46	
01 22 23 00-1013	WK		Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	11.16	
01 22 23 00-1014	MO		Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	34.22	
01 22 23 00-1015	DAY		3" Inside Diameter, 20' Length, Suction Hose With Couplings	11.90	
01 22 23 00-1016	WK		3" Inside Diameter, 20' Length, Suction Hose With Couplings	30.50	
01 22 23 00-1017	MO		3" Inside Diameter, 20' Length, Suction Hose With Couplings	93.00	
01 22 23 00-1018	DAY		4" Inside Diameter, 20' Length, Suction Hose With Couplings	17.86	
01 22 23 00-1019	WK		4" Inside Diameter, 20' Length, Suction Hose With Couplings	45.38	
01 22 23 00-1020	MO		4" Inside Diameter, 20' Length, Suction Hose With Couplings	137.64	
01 22 23 00-1021	DAY		6" Inside Diameter, 20' Length, Suction Hose With Couplings	22.32	
01 22 23 00-1022	WK		6" Inside Diameter, 20' Length, Suction Hose With Couplings	55.80	
01 22 23 00-1023	MO		6" Inside Diameter, 20' Length, Suction Hose With Couplings	163.68	
01 22 23 00-1024	DAY		10" Inside Diameter, 20' Length, Suction Hose With Couplings	52.08	
01 22 23 00-1025	WK		10" Inside Diameter, 20' Length, Suction Hose With Couplings	133.92	

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01 22 23 00-1026 MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	394.32	
01 22 23 00-1027 DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	69.94	
01 22 23 00-1028 WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	152.52	
01 22 23 00-1029 MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	457.56	
01 22 23 00-1030 Discharge Hose With Couplings (01 22 23 00-0953)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-1031 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	4.46	
01 22 23 00-1032 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	11.16	
01 22 23 00-1033 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	34.22	
01 22 23 00-1034 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	5.21	
01 22 23 00-1035 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	12.65	
01 22 23 00-1036 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	39.43	
01 22 23 00-1037 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	5.95	
01 22 23 00-1038 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	14.88	
01 22 23 00-1039 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	45.38	
01 22 23 00-1040 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	15.62	
01 22 23 00-1041 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	40.18	
01 22 23 00-1042 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	115.32	
01 22 23 00-1043 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	19.34	
01 22 23 00-1044 WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	52.82	
01 22 23 00-1045 MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	145.08	
01 22 23 00-1046 DAY 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	14.88	
01 22 23 00-1047 WK 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	37.20	
01 22 23 00-1048 MO 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	111.60	
01 22 23 00-1049 DAY 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	37.94	
01 22 23 00-1050 WK 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	96.72	
01 22 23 00-1051 MO 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	286.44	
01 22 23 00-1052 Hydraulic Submersible Pumps (01 22 23 00-0953)		
01 22 23 00-1053 Hydraulic Submersible Pumps (01 22 23 00-1052)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1054 DAY 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	97.83	
01 22 23 00-1055 WK 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	262.37	
01 22 23 00-1056 MO 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	733.74	
01 22 23 00-1057 DAY 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	124.51	
01 22 23 00-1058 WK 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	320.18	
01 22 23 00-1059 MO 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	978.32	
01 22 23 00-1060 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1052)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1061 DAY 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	226.05	
01 22 23 00-1062 WK 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	674.45	
01 22 23 00-1063 MO 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	1,778.76	
01 22 23 00-1064 HDPE Pipe With Couplings (01 22 23 00-0953)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-1065 DAY 4" x 20' HDPE Pipe With Couplings.....	6.25	
01 22 23 00-1066 WK 4" x 20' HDPE Pipe With Couplings.....	15.00	
01 22 23 00-1067 MON 4" x 20' HDPE Pipe With Couplings.....	46.25	
01 22 23 00-1068 DAY 6" x 20' HDPE Pipe With Couplings.....	10.00	
01 22 23 00-1069 WK 6" x 20' HDPE Pipe With Couplings.....	25.00	
01 22 23 00-1070 MON 6" x 20' HDPE Pipe With Couplings.....	76.25	
01 22 23 00-1071 DAY 8" x 20' HDPE Pipe With Couplings.....	16.25	
01 22 23 00-1072 WK 8" x 20' HDPE Pipe With Couplings.....	42.50	
01 22 23 00-1073 MON 8" x 20' HDPE Pipe With Couplings.....	126.25	
01 22 23 00-1074 DAY 10" x 20' HDPE Pipe With Couplings.....	20.00	
01 22 23 00-1075 WK 10" x 20' HDPE Pipe With Couplings.....	51.25	
01 22 23 00-1076 MON 10" x 20' HDPE Pipe With Couplings.....	156.25	
01 22 23 00-1077 DAY 12" x 10' HDPE Pipe With Couplings.....	15.00	
01 22 23 00-1078 WK 12" x 10' HDPE Pipe With Couplings.....	41.25	
01 22 23 00-1079 MON 12" x 10' HDPE Pipe With Couplings.....	125.00	
01 22 23 00-1080 DAY 4" Elbow For HDPE Pipe, Quick Connect.....	15.00	
01 22 23 00-1081 WK 4" Elbow For HDPE Pipe, Quick Connect.....	38.75	
01 22 23 00-1082 MON 4" Elbow For HDPE Pipe, Quick Connect.....	115.00	
01 22 23 00-1083 DAY 6" Elbow For HDPE Pipe, Quick Connect.....	17.50	
01 22 23 00-1084 WK 6" Elbow For HDPE Pipe, Quick Connect.....	45.00	
01 22 23 00-1085 MON 6" Elbow For HDPE Pipe, Quick Connect.....	137.50	
01 22 23 00-1086 DAY 8" Elbow For HDPE Pipe, Quick Connect.....	20.00	
01 22 23 00-1087 WK 8" Elbow For HDPE Pipe, Quick Connect.....	51.25	
01 22 23 00-1088 MON 8" Elbow For HDPE Pipe, Quick Connect.....	156.25	
01 22 23 00-1089 DAY 10" Elbow For HDPE Pipe, Quick Connect.....	25.00	
01 22 23 00-1090 WK 10" Elbow For HDPE Pipe, Quick Connect.....	63.75	
01 22 23 00-1091 MON 10" Elbow For HDPE Pipe, Quick Connect.....	193.75	
01 22 23 00-1092 DAY 12" Elbow For HDPE Pipe, Quick Connect.....	25.00	
01 22 23 00-1093 WK 12" Elbow For HDPE Pipe, Quick Connect.....	63.75	
01 22 23 00-1094 MON 12" Elbow For HDPE Pipe, Quick Connect.....	193.75	



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01 22 23 00-1095	DAY	4"	Tee For HDPE Pipe, Quick Connect	15.00	
01 22 23 00-1096	WK	4"	Tee For HDPE Pipe, Quick Connect	38.75	
01 22 23 00-1097	MON	4"	Tee For HDPE Pipe, Quick Connect	115.00	
01 22 23 00-1098	DAY	6"	Tee For HDPE Pipe, Quick Connect	20.00	
01 22 23 00-1099	WK	6"	Tee For HDPE Pipe, Quick Connect	51.25	
01 22 23 00-1100	MON	6"	Tee For HDPE Pipe, Quick Connect	156.25	
01 22 23 00-1101	DAY	8"	Tee For HDPE Pipe, Quick Connect	25.00	
01 22 23 00-1102	WK	8"	Tee For HDPE Pipe, Quick Connect	63.75	
01 22 23 00-1103	MON	8"	Tee For HDPE Pipe, Quick Connect	193.75	
01 22 23 00-1104	DAY	10"	Tee For HDPE Pipe, Quick Connect	30.00	
01 22 23 00-1105	WK	10"	Tee For HDPE Pipe, Quick Connect	76.25	
01 22 23 00-1106	MON	10"	Tee For HDPE Pipe, Quick Connect	231.25	
01 22 23 00-1107	DAY	12"	Tee For HDPE Pipe, Quick Connect	30.00	
01 22 23 00-1108	WK	12"	Tee For HDPE Pipe, Quick Connect	76.25	
01 22 23 00-1109	MON	12"	Tee For HDPE Pipe, Quick Connect	231.25	
01 22 23 00-1110	DAY	4"	Cap For HDPE Pipe, Quick Connect	2.50	
01 22 23 00-1111	WK	4"	Cap For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1112	MON	4"	Cap For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1113	DAY	6"	Cap For HDPE Pipe, Quick Connect	2.50	
01 22 23 00-1114	WK	6"	Cap For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1115	MON	6"	Cap For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1116	DAY	8"	Cap For HDPE Pipe, Quick Connect	2.50	
01 22 23 00-1117	WK	8"	Cap For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1118	MON	8"	Cap For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1119	DAY	10"	Cap For HDPE Pipe, Quick Connect	2.50	
01 22 23 00-1120	WK	10"	Cap For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1121	MON	10"	Cap For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1122	DAY	12"	Cap For HDPE Pipe, Quick Connect	2.50	
01 22 23 00-1123	WK	12"	Cap For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1124	MON	12"	Cap For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1125	DAY	4"	Wye For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1126	WK	4"	Wye For HDPE Pipe, Quick Connect	18.75	
01 22 23 00-1127	MON	4"	Wye For HDPE Pipe, Quick Connect	57.50	
01 22 23 00-1128	DAY	6"	Wye For HDPE Pipe, Quick Connect	8.75	
01 22 23 00-1129	WK	6"	Wye For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1130	MON	6"	Wye For HDPE Pipe, Quick Connect	68.75	
01 22 23 00-1131	DAY	8"	Wye For HDPE Pipe, Quick Connect	15.00	
01 22 23 00-1132	WK	8"	Wye For HDPE Pipe, Quick Connect	38.75	
01 22 23 00-1133	MON	8"	Wye For HDPE Pipe, Quick Connect	115.00	
01 22 23 00-1134	DAY	10"	Wye For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1135	WK	10"	Wye For HDPE Pipe, Quick Connect	57.50	
01 22 23 00-1136	MON	10"	Wye For HDPE Pipe, Quick Connect	175.00	
01 22 23 00-1137	DAY	12"	Wye For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1138	WK	12"	Wye For HDPE Pipe, Quick Connect	57.50	
01 22 23 00-1139	MON	12"	Wye For HDPE Pipe, Quick Connect	175.00	
01 22 23 00-1140	Truck And Trailer Equipment (01 22 23)				
01 22 23 00-1141	Trucks (01 22 23 00-1140)				
	Note: Includes full-time driver, delivery, and removal.				
01 22 23 00-1142	Flat Bed Trucks (01 22 23 00-1141)				
	Note: Includes hydraulic tilt bed.				
01 22 23 00-1143	DAY	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	797.79		
	For Equipment Without Operator, Deduct			-583.10	
01 22 23 00-1144	WK	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,478.35		
	For Equipment Without Operator, Deduct			-2,915.51	
01 22 23 00-1145	MO	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	13,988.45		
	For Equipment Without Operator, Deduct			-12,566.84	
01 22 23 00-1146	DAY	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	890.63		
	For Equipment Without Operator, Deduct			-583.10	
01 22 23 00-1147	WK	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,716.25		
	For Equipment Without Operator, Deduct			-2,915.51	
01 22 23 00-1148	MO	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	14,597.72		
	For Equipment Without Operator, Deduct			-12,566.84	
01 22 23 00-1149	DAY	6-1/2 Ton Capacity, 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	957.25		
	For Equipment Without Operator, Deduct			-583.10	
01 22 23 00-1150	WK	6-1/2 Ton Capacity, 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,970.87		
	For Equipment Without Operator, Deduct			-2,915.51	
01 22 23 00-1151	MO	6-1/2 Ton Capacity, 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	15,566.76		
	For Equipment Without Operator, Deduct			-12,566.87	
01 22 23 00-1152	Light Off-Road Utility Passanger Vehicles (01 22 23 00-1141)				
	Note: Excludes operator				
01 22 23 00-1153	DAY	4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	160.00		
01 22 23 00-1154	WK	4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	370.00		
01 22 23 00-1155	MO	4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	800.00		
01 22 23 00-1156	DAY	4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	165.00		
01 22 23 00-1157	WK	4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	385.00		
01 22 23 00-1158	MO	4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	850.00		

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-1159 Light Duty Trucks (01 22 23 00-1141)

01 22 23 00-1160	DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	801.55
	<i>For Equipment Without Operator, Deduct</i>	-583.10
01 22 23 00-1161	WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	3,632.29
	<i>For Equipment Without Operator, Deduct</i>	-2,915.51
01 22 23 00-1162	MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	14,068.67
	<i>For Equipment Without Operator, Deduct</i>	-12,566.84
01 22 23 00-1163	DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	842.51
	<i>For Equipment Without Operator, Deduct</i>	-583.10
01 22 23 00-1164	WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	3,755.17
	<i>For Equipment Without Operator, Deduct</i>	-2,915.51
01 22 23 00-1165	MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	14,341.73
	<i>For Equipment Without Operator, Deduct</i>	-12,566.84

01 22 23 00-1166 Boom Trucks (01 22 23 00-1141)

01 22 23 00-1167	DAY 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	982.89
	<i>For Equipment Without Operator, Deduct</i>	-583.10
01 22 23 00-1168	WK 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	3,956.48
	<i>For Equipment Without Operator, Deduct</i>	-2,915.51
01 22 23 00-1169	MO 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	15,206.98
	<i>For Equipment Without Operator, Deduct</i>	-12,566.84

01 22 23 00-1170 Rear Dump Trucks (01 22 23 00-1141)

01 22 23 00-1171	DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver	873.38
	<i>For Equipment Without Operator, Deduct</i>	-576.44
01 22 23 00-1172	WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver	3,666.53
	<i>For Equipment Without Operator, Deduct</i>	-2,882.22
01 22 23 00-1173	MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver	14,824.71
	<i>For Equipment Without Operator, Deduct</i>	-12,423.38
01 22 23 00-1174	DAY 4 CY Rear Dump Truck With Full-Time Truck Driver	978.48
	<i>For Equipment Without Operator, Deduct</i>	-583.10
01 22 23 00-1175	WK 4 CY Rear Dump Truck With Full-Time Truck Driver	4,004.83
	<i>For Equipment Without Operator, Deduct</i>	-2,915.51
01 22 23 00-1176	MO 4 CY Rear Dump Truck With Full-Time Truck Driver	15,390.99
	<i>For Equipment Without Operator, Deduct</i>	-12,566.84
01 22 23 00-1177	DAY 6 CY Rear Dump Truck With Full-Time Truck Driver	1,034.96
	<i>For Equipment Without Operator, Deduct</i>	-583.10
01 22 23 00-1178	WK 6 CY Rear Dump Truck With Full-Time Truck Driver	4,125.86
	<i>For Equipment Without Operator, Deduct</i>	-2,915.51
01 22 23 00-1179	MO 6 CY Rear Dump Truck With Full-Time Truck Driver	15,471.68
	<i>For Equipment Without Operator, Deduct</i>	-12,566.84
01 22 23 00-1180	DAY 13 CY Rear Dump Truck With Full-Time Truck Driver	1,704.69
	<i>For Equipment Without Operator, Deduct</i>	-583.10
01 22 23 00-1181	WK 13 CY Rear Dump Truck With Full-Time Truck Driver	5,505.66
	<i>For Equipment Without Operator, Deduct</i>	-2,915.51
01 22 23 00-1182	MO 13 CY Rear Dump Truck With Full-Time Truck Driver	19,344.80
	<i>For Equipment Without Operator, Deduct</i>	-12,566.84
01 22 23 00-1183	DAY 18 CY Rear Dump Truck With Full-Time Truck Driver	1,816.85
	<i>For Equipment Without Operator, Deduct</i>	-583.10
01 22 23 00-1184	WK 18 CY Rear Dump Truck With Full-Time Truck Driver	5,764.67
	<i>For Equipment Without Operator, Deduct</i>	-2,915.51
01 22 23 00-1185	MO 18 CY Rear Dump Truck With Full-Time Truck Driver	20,022.60
	<i>For Equipment Without Operator, Deduct</i>	-12,566.84

01 22 23 00-1186 Under-Bridge Inspection Trucks (01 22 23 00-1141)

01 22 23 00-1187	DAY 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	2,101.78
01 22 23 00-1188	WK 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	9,372.82
01 22 23 00-1189	MO 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	33,239.10
01 22 23 00-1190	DAY 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	2,385.81
01 22 23 00-1191	WK 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	9,940.88
01 22 23 00-1192	MO 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	35,383.56
01 22 23 00-1193	DAY 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	2,556.22
01 22 23 00-1194	WK 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	10,792.95
01 22 23 00-1195	MO 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	37,528.02
01 22 23 00-1196	DAY 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	3,294.69
01 22 23 00-1197	WK 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	14,201.25
01 22 23 00-1198	MO 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	48,250.31

01 22 23 00-1199 Vacuum Trucks (01 22 23 00-1141)

01 22 23 00-1200	DAY 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	858.12
	<i>For Equipment Without Operator, Deduct</i>	-583.10
01 22 23 00-1201	WK 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	3,735.17
	<i>For Equipment Without Operator, Deduct</i>	-2,915.51
01 22 23 00-1202	MO 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	14,988.07
	<i>For Equipment Without Operator, Deduct</i>	-12,566.84



General Requirements			01
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1203 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,696.62 -583.10	
01 22 23 00-1204 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	6,268.99 -2,915.51	
01 22 23 00-1205 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	22,462.66 -12,566.84	
01 22 23 00-1206 Water Trucks (01 22 23 00-1141) See CSI section 01 22 23 00-1229 for water trailer, 31 23 23 23-0001 for compaction water as required for earth/aggregate backfill.		
01 22 23 00-1207 DAY 2,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	1,068.42 -583.10 2.55	
01 22 23 00-1208 WK 2,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	4,193.53 -2,915.51 2.55	
01 22 23 00-1209 MO 2,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	15,586.64 -12,566.84 2.55	
01 22 23 00-1210 DAY 2,500 To 3,000 Gal Water Truck With Full-Time Operator For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	1,154.70 -583.10 2.55	
01 22 23 00-1211 WK 2,500 To 3,000 Gal Water Truck With Full-Time Operator For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	4,792.10 -2,915.51 2.55	
01 22 23 00-1212 MO 2,500 To 3,000 Gal Water Truck With Full-Time Operator For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	17,242.14 -12,566.84 2.55	
01 22 23 00-1213 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	1,305.70 -583.10 2.55	
01 22 23 00-1214 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	4,905.34 -2,915.51 2.55	
01 22 23 00-1215 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	17,420.09 -12,566.84 2.55	
01 22 23 00-1216 Asphalt Distribution Trucks (01 22 23 00-1141)		
01 22 23 00-1217 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,577.65 -583.10	
01 22 23 00-1218 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	5,886.39 -2,915.51	
01 22 23 00-1219 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	21,349.50 -12,566.84	
01 22 23 00-1220 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board (01 22 23 00-1141)		
01 22 23 00-1221 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion, Arrow Board With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,437.56 -576.44	
01 22 23 00-1222 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver For Equipment Without Operator, Deduct	4,607.18 -2,882.22	
01 22 23 00-1223 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver For Equipment Without Operator, Deduct	16,612.39 -12,423.40	
01 22 23 00-1224 Vacuum Sweeper Trucks For Bridge Decks (01 22 23 00-1141)		
01 22 23 00-1225 DAY Vacuum Sweeper Truck, With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,696.62 -583.10	
01 22 23 00-1226 WK Vacuum Sweeper Truck, With Full-Time Truck Driver For Equipment Without Operator, Deduct	6,268.99 -2,915.51	
01 22 23 00-1227 MO Vacuum Sweeper Truck, With Full-Time Truck Driver For Equipment Without Operator, Deduct	22,462.66 -12,566.84	
01 22 23 00-1228 Trailers (01 22 23 00-1140) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1229 Water Trailers With Pump (01 22 23 00-1228)		
01 22 23 00-1230 DAY 500 To 600 Gallon Water Trailer With Pump 01 22 23 00-1231 WK 500 To 600 Gallon Water Trailer With Pump 01 22 23 00-1232 MO 500 To 600 Gallon Water Trailer With Pump	124.03 318.16 852.02	

01 30 Administrative Requirements (01)

01 32 Construction Progress Documentation (01 30)

01	General Requirements
01 30	Administrative Requirements
01 32	Construction Progress Documentation



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 32 33 Photographic Documentation (01 32)

01 32 33 00-0001 Aerial Survey And Photography (01 32 33)

Note: Cost per single location, 15 to 20 photos, up to 6 proofs developed, pictures 8" x 10" or 8-1/2" x 11".

01 32 33 00-0002	EA	Aerial Photography, 1 Site Within City, 15-20 Photos, 6 Proofs.....	1,368.75
		For Each Additional City Location, 15-20 Photos, 6 Proofs, Add	175.00
		For Each Mile Outside The City Area, Add	3.00
		For Color Prints Instead Of Black And White, Add	410.63
01 32 33 00-0003	EA	5 Minute Aerial Video With 3 Tapes And 11 x 14 Still Photograph	1,525.42
		For Each Additional City Location, 15-20 Photos, 6 Proofs, Add	175.00
		For Each Mile Outside The City Area, Add	3.00
01 32 33 00-0004	HR	Aerial Tour Of Project Site Up To 3 Passengers (Helicopter)	1,030.69

01 40 Quality Requirements (01)

01 45 Quality Control (01 40)

01 45 23 Testing And Inspecting Services (01 45)

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

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

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

01 45 23 00-0003	EA	Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	188.26
01 45 23 00-0004	EA	4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	267.21
01 45 23 00-0005	EA	6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	303.65
01 45 23 00-0006	EA	Resistance (R) Value Soils Test, CA 301, Field Soils Test	242.92
01 45 23 00-0007	EA	Soils Classification Test, ASTM D-2487, Field Soils Test	364.38
01 45 23 00-0008	SET	Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....	728.51
01 45 23 00-0009	EA	Moisture Content, Field Soils Test	27.32
01 45 23 00-0010	EA	UBC Or Swell Test, Field Soils Test	95.71
01 45 23 00-0011	EA	Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test	182.13
01 45 23 00-0012	EA	Proctor Compaction 6" Standard Mold, Field Soils Test	227.66
01 45 23 00-0013	EA	Density And Classification Test, Field Soils Test	72.85
01 45 23 00-0014	EA	Percolation Test, Field Soils Test	182.13
01 45 23 00-0015	EA	Infiltration Test, Field Soils Test	364.26

01 45 23 00-0016 Soil Borings Laboratory Tests (01 45 23 00-0001)

See CSI section 02 32 13 00-0000 for soil borings.

01 45 23 00-0017	EA	Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	83.60
01 45 23 00-0018	EA	Shrinkage Limit, Soil Borings Laboratory Test	26.68
01 45 23 00-0019	EA	Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test	64.31
01 45 23 00-0020	EA	Consolidation, Soil Borings Laboratory Test	450.17
01 45 23 00-0021	EA	Swell Test, Soil Borings Laboratory Test	88.93
01 45 23 00-0022	EA	In Place Density, Soil Borings Laboratory Test	19.29
01 45 23 00-0023	EA	Moisture Content, ASTM D2216, Soil Borings Laboratory Test	11.99
01 45 23 00-0024	EA	Hydrometer Analysis, Soil Borings Laboratory Test	154.74
01 45 23 00-0025	EA	Specific Gravity, ASTM D854, Soil Borings Laboratory Test	53.96
01 45 23 00-0026	EA	Partial Sieve Analysis, Soil Borings Laboratory Test	10.67
01 45 23 00-0027	EA	Laboratory Permeability, Soil Borings Laboratory Test	533.60
01 45 23 00-0028	EA	Sieve Analysis, ASTM D422, Soil Borings Laboratory Test	107.93
01 45 23 00-0029	EA	Sulfate Soundness, Soil Borings Laboratory Test	133.40
01 45 23 00-0030	EA	Los Angeles Abrasion, Soil Borings Laboratory Test	311.04
01 45 23 00-0031	EA	California Bearing Ratio, ASTM D1883	273.28
01 45 23 00-0032	EA	Compaction Test Subgrade, Soil Borings Laboratory Test	80.04
01 45 23 00-0033	EA	Compaction Test Base Course, Soil Borings Laboratory Test	67.72
01 45 23 00-0034	EA	In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test	263.19
01 45 23 00-0035	EA	Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test	40.91

01 45 23 00-0036 Aggregate Testing (01 45 23 00-0001)

01 45 23 00-0037	EA	Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202	60.73
01 45 23 00-0038	EA	Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202	109.31
01 45 23 00-0039	EA	Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202	151.82
01 45 23 00-0040	EA	Sieve Analysis, Pit Run, ASTM C136	118.38
		Note: Includes wash.	
01 45 23 00-0041	EA	Specific Special Gravity, Course, ASTM C127	96.46
		Note: Includes absorption test.	
01 45 23 00-0042	EA	Special Gravity, Fine, ASTM C127	86.51
		Note: Includes absorption test.	
01 45 23 00-0043	EA	Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	128.62
01 45 23 00-0044	EA	Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	121.46
01 45 23 00-0045	EA	Aggregate Cleanliness Value, ASTM C-128, CA 227	121.46
01 45 23 00-0046	EA	Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217	91.10
01 45 23 00-0047	EA	Fine Aggregate Durability Index, CA 229	97.17
01 45 23 00-0048	EA	Sodium And Magnesium Soundness, ASTM C88	254.98
01 45 23 00-0049	EA	Los Angeles Rattler, ASTM C-131, CA 211	194.34
01 45 23 00-0050	EA	Los Angeles Rattler, ASTM C-535	194.34
01 45 23 00-0051	EA	Unit Weight Of Aggregates, ASTM C29	54.66



General Requirements			01
Quality Requirements			01 40
Quality Control			01 45

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0052 EA Organic Impurities In Sand, ASTM C40.....	54.64	
01 45 23 00-0053 EA Crushed Particle, ASTM California Test Method	54.64	
01 45 23 00-0054 EA Clay Lump And Friable Particles, ASTM C142	109.28	
01 45 23 00-0055 Permeability Tests (01 45 23 00-0001)		
01 45 23 00-0056 In-Place Tests (01 45 23 00-0055)		
01 45 23 00-0057 EA Double Ring Infiltrometer Test, ASTM D3385.....	964.65	
01 45 23 00-0058 EA Unconfined Compressive Strength (Pocket Penetrometer) Test	45.53	
01 45 23 00-0059 Lab Tests (01 45 23 00-0055)		
01 45 23 00-0060 EA Falling Head Rigid Wall Consolidometer Technique CAE	450.17	
01 45 23 00-0061 EA Falling Head Permeability Test EPA-9100.....	450.17	
01 45 23 00-0062 EA Constant Head Permeability Test For Granular Soils, ASTM D2432	257.24	
01 45 23 00-0063 Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0064 Concrete Testing (01 45 23 00-0063)		
01 45 23 00-0065 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab	18.50	
01 45 23 00-0066 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633	38.59	
01 45 23 00-0067 EA Concrete Cores Compression Test, ASTM C-42.....	78.95	
01 45 23 00-0068 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78	115.39	
01 45 23 00-0069 EA Unit Weight Of Concrete Cylinder, ASTM C-567	42.51	
01 45 23 00-0070 EA Concrete Mix Design Review.....	230.77	
01 45 23 00-0071 EA Trial Concrete Batch Prepared In Laboratory	546.57	
01 45 23 00-0072 EA Concrete Shrinkage, ASTM C-157 Modified.....	425.11	
01 45 23 00-0073 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496.....	65.59	
01 45 23 00-0074 EA Concrete Slump Test, ASTM C143.....	30.36	
01 45 23 00-0075 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	30.36	
01 45 23 00-0076 Cement Testing (01 45 23 00-0063)		
01 45 23 00-0077 EA Cement Grab Sample (CCR Title 24)	30.36	
Note: Includes sealing and storing 1 year.		
01 45 23 00-0078 EA 2" x 2" x 2" Cube Compression Test, All Type Materials	48.58	
01 45 23 00-0079 Asphaltic Concrete Testing (01 45 23 00-0063)		
01 45 23 00-0080 EA Hveem Asphaltic Concrete Stability Test, CA 366	60.73	
01 45 23 00-0081 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	157.90	
01 45 23 00-0082 EA Stability Tests, Premixed, ASTM D1559.....	60.73	
01 45 23 00-0083 EA Stability Tests, Lab. Mixed, ASTM D1559	157.90	
01 45 23 00-0084 EA Swell Test, CA 305	72.88	
Note: Includes compaction.		
01 45 23 00-0085 EA % Asphalt Extraction Test, ASTM D-2172 B.....	182.19	
01 45 23 00-0086 EA Gradation On Extracted Sample, ASTM D-5444	121.46	
01 45 23 00-0087 EA Maximum Theoretical Unit Weight, ASTM C2041.....	115.76	
01 45 23 00-0088 EA Unit Weight Sample Requiring Compaction, California Test Method 308	24.29	
01 45 23 00-0089 EA Asphalt Unit Weight On Core Test, CA 308C	24.29	
01 45 23 00-0090 HR Nuclear Field Density Testing, 4 Hour Minimum.....	125.10	
01 45 23 00-0091 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	81.96	
01 45 23 00-0092 EA Penetration, ASTM D5.....	87.73	
01 45 23 00-0093 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0094 Masonry Testing (01 45 23 00-0093)		
01 45 23 00-0095 EA 2" x 4" Cylinder Mortar Compression Test.....	40.08	
01 45 23 00-0096 EA 4" x 4" x 8" Grout Prisms Compression Test.....	40.08	
01 45 23 00-0097 EA Masonry Cores Compression Test	78.95	
01 45 23 00-0098 EA Composite Grouted Prism Compression Test.....	151.82	
01 45 23 00-0099 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0093)		
01 45 23 00-0100 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140.....	97.17	
01 45 23 00-0101 EA Absorption Test, Moisture Content And Unit Weight.....	66.80	
01 45 23 00-0102 EA Moisture Condition By Relative Humidity, ASTM C427, First Unit	254.98	
01 45 23 00-0103 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit	127.49	
01 45 23 00-0104 Metals Testing (01 45 23)		
01 45 23 00-0105 Tank Tightness Testing (01 45 23 00-0104)		
01 45 23 00-0106 GAL Up To 20 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	6.48	
01 45 23 00-0107 GAL >20 To 120 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks.....	5.55	
01 45 23 00-0108 EA Up To 12,000 Gallons, Tank Volumetric Tightness Testing	1,667.28	
01 45 23 00-0109 EA >12,000 To 29,999 Gallons, Tank Volumetric Tightness Testing	2,037.13	
01 45 23 00-0110 EA >29,999 Gallons, Tank Volumetric Tightness Testing.....	2,594.37	

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 45 23 00-0111	Tank Line Tightness Testing (01 45 23 00-0104)		
01 45 23 00-0112	EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	351.80	
01 45 23 00-0113	EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing	390.64	
01 45 23 00-0114	EA >29,999 Gallons, Tank Line Volumetric Tightness Testing	429.34	
01 45 23 00-0115	Other Testing (01 45 23)		
01 45 23 00-0116	Special Testing (01 45 23 00-0115)		
01 45 23 00-0117	EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight	94.15	
01 45 23 00-0118	EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	564.88	
01 45 23 00-0119	EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria)	28.40	
01 45 23 00-0120	EA Testing For The Presence Of PCBs In Caulk, Analysis Per Sample	117.73	
01 45 23 00-0121	EA Testing For The Presence Of PCBs In Soil, Analysis Per Sample	117.73	
01 45 23 00-0122	EA Testing For The Presence Of PCBs Using Wipe Sampling, Analysis Per Sample	117.73	
01 45 23 00-0123	EA Testing For The Presence Of PCBs In Air, Analysis Per Sample	647.52	
01 45 23 00-0124	Nondestructive Field Testing Services (01 45 23 00-0115)		
01 45 23 00-0125	Infrared Thermography (01 45 23 00-0124) Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0126	Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0125) Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0127	EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	1,118.44	
01 45 23 00-0128	CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	3.53	
	For Digital Or Analog Recording Of All Items, Add	0.53	
01 45 23 00-0129	CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	2.35	
	For Digital Or Analog Recording Of All Items, Add	0.35	
01 45 23 00-0130	Other Nondestructive Field Testing Services (01 45 23 00-0124)		
01 45 23 00-0131	HR ASNT Certified Level I NDT Consultant	77.85	
01 45 23 00-0132	HR ASNT Certified Level II NDT Consultant	86.83	
01 45 23 00-0133	HR ASNT Certified Level III NDT Consultant	95.83	
01 45 23 00-0134	HR Certified Industrial Radiography Radiation Safety Personnel	109.15	

01 50 Temporary Facilities And Controls (01)

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

01 52 Construction Facilities (01 50)

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

01 52 13 Field Offices And Sheds (01 52)**01 52 13 00-0001 Field Offices (01 52 13)**

Note: Excludes furniture, utility connections and service. Minimum 6 months rental.

01 52 13 00-0002	MO 8' x 24' Office, With Toilet	172.19	
	For Each Delivery And Removal, Round Trip, Add	319.05	
	For Each Set-Up (Block And Level), Add	82.73	
	For Each Anchoring Into Dirt, Add	134.99	
	For Each Anchoring Into Asphalt Or Concrete, Add	202.49	
	For Office Trailer Without Toilet, Deduct	-34.44	
01 52 13 00-0003	MO 8' x 32' Office, With Toilet	195.15	
	For Each Delivery And Removal, Round Trip, Add	319.05	
	For Each Set-Up (Block And Level), Add	82.73	
	For Each Anchoring Into Dirt, Add	134.99	
	For Each Anchoring Into Asphalt Or Concrete, Add	202.49	
	For Office Trailer Without Toilet, Deduct	-39.03	
01 52 13 00-0004	MO 10' x 36' Office, With Toilet	264.03	
	For Each Delivery And Removal, Round Trip, Add	528.95	
	For Each Set-Up (Block And Level), Add	134.97	
	For Each Anchoring Into Dirt, Add	134.99	
	For Each Anchoring Into Asphalt Or Concrete, Add	202.49	
	For Office Trailer Without Toilet, Deduct	-52.81	
01 52 13 00-0005	MO 10' x 40' Office, With Toilet	281.25	
	For Each Delivery And Removal, Round Trip, Add	528.95	
	For Each Set-Up (Block And Level), Add	134.97	
	For Each Anchoring Into Dirt, Add	134.99	
	For Each Anchoring Into Asphalt Or Concrete, Add	202.49	
	For Office Trailer Without Toilet, Deduct	-56.25	
01 52 13 00-0006	MO 10' x 44' Office, With Toilet	309.94	
	For Each Delivery And Removal, Round Trip, Add	528.95	
	For Each Set-Up (Block And Level), Add	134.97	
	For Each Anchoring Into Dirt, Add	134.99	
	For Each Anchoring Into Asphalt Or Concrete, Add	202.49	



General Requirements			01	TO
Temporary Facilities And Controls			01 50	
Construction Facilities			01 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0007 MO 10' x 50' Office, With Toilet For Each Delivery And Removal, Round Trip, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	327.17 528.95 134.97 134.99 202.49	
01 52 13 00-0008 MO 12' x 44' Office, With Toilet For Each Delivery And Removal, Round Trip, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	592.21 528.95 134.97 134.99 202.49	
01 52 13 00-0009 MO 12' x 50' Office, With Toilet For Each Delivery And Removal, Round Trip, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	384.56 528.95 134.97 134.99 202.49	
01 52 13 00-0010 MO 12' x 60' Office, With Toilet For Each Delivery And Removal, Round Trip, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	419.00 528.95 134.97 134.99 202.49	
01 52 13 00-0011 MO 24' x 60' Office, With Toilet For Each Delivery And Removal, Round Trip, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	918.35 1,007.52 217.70 134.99 202.49	
01 52 13 00-0012 MO 24' x 72' Office, With Toilet For Each Delivery And Removal, Round Trip, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	1,102.02 1,007.52 217.70 134.99 202.49	
01 52 13 00-0013 MO 30' x 30' Office, With Toilet For Each Delivery And Removal, Round Trip, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	523.75 1,007.52 217.70 134.99 202.49	
01 52 13 00-0014 Accessories For Field Office Trailers (01 52 13) Note: Costs includes installation or placement in trailer.		
01 52 13 00-0015 MO Desk For Field Office Trailer	31.33	
01 52 13 00-0016 MO Rolling Desk Chair For Field Office Trailer	19.58	
01 52 13 00-0017 MO File Cabinet For Field Office Trailer	23.50	
01 52 13 00-0018 MO Table For Field Office Trailer	15.67	
01 52 13 00-0019 MO Folding Chair For Field Office Trailer	7.42	
01 52 13 00-0020 EA Phone Hook-Up For Field Office Trailer	86.17	
01 52 13 00-0021 MO Local Phone Service Per Phone Line For Field Office Trailer	54.83	
01 52 13 00-0022 MO Security System With Monitoring For Field Office Trailer	98.73	
01 52 13 00-0023 LF Perimeter Trailer Skirting For Field Office Trailer	28.30	
01 52 13 00-0024 LF Insulated Perimeter Trailer Skirting For Field Office Trailer	51.45	
01 52 13 00-0025 MO Steps For Field Office Trailer	25.00	
01 52 13 00-0026 MO Fax Machine For Field Office Trailer	39.17	
01 52 13 00-0027 MO Copier For Field Office Trailer	62.67	
01 52 13 00-0028 Storage Containers (01 52 13)		
01 52 13 00-0029 MO 8' x 8' x 10' Storage Container For Delivery And Pick-up Of Container, Add For >12 Months, Deduct	96.25 87.57 -28.88	
01 52 13 00-0030 MO 8' x 8' x 20' Storage Container For Delivery And Pick-up Of Container, Add For >12 Months, Deduct	100.62 96.32 -30.19	
01 52 13 00-0031 MO 8' x 8' x 40' Storage Container For Delivery And Pick-up Of Container, Add For >12 Months, Deduct	119.00 194.00 -35.70	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19) Note: Includes delivery, set-up, servicing once per week and removal.		
01 52 19 00-0002 WK Portable Toilets, Chemical For Each Additional Servicing Per Unit Per Week, Add For Delivery, Add	51.66 25.00 35.00	
01 52 19 00-0003 MO Portable Toilets, Chemical For Each Additional Servicing Per Unit Per Week, Add For Delivery, Add	154.98 25.00 35.00	
01 52 19 00-0004 WK ADA Portable Toilets, Chemical For Each Additional Servicing Per Unit Per Week, Add For Delivery, Add	61.62 25.00 35.00	
01 52 19 00-0005 MO ADA Portable Toilets, Chemical For Each Additional Servicing Per Unit Per Week, Add For Delivery, Add	180.82 25.00 35.00	
01 52 19 00-0006 WK Two Station Portable Handwash	30.02	
01 52 19 00-0007 MO Two Station Portable Handwash	91.06	

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 19 00-0008	MO	Portable Toilets, Multi Trailer, 16'..... Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)	2,749.75	
01 52 19 00-0009	WK	Service Trailer Restrooms, 3 Times Per Week	2,061.38	
01 54 Construction Aids ^(01 50)				
01 54 23 Temporary Scaffolding And Platforms ^(01 54)				
01 54 23 00-0001		Scaffolding ^(01 54 23) Note: Additional scaffolding rental for work above the normal working height of 14'.		
01 54 23 00-0002		Scaffolding Rental - Rental Only ^(01 54 23 00-0001) Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.		
01 54 23 00-0003	CCF	Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month)..... For Up To 25, Add For >25 To 50, Add For >50 To 150, Add	30.57 12.23 7.64 3.06	
01 54 23 00-0004	CCF	Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month)..... For Up To 25, Add For >25 To 50, Add For >50 To 150, Add	34.37 13.75 8.59 3.44	
01 54 23 00-0005	CCF	Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month)..... For Up To 25, Add For >25 To 50, Add For >50 To 150, Add	45.85 18.34 11.46 4.59	
01 54 23 00-0006		Scaffolding Erection And Dismantling - Labor Only ^(01 54 23 00-0001) Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.		
01 54 23 00-0007	CCF	Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	42.23	
01 54 23 00-0008	CCF	>20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	52.80	
01 54 23 00-0009	CCF	>40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	63.35	
01 54 23 00-0010	CCF	>60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	69.69	
01 54 23 00-0011	CCF	>80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	80.24	
01 54 23 00-0012	CCF	Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories	50.68	
01 54 23 00-0013		Heavy Duty Masonry Scaffolding Rental - Rental Only ^(01 54 23 00-0001) Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0020 for erection.		
01 54 23 00-0014	CCF	Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	37.47	
01 54 23 00-0015	CCF	Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	68.70	
01 54 23 00-0016	LF	Aluminum Joists (LF / Month)	6.09	
01 54 23 00-0017	LF	Aluminum Stringers (LF / Month)	8.73	
01 54 23 00-0018	EA	Screw Jack With U-Plate For Stringers (EA / Month).....	11.01	
01 54 23 00-0019	CSF	Netting for Exterior Building Scaffolding, Installation, Rental and Removal	19.32	
		For Each Additional Month Of Usage, Add	19.32	
01 54 23 00-0020		Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only ^(01 54 23 00-0001) Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.		
01 54 23 00-0021	CCF	Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	67.58	
01 54 23 00-0022	CCF	>20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	84.47	
01 54 23 00-0023	CCF	>40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	101.36	
01 54 23 00-0024	CCF	>60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	109.80	
01 54 23 00-0025	CCF	>80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	122.47	
01 54 23 00-0026		Rolling Scaffolding ^(01 54 23) Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.		
01 54 23 00-0027	DAY	Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	10.65	
01 54 23 00-0028	WK	Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	42.66	
01 54 23 00-0029	MO	Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	170.62	
01 54 23 00-0030	DAY	Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	17.82	
01 54 23 00-0031	WK	Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	71.38	
01 54 23 00-0032	MO	Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	285.54	
01 54 23 00-0033	EA	Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold, >14' To 20'	84.86	
01 54 23 00-0034	EA	Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold, >20' To 40'	106.07	



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

10

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0035		Shoring Posts (01 54 23) Note: Includes moving to perform task. No additional cost for relocating will be allowed.		
01 54 23 00-0036	DAY	6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	4.40	
01 54 23 00-0037	WK	6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	13.20	
01 54 23 00-0038	MO	6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	22.00	
01 54 23 00-0039		Temporary Lumber For Platforms, Scaffolding And Bracing (01 54 23)		
01 54 23 00-0040	SF	5/16" CD Grade Plywood - Temporary Lumber	1.48	0.56
01 54 23 00-0041	SF	1/2" CD Grade Plywood - Temporary Lumber	1.79	0.56
01 54 23 00-0042	SF	5/8" CD Grade Plywood - Temporary Lumber	2.04	0.56
01 54 23 00-0043	SF	3/4" CD Grade Plywood - Temporary Lumber	2.32	0.56
01 54 23 00-0044	SF	1" CD Grade Plywood - Temporary Lumber	3.43	0.84
01 54 23 00-0045	LF	2" x 4" Temporary Lumber	1.03	1.17
01 54 23 00-0046	LF	2" x 6" Temporary Lumber	1.53	1.17
01 54 23 00-0047	LF	2" x 8" Temporary Lumber	2.04	1.17
01 54 23 00-0048	LF	2" x 10" Temporary Lumber	2.56	1.17
01 54 23 00-0049	LF	2" x 12" Temporary Lumber	3.07	1.17
01 54 23 00-0050	LF	3" x 8" Temporary Lumber	3.07	1.17
01 54 23 00-0051	LF	3" x 10" Temporary Lumber	3.84	1.17
01 54 23 00-0052	LF	3" x 12" Temporary Lumber	4.60	1.17
01 54 23 00-0053	LF	4" x 4" Temporary Lumber	2.18	0.59
01 54 23 00-0054	LF	4" x 6" Temporary Lumber	3.10	0.73
01 54 23 00-0055	LF	6" x 6" Temporary Lumber	4.02	0.87
01 54 23 00-0056	LF	6" x 8" Temporary Lumber	5.21	1.09
01 54 23 00-0057	LF	12" x 12" Temporary Lumber	12.57	1.75
01 54 23 00-0058		Temporary Precast Concrete Blocks (01 54 23) Note: Includes removal after use.		
01 54 23 00-0059	EA	2' x 2' x 2' Temporary Precast Concrete Block	82.27	
01 54 23 00-0060	EA	2' x 2' x 4' Temporary Precast Concrete Block	102.83	
01 54 23 00-0061	EA	2' x 2' x 8' Temporary Precast Concrete Block	123.40	
01 54 26		Temporary Swing Staging (01 54) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
01 54 26 00-0001		Swing Stage (01 54 26) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002	MO	7' Swing Stage, Electric Operated	1,647.05	
01 54 26 00-0003	MO	10' Swing Stage, Electric Operated	1,729.40	
01 54 26 00-0004	MO	14' Swing Stage, Electric Operated	1,811.76	
01 54 26 00-0005	MO	20' Swing Stage, Electric Operated	1,894.11	
01 54 26 00-0006	MO	24' Swing Stage, Electric Operated	1,976.46	
01 54 26 00-0007	MO	30' Swing Stage, Electric Operated	2,058.82	
01 54 26 00-0008	MO	42' Swing Stage, Electric Operated	2,141.17	
01 54 26 00-0009	MO	12' Swing Stage, Manually Operated.....	474.94	
01 54 26 00-0010	MO	24' Swing Stage, Manually Operated.....	593.68	
01 54 26 00-0011	MO	Temporary Roof Mounted Outrigger System	745.00	
01 54 26 00-0012	EA	Swing Stage Platform From Hooks, Erection And Dismantling.....	3,615.88	
		Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.		
01 54 26 00-0013	EA	Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	5,024.87	
		Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.		
01 54 26 00-0014	EA	Move Swing Stage Platform From Hooks To Different Location At Same Roof.....	1,901.31	
01 54 26 00-0015	EA	Move Swing Stage Platform And Temporary Roof Mounted Outrigger System To Different Location At Same Roof.....	2,648.24	
01 54 29		Temporary Sidewalk Protection (01 54)		
01 54 29 00-0001		Sidewalk Bridge (01 54 29)		
01 54 29 00-0002		Installation of Sidewalk Bridge (01 54 29 00-0001)		
01 54 29 00-0003	LF	Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	71.80	
		Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
		For 3 Post System, Add	6.00	
		For Each Additional Foot Over 8' Wide, Add	3.00	
		For Each Additional Foot Over 8' High, Add	2.00	
01 54 29 00-0004	LF	Installation of Netting for Sidewalk Bridge	3.45	
01 54 29 00-0005		Monthly Rental of Sidewalk Bridge (01 54 29 00-0001)		
01 54 29 00-0006	LF	Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	8.00	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	1.20	

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 29 00-0007	LF	Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	9.01	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	1.35	
01 54 29 00-0008	LF	Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	10.01	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	1.50	
01 54 29 00-0009	LF	Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	10.01	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	1.50	
01 54 29 00-0010	LF	Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	11.00	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	1.65	
01 54 29 00-0011	LF	Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	13.02	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	1.95	
01 54 29 00-0012	LF	Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	12.02	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	1.80	
01 54 29 00-0013	LF	Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	14.02	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	2.10	
01 54 29 00-0014	LF	Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	15.00	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	2.25	
01 54 29 00-0015	LF	Monthly Rental of Netting for Sidewalk Bridge.....	1.50	
01 54 29 00-0016		Removal of Sidewalk Bridge (01 54 29 00-0001)		
01 54 29 00-0017	LF	Removal of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	28.13	
		Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
		For 3 Post System, Add	2.50	
		For Each Additional Foot Over 8' Wide, Add	1.25	
		For Each Additional Foot Over 8' High, Add	0.75	
01 54 29 00-0018	LF	Removal of Netting for Sidewalk Bridge.....	1.72	
01 55		Vehicular Access And Parking (01 50)		
01 55 23		Temporary Roads (01 55)		
01 55 23 00-0001		Temporary Stabilized Construction Entrance (01 55 23)		
		Note: As per Caltrans detail.		
01 55 23 00-0002	SF	3" To 4" Rock Temporary Stabilized Construction Entrance Assembly.....	3.53	
		Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003	SF	>4" To 6" Rock Temporary Stabilized Construction Entrance Assembly.....	4.24	
		Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0004		Rumble Trench Plate (01 55 23)		
01 55 23 00-0005	MO	8' x 10' Steel Rumble Trench Plate Rental.....	219.98	
01 55 23 00-0006	EA	Place And Remove Rumble Plate.....	74.53	
		Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007	EA	Relocate And Adjust Location Of Rumble Plate.....	18.63	
		Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0008		Temporary Road Ramps (Godwin) (01 55 23)		
		Note: Excludes asphalt and gravel.		
01 55 23 00-0009	EA	4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	3,035.14	164.02
01 55 23 00-0010	EA	6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	4,140.75	246.02
01 55 23 00-0011	EA	8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	5,717.17	328.04
01 55 23 00-0012	EA	12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	11,766.19	410.04
01 55 23 00-0013	EA	24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	17,226.71	492.05
01 55 26		Traffic Control (01 55)		
01 55 26 00-0001		Removable Preformed Traffic Black Line Mask (01 55 26)		
		Note: Includes installation and removal after use.		
01 55 26 00-0002	LF	6" Removable Traffic Black Line Mask.....	4.33	
01 55 26 00-0003	LF	8" Removable Traffic Black Line Mask.....	5.32	



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

TO

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape.....	3.28	
01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape.....	4.37	
01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape.....	5.40	
01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines.....	1.78	
For Not Removed, Deduct	-2.43	
01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines.....	2.34	
For Not Removed, Deduct	-3.30	
01 55 26 00-0011 LF 8" Temporary Painted Traffic Lines.....	2.93	
For Not Removed, Deduct	-4.19	
01 55 26 00-0012 EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.33	
01 55 26 00-0013 EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.35	
01 55 26 00-0014 Pedestrian Traffic Control (01 55 26)		
01 55 26 00-0015 CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	11.21	
01 55 26 00-0016 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	15.40	
01 55 26 00-0017 CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	7.73	
01 55 26 00-0018 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	9.82	
01 55 26 00-0019 CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	11.18	
01 55 26 00-0020 CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	16.57	
01 55 26 00-0021 CLF 1" Exterior Vinyl Tape (Warning Tape)	14.20	
01 55 26 00-0022 CLF 2" Exterior Vinyl Tape (Warning Tape)	21.07	
01 55 26 00-0023 CLF 3" Exterior Vinyl Tape (Warning Tape)	27.87	
01 55 26 00-0024 CLF 4" Exterior Vinyl Tape (Warning Tape)	32.69	
01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent (01 55 26) Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.		
01 55 26 00-0026 LF 4" Linear Delineation System.....	6.60	
01 55 26 00-0027 LF 6" Linear Delineation System.....	8.80	
01 55 26 00-0028 Traffic Protection (01 55 26)		
01 55 26 00-0029 Portable Traffic Control Device Usage (01 55 26 00-0028) Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0030 DAY 28" Cone With Reflective Collar.....	0.47	
01 55 26 00-0031 WK 28" Cone With Reflective Collar.....	1.42	
01 55 26 00-0032 MO 28" Cone With Reflective Collar.....	4.25	
01 55 26 00-0033 DAY Vertical Panel.....	1.43	
01 55 26 00-0034 WK Vertical Panel.....	4.28	
01 55 26 00-0035 MO Vertical Panel.....	12.84	
01 55 26 00-0036 DAY Channelizer Drum.....	1.55	
01 55 26 00-0037 WK Channelizer Drum.....	4.65	
01 55 26 00-0038 MO Channelizer Drum.....	13.94	
01 55 26 00-0039 DAY Stackable Channelizer Panel.....	0.73	
01 55 26 00-0040 WK Stackable Channelizer Panel.....	2.20	
01 55 26 00-0041 MO Stackable Channelizer Panel.....	6.59	
01 55 26 00-0042 DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.01	
01 55 26 00-0043 WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	3.04	
01 55 26 00-0044 MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	9.13	
01 55 26 00-0045 DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	2.25	
01 55 26 00-0046 WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	6.74	
01 55 26 00-0047 MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	20.23	
01 55 26 00-0048 DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	2.56	
01 55 26 00-0049 WK Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	7.69	
01 55 26 00-0050 MO Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	23.06	
01 55 26 00-0051 DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	4.69	
01 55 26 00-0052 WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	14.06	
01 55 26 00-0053 MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	42.18	
01 55 26 00-0054 DAY Up To 10' Wide A Frame Barricade	2.57	
01 55 26 00-0055 WK Up To 10' Wide A Frame Barricade	7.71	
01 55 26 00-0056 MO Up To 10' Wide A Frame Barricade	23.13	
01 55 26 00-0057 DAY Type A Or C Flasher	0.52	
01 55 26 00-0058 WK Type A Or C Flasher	1.57	
01 55 26 00-0059 MO Type A Or C Flasher	4.71	
01 55 26 00-0060 DAY Type B Flasher (High Intensity)	2.84	
01 55 26 00-0061 WK Type B Flasher (High Intensity)	8.52	
01 55 26 00-0062 MO Type B Flasher (High Intensity)	25.57	
01 55 26 00-0063 Traffic Barriers Usage (01 55 26 00-0028) Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0064	DAY	6' Long Portable Parking Curbs	1.22	
01 55 26 00-0065	WK	6' Long Portable Parking Curbs	3.67	
01 55 26 00-0066	MO	6' Long Portable Parking Curbs	11.02	
01 55 26 00-0067	DAY	6' Long Portable Speed Bumps	3.62	
01 55 26 00-0068	WK	6' Long Portable Speed Bumps	10.87	
01 55 26 00-0069	MO	6' Long Portable Speed Bumps	32.60	
01 55 26 00-0070	DAY	Up To 12.5' Concrete Traffic Barrier	8.70	
01 55 26 00-0071	WK	Up To 12.5' Concrete Traffic Barrier	26.11	
01 55 26 00-0072	MO	Up To 12.5' Concrete Traffic Barrier	78.32	
01 55 26 00-0073	DAY	>12.5' To 20' Concrete Traffic Barrier	17.40	
01 55 26 00-0074	WK	>12.5' To 20' Concrete Traffic Barrier	52.21	
01 55 26 00-0075	MO	>12.5' To 20' Concrete Traffic Barrier	156.64	
01 55 26 00-0076	DAY	6' x 32" Tall Plastic Water Barrier.....	10.39	
01 55 26 00-0077	WK	6' x 32" Tall Plastic Water Barrier.....	31.18	
01 55 26 00-0078	MO	6' x 32" Tall Plastic Water Barrier.....	93.53	
01 55 26 00-0079	DAY	6' x 46" Tall Plastic Water Barrier.....	14.84	
01 55 26 00-0080	WK	6' x 46" Tall Plastic Water Barrier.....	44.51	
01 55 26 00-0081	MO	6' x 46" Tall Plastic Water Barrier.....	133.54	
01 55 26 00-0082	DAY	Sand Filled Crash Attenuator Barrels.....	5.81	
01 55 26 00-0083	WK	Sand Filled Crash Attenuator Barrels.....	17.42	
01 55 26 00-0084	MO	Sand Filled Crash Attenuator Barrels.....	52.27	

01 55 26 00-0085**Portable Signs And Message Displays Usage** (01 55 26 00-0028)

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.

01 55 26 00-0086	DAY	Mesh Or Vinyl Roll-up Sign With Stand	4.56	
01 55 26 00-0087	WK	Mesh Or Vinyl Roll-up Sign With Stand	13.68	
01 55 26 00-0088	MO	Mesh Or Vinyl Roll-up Sign With Stand	41.04	
01 55 26 00-0089	DAY	Aluminum Sign And Post	2.48	
01 55 26 00-0090	WK	Aluminum Sign And Post	7.44	
01 55 26 00-0091	MO	Aluminum Sign And Post	22.33	
01 55 26 00-0092	DAY	Aluminum Sign And A Frame Stand	3.45	
01 55 26 00-0093	WK	Aluminum Sign And A Frame Stand	10.34	
01 55 26 00-0094	MO	Aluminum Sign And A Frame Stand	31.03	
01 55 26 00-0095	DAY	Trailer Mounted Flashing Arrow Board	56.00	
01 55 26 00-0096	WK	Trailer Mounted Flashing Arrow Board	168.00	
01 55 26 00-0097	MO	Trailer Mounted Flashing Arrow Board	503.99	
01 55 26 00-0098	DAY	Trailer Mounted Portable Variable Message Sign (PVMS)	299.99	
01 55 26 00-0099	WK	Trailer Mounted Portable Variable Message Sign (PVMS)	899.97	
01 55 26 00-0100	MO	Trailer Mounted Portable Variable Message Sign (PVMS)	2,699.90	
01 55 26 00-0101	DAY	Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	776.44	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.				
01 55 26 00-0102	WK	Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	2,329.32	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.				
01 55 26 00-0103	MO	Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	6,987.96	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.				

01 55 26 00-0104**Place And Remove Traffic Protection Using Truck** (01 55 26 00-0028)

Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0048 for delivery >15 miles.

01 55 26 00-0105	EA	Place And Remove Up To 250 Cones Using Truck	3.65	
01 55 26 00-0106	EA	Place And Remove >250 Cones Using Truck	2.92	
01 55 26 00-0107	EA	Place And Remove Up To 250 Panels/Channelizers Using Truck.....	4.88	
01 55 26 00-0108	EA	Place And Remove >250 Panels/Channelizers Using Truck	3.89	
01 55 26 00-0109	EA	Place And Remove Up To 250 Barricades Using Truck	7.30	
01 55 26 00-0110	EA	Place And Remove >250 Barricades Using Truck	5.85	
01 55 26 00-0111	EA	Place And Remove Curbs/Speed Bumps Using Truck	7.30	
01 55 26 00-0112	EA	Place And Remove Portable Sign And Stand Using Truck	4.38	
01 55 26 00-0113	EA	Place And Remove Aluminum Sign And Post Using Truck.....	18.27	
01 55 26 00-0114	EA	Place And Remove Trailer Mounted Boards And Signals Using Truck.....	54.81	
01 55 26 00-0115	EA	Place And Remove Up To 12.5' Concrete Traffic Barrier.....	74.53	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.				
For 1 Barrier, Add			186.33	
For 2 Barriers, Add			67.08	
For 3 Barriers, Add			22.36	
01 55 26 00-0116	EA	Place And Remove >12.5' Concrete Traffic Barrier	111.80	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.				
For 1 Barrier, Add			279.50	
For 2 Barriers, Add			100.62	
For 3 Barriers, Add			33.54	
01 55 26 00-0117	EA	Place And Remove Plastic Water Barrier	38.93	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for Equipment Usage, 01 71 13 00-0000 for mobilization tasks.				
For 1 Barrier, Add			93.18	
For 2 Barriers, Add			33.54	
For 3 Barriers, Add			11.18	



General Requirements			01	10
Temporary Facilities And Controls			01 50	
Vehicular Access And Parking			01 55	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0118	EA	Place And Remove Crash Attenuator Barrels.....	55.89		
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.					
For 1 Barrier, Add				139.73	
For 2 Barriers, Add				50.30	
For 3 Barriers, Add				16.77	
01 55 26 00-0119		Place And Remove Traffic Protection From Roadside (Daily) (01 55 26 00-0028)			
01 55 26 00-0120	EA	Place And Remove Up To 250 Cones By Hand From Roadside.....	1.83		
01 55 26 00-0121	EA	Place And Remove >250 Cones By Hand From Roadside.....	1.46		
01 55 26 00-0122	EA	Place And Remove Up To 250 Panels/Channelizers By Hand From Roadside.....	2.44		
01 55 26 00-0123	EA	Place And Remove >250 Panels/Channelizers By Hand From Roadside.....	1.94		
01 55 26 00-0124	EA	Place And Remove Up To 250 Barricades By Hand From Roadside.....	3.65		
01 55 26 00-0125	EA	Place And Remove >250 Barricades By Hand From Roadside.....	2.92		
01 55 26 00-0126	EA	Place And Remove Portable Sign And Stand From Roadside.....	2.17		
01 55 26 00-0127	EA	Place And Remove Trailer Mounted Boards And Signals From Roadside.....	27.41		
01 55 26 00-0128	EA	Roadside Relocation Of Concrete Traffic Barrier.....	37.27		
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.					
01 55 26 00-0129		Temporary Rumble Strips (01 55 26)			
Note: Includes removal after use.					
01 55 26 00-0130	LF	1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....	7.81		
01 55 26 00-0131	LF	1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....	5.72		
01 56		Temporary Barriers And Enclosures (01 50)			
Note: Includes removal after use.					
01 56 16		Temporary Dust Barriers (01 56)			
01 56 16 00-0001		Temporary Sheeting For Protection (01 56 16)			
Note: Includes removal after use.					
01 56 16 00-0002	SF	6 Mil, Plastic Sheeting, Applied To Floors.....	0.28		
01 56 16 00-0003	SF	6 Mil, Plastic Sheeting, Applied To Walls.....	0.36		
01 56 16 00-0004	SF	6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.48		
01 56 16 00-0005	SF	6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.47		
01 56 16 00-0006	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.32		
01 56 16 00-0007	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.40		
01 56 16 00-0008	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....	0.52		
01 56 16 00-0009	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....	0.49		
01 56 16 00-0010	SF	10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.60		
01 56 16 00-0011	SF	6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Floors.....	0.34		
01 56 16 00-0012	SF	6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Walls.....	0.42		
01 56 16 00-0013	SF	6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Ceilings.....	0.54		
01 56 16 00-0014	SF	6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Scaffolding.....	0.51		
01 56 16 00-0015	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....	0.33		
01 56 16 00-0016	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....	0.41		
01 56 16 00-0017	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.53		
01 56 16 00-0018	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.50		
01 56 16 00-0019	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....	0.37		
01 56 16 00-0020	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....	0.45		
01 56 16 00-0021	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.57		
01 56 16 00-0022	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.54		
01 56 16 00-0023	SF	Heavy Duty Woven Water Repellant Canvas, Applied To Walls.....	0.73		
01 56 16 00-0024	SF	Burlap, Applied To Floors.....	0.56		
01 56 16 00-0025	EA	7' Zipper Door For Plastic Sheeting.....	17.65		
01 56 16 00-0026	LF	Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....	6.03		
Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.					
01 56 16 00-0027	EA	Up To 1 SF Individual Critical Barriers.....	9.37		
Note: For Outlets And Receptacles					
01 56 16 00-0028	EA	>1 To 4 SF Individual Critical Barriers.....	14.18		
Note: For diffusers, ceiling speakers, return grilles, etc.					
01 56 16 00-0029	EA	>4 To 8 SF Individual Critical Barriers.....	19.03		
Note: For diffusers, return grilles, access doors, light fixtures, etc.					
01 56 16 00-0030	EA	>8 To 32 SF Individual Critical Barriers.....	29.44		
Note: For doors, windows, etc.					
01 56 16 00-0031		Temporary Stud Wall (01 56 16)			
01 56 16 00-0032		Temporary Stud Wall With Drywall (01 56 16 00-0031)			
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.					
01 56 16 00-0033		Temporary Stud Wall With Drywall (01 56 16 00-0032)			
01 56 16 00-0034	SF	3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.01		
For Metal Studs 24" On Center, Add/Deduct				0.27	
01 56 16 00-0035	SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.01		
For Metal Studs 24" On Center, Add/Deduct				0.27	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0036	SF	5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.08		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0037	SF	3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	6.90		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0038	SF	1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	6.90		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0039	SF	5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	7.05		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0040 Temporary Stud Wall With Fire Rated Drywall (01 56 16 00-0032)					
01 56 16 00-0041	SF	1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	5.09		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0042	SF	5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	5.12		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0043	SF	5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.08		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0044	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.64		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0045	SF	1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.07		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0046	SF	5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.12		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0047	SF	5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.03		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0048	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.15		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0049 Temporary Stud Wall With Oriented Strand Board (OSB) (01 56 16 00-0031)					
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.					
01 56 16 00-0050	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.02		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0051	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.06		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0052	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.19		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0053	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.26		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0054	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	6.91		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0055	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	7.00		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0056	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	7.26		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0057	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	7.40		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0058 Temporary Stud Wall With BC Plywood (01 56 16 00-0031)					
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.					
01 56 16 00-0059	SF	3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.32		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0060	SF	1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	5.49		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0061	SF	5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	5.67		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0062	SF	3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.81		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.27		
01 56 16 00-0063	SF	3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.53		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0064	SF	1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.86		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0065	SF	5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.21		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0066	SF	3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.49		
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.34		
01 56 16 00-0067 Temporary Stud Wall With Plastic Sheeting (01 56 16 00-0031)					
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.					
01 56 16 00-0068	SF	6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	2.90		
01 56 16 00-0069	SF	6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	2.95		
01 56 16 00-0070	SF	6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	2.96		
01 56 16 00-0071	SF	6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	2.96		
01 56 16 00-0072	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	3.00		



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0073 Temporary Doors (01 56 16 00-0031) Note: For temporary stud walls. Includes removal after use.		
01 56 16 00-0074 EA Temporary Metal Door And Frame Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.	480.80	
01 56 16 00-0075 Temporary Floor Protection (01 56 16)		
01 56 16 00-0076 SF Masonite For Temporary Floor Protection	1.47	
01 56 16 00-0077 SF 1/2" Plywood For Temporary Floor Protection.....	1.57	
01 56 16 00-0078 SF 3/4" Plywood For Temporary Floor Protection.....	1.92	
01 56 16 00-0079 Sticky Mats (01 56 16)		
01 56 16 00-0080 EA 18" x 36", 30 Layer Sticky Mat..... For 60 Layers Instead Of 30, Add	21.54 13.61	
01 56 16 00-0081 EA 18" x 46", 30 Layer Sticky Mat..... For 60 Layers Instead Of 30, Add	24.56 15.88	
01 56 16 00-0082 EA 24" x 36", 30 Layer Sticky Mat..... For 60 Layers Instead Of 30, Add	24.56 15.88	
01 56 16 00-0083 EA 25" x 45", 30 Layer Sticky Mat..... For 60 Layers Instead Of 30, Add	32.12 21.55	
01 56 16 00-0084 EA 36" x 36", 30 Layer Sticky Mat..... For 60 Layers Instead Of 30, Add	35.15 23.82	
01 56 16 00-0085 EA 36" x 46", 30 Layer Sticky Mat..... For 60 Layers Instead Of 30, Add	38.17 26.09	
01 56 16 00-0086 EA 36" x 60", 30 Layer Sticky Mat..... For 60 Layers Instead Of 30, Add	75.98 54.44	
01 56 16 00-0087 EA 36" x 72", 30 Layer Sticky Mat.....	90.50	
01 56 26 Temporary Fencing (01 56)		
01 56 26 00-0001 Temporary Fencing (01 56 26) Note: Includes set-up and removal. Excludes auguring/drilling for posts.		
01 56 26 00-0002 Temporary Chain Link Fence (01 56 26 00-0001) Note: Includes set-up and removal. Excludes auguring/drilling for posts.		
01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months..... For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct For Shade Cloth, Add	2.53 -0.13 -0.25 -0.38 1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months..... For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct For Shade Cloth, Add	2.86 -0.14 -0.29 -0.43 2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months..... For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct For Shade Cloth, Add	4.83 -0.24 -0.48 -0.72 3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months..... For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct For Shade Cloth, Add	14.35 -0.72 -1.44 -2.15 4.75	
01 56 26 00-0008 Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct For Shade Cloth, Add	2.79 -0.14 -0.28 -0.42 1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct For Shade Cloth, Add	3.14 -0.16 -0.31 -0.47 2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct For Shade Cloth, Add	5.30 -0.27 -0.53 -0.80 3.60	
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct For Shade Cloth, Add	15.78 -0.79 -1.58 -2.37 4.75	

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0013		Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)		
01 56 26 00-0014	LF	Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months.....	3.07	
		For >100 To 250, Deduct	-0.15	
		For >250 To 500, Deduct	-0.31	
		For >500, Deduct	-0.46	
		For Shade Cloth, Add	1.60	
01 56 26 00-0015	LF	Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months.....	3.46	
		For >100 To 250, Deduct	-0.17	
		For >250 To 500, Deduct	-0.35	
		For >500, Deduct	-0.52	
		For Shade Cloth, Add	2.55	
01 56 26 00-0016	LF	Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months.....	5.85	
		For >100 To 250, Deduct	-0.29	
		For >250 To 500, Deduct	-0.59	
		For >500, Deduct	-0.88	
		For Shade Cloth, Add	3.60	
01 56 26 00-0017	LF	Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months.....	17.36	
		For >100 To 250, Deduct	-0.87	
		For >250 To 500, Deduct	-1.74	
		For >500, Deduct	-2.60	
		For Shade Cloth, Add	4.75	
01 56 26 00-0018		Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)		
01 56 26 00-0019	LF	Temporary 4' High Chain Link Fence And Posts, >18 Months.....	3.38	
		For >100 To 250, Deduct	-0.17	
		For >250 To 500, Deduct	-0.34	
		For >500, Deduct	-0.51	
		For Shade Cloth, Add	1.60	
01 56 26 00-0020	LF	Temporary 6' High Chain Link Fence And Posts, >18 Months.....	3.79	
		For >100 To 250, Deduct	-0.19	
		For >250 To 500, Deduct	-0.38	
		For >500, Deduct	-0.57	
		For Shade Cloth, Add	2.55	
01 56 26 00-0021	LF	Temporary 8' High Chain Link Fence And Posts, >18 Months.....	6.42	
		For >100 To 250, Deduct	-0.32	
		For >250 To 500, Deduct	-0.64	
		For >500, Deduct	-0.96	
		For Shade Cloth, Add	3.60	
01 56 26 00-0022	LF	Temporary 10' High Chain Link Fence And Posts, >18 Months.....	19.10	
		For >100 To 250, Deduct	-0.96	
		For >250 To 500, Deduct	-1.91	
		For >500, Deduct	-2.87	
		For Shade Cloth, Add	4.75	
01 56 26 00-0023		Temporary Chain Link Fence Gates (01 56 26 00-0001)		
		Note: Includes set-up and removal. Excludes auguring/drilling for posts.		
01 56 26 00-0024		Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)		
01 56 26 00-0025		4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0026	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	161.37	
		For Shade Cloth, Add	12.05	
01 56 26 00-0027	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	251.03	
		For Shade Cloth, Add	30.12	
01 56 26 00-0028	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	286.89	
		For Shade Cloth, Add	36.15	
01 56 26 00-0029	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	322.74	
		For Shade Cloth, Add	45.18	
01 56 26 00-0030	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	394.46	
		For Shade Cloth, Add	60.25	
01 56 26 00-0031	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	430.34	
		For Shade Cloth, Add	72.30	
01 56 26 00-0032		6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0033	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	168.71	
		For Shade Cloth, Add	19.20	
01 56 26 00-0034	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	262.43	
		For Shade Cloth, Add	48.01	
01 56 26 00-0035	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	299.92	
		For Shade Cloth, Add	57.61	
01 56 26 00-0036	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	337.43	
		For Shade Cloth, Add	72.01	
01 56 26 00-0037	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	412.40	
		For Shade Cloth, Add	96.02	
01 56 26 00-0038	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	449.89	
		For Shade Cloth, Add	115.22	
01 56 26 00-0039		8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	185.58	
		For Shade Cloth, Add	27.11	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0041	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	288.68	
			For Shade Cloth, Add	67.78	
01 56 26 00-0042	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	329.92	
			For Shade Cloth, Add	81.33	
01 56 26 00-0043	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	371.16	
			For Shade Cloth, Add	101.67	
01 56 26 00-0044	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	453.64	
			For Shade Cloth, Add	135.55	
01 56 26 00-0045	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	494.88	
			For Shade Cloth, Add	162.67	
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)					
01 56 26 00-0047	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	231.98	
			For Shade Cloth, Add	35.77	
01 56 26 00-0048	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	360.85	
			For Shade Cloth, Add	89.43	
01 56 26 00-0049	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	412.40	
			For Shade Cloth, Add	107.31	
01 56 26 00-0050	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	463.95	
			For Shade Cloth, Add	134.14	
01 56 26 00-0051	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	567.05	
			For Shade Cloth, Add	178.86	
01 56 26 00-0052	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	618.60	
			For Shade Cloth, Add	214.63	
01 56 26 00-0053 Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)					
01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)					
01 56 26 00-0055	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	169.44	
			For Shade Cloth, Add	12.05	
01 56 26 00-0056	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	263.58	
			For Shade Cloth, Add	30.12	
01 56 26 00-0057	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	301.23	
			For Shade Cloth, Add	36.15	
01 56 26 00-0058	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	338.88	
			For Shade Cloth, Add	45.18	
01 56 26 00-0059	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	414.18	
			For Shade Cloth, Add	60.25	
01 56 26 00-0060	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	451.86	
			For Shade Cloth, Add	72.30	
01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)					
01 56 26 00-0062	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	177.15	
			For Shade Cloth, Add	19.20	
01 56 26 00-0063	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	275.55	
			For Shade Cloth, Add	48.01	
01 56 26 00-0064	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	314.91	
			For Shade Cloth, Add	57.61	
01 56 26 00-0065	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	354.30	
			For Shade Cloth, Add	72.01	
01 56 26 00-0066	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	433.02	
			For Shade Cloth, Add	96.02	
01 56 26 00-0067	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	472.38	
			For Shade Cloth, Add	115.22	
01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)					
01 56 26 00-0069	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	194.86	
			For Shade Cloth, Add	27.11	
01 56 26 00-0070	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	303.11	
			For Shade Cloth, Add	67.78	
01 56 26 00-0071	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	346.42	
			For Shade Cloth, Add	81.33	
01 56 26 00-0072	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	389.72	
			For Shade Cloth, Add	101.67	
01 56 26 00-0073	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	476.32	
			For Shade Cloth, Add	135.55	
01 56 26 00-0074	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	519.63	
			For Shade Cloth, Add	162.67	
01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)					
01 56 26 00-0076	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	243.57	
			For Shade Cloth, Add	35.77	
01 56 26 00-0077	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	378.89	
			For Shade Cloth, Add	89.43	
01 56 26 00-0078	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	433.02	
			For Shade Cloth, Add	107.31	
01 56 26 00-0079	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	487.15	
			For Shade Cloth, Add	134.14	

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0080	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	595.40	
		<i>For Shade Cloth, Add</i>	178.86	
01 56 26 00-0081	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	649.53	
		<i>For Shade Cloth, Add</i>	214.63	
01 56 26 00-0082		Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083		4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	177.91	
		<i>For Shade Cloth, Add</i>	12.05	
01 56 26 00-0085	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	276.76	
		<i>For Shade Cloth, Add</i>	30.12	
01 56 26 00-0086	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	316.29	
		<i>For Shade Cloth, Add</i>	36.15	
01 56 26 00-0087	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	355.83	
		<i>For Shade Cloth, Add</i>	45.18	
01 56 26 00-0088	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	434.89	
		<i>For Shade Cloth, Add</i>	60.25	
01 56 26 00-0089	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	474.45	
		<i>For Shade Cloth, Add</i>	72.30	
01 56 26 00-0090		6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0091	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	186.01	
		<i>For Shade Cloth, Add</i>	19.20	
01 56 26 00-0092	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	289.33	
		<i>For Shade Cloth, Add</i>	48.01	
01 56 26 00-0093	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	330.66	
		<i>For Shade Cloth, Add</i>	57.61	
01 56 26 00-0094	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	372.01	
		<i>For Shade Cloth, Add</i>	72.01	
01 56 26 00-0095	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	454.67	
		<i>For Shade Cloth, Add</i>	96.02	
01 56 26 00-0096	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	496.00	
		<i>For Shade Cloth, Add</i>	115.22	
01 56 26 00-0097		8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0098	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	204.60	
		<i>For Shade Cloth, Add</i>	27.11	
01 56 26 00-0099	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	318.27	
		<i>For Shade Cloth, Add</i>	67.78	
01 56 26 00-0100	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	363.74	
		<i>For Shade Cloth, Add</i>	81.33	
01 56 26 00-0101	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	409.20	
		<i>For Shade Cloth, Add</i>	101.67	
01 56 26 00-0102	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	500.14	
		<i>For Shade Cloth, Add</i>	135.55	
01 56 26 00-0103	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	545.61	
		<i>For Shade Cloth, Add</i>	162.67	
01 56 26 00-0104		10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0105	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	255.75	
		<i>For Shade Cloth, Add</i>	35.77	
01 56 26 00-0106	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	397.84	
		<i>For Shade Cloth, Add</i>	89.43	
01 56 26 00-0107	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	454.67	
		<i>For Shade Cloth, Add</i>	107.31	
01 56 26 00-0108	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	511.51	
		<i>For Shade Cloth, Add</i>	134.14	
01 56 26 00-0109	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	625.17	
		<i>For Shade Cloth, Add</i>	178.86	
01 56 26 00-0110	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	682.01	
		<i>For Shade Cloth, Add</i>	214.63	
01 56 26 00-0111		Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)		
01 56 26 00-0112		4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0113	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	186.39	
		<i>For Shade Cloth, Add</i>	12.05	
01 56 26 00-0114	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	289.94	
		<i>For Shade Cloth, Add</i>	30.12	
01 56 26 00-0115	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	331.35	
		<i>For Shade Cloth, Add</i>	36.15	
01 56 26 00-0116	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	372.77	
		<i>For Shade Cloth, Add</i>	45.18	
01 56 26 00-0117	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	455.60	
		<i>For Shade Cloth, Add</i>	60.25	
01 56 26 00-0118	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	497.04	
		<i>For Shade Cloth, Add</i>	72.30	



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

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0119			6' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0120	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	194.86	
			For Shade Cloth, Add	19.20	
01 56 26 00-0121	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	303.11	
			For Shade Cloth, Add	48.01	
01 56 26 00-0122	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	346.41	
			For Shade Cloth, Add	57.61	
01 56 26 00-0123	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	389.73	
			For Shade Cloth, Add	72.01	
01 56 26 00-0124	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	476.32	
			For Shade Cloth, Add	96.02	
01 56 26 00-0125	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	519.62	
			For Shade Cloth, Add	115.22	
01 56 26 00-0126			8' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0127	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	214.35	
			For Shade Cloth, Add	27.11	
01 56 26 00-0128	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	333.43	
			For Shade Cloth, Add	67.78	
01 56 26 00-0129	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	381.06	
			For Shade Cloth, Add	81.33	
01 56 26 00-0130	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	428.69	
			For Shade Cloth, Add	101.67	
01 56 26 00-0131	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	523.96	
			For Shade Cloth, Add	135.55	
01 56 26 00-0132	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	571.59	
			For Shade Cloth, Add	162.67	
01 56 26 00-0133			10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0134	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	267.93	
			For Shade Cloth, Add	35.77	
01 56 26 00-0135	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	416.78	
			For Shade Cloth, Add	89.43	
01 56 26 00-0136	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	476.32	
			For Shade Cloth, Add	107.31	
01 56 26 00-0137	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	535.86	
			For Shade Cloth, Add	134.14	
01 56 26 00-0138	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	654.94	
			For Shade Cloth, Add	178.86	
01 56 26 00-0139	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	714.48	
			For Shade Cloth, Add	214.63	
01 56 26 00-0140			Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001)		
			Note: Includes set-up and removal. Excludes sandbags.		
01 56 26 00-0141			Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)		
01 56 26 00-0142	LF		Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months	3.03	
			For >100 To 250, Deduct	-0.15	
			For >250 To 500, Deduct	-0.30	
			For >500, Deduct	-0.45	
			For Shade Cloth, Add	1.60	
01 56 26 00-0143	LF		Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months	3.40	
			For >100 To 250, Deduct	-0.17	
			For >250 To 500, Deduct	-0.34	
			For >500, Deduct	-0.51	
			For Shade Cloth, Add	2.55	
01 56 26 00-0144	LF		Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months	5.48	
			For >100 To 250, Deduct	-0.27	
			For >250 To 500, Deduct	-0.55	
			For >500, Deduct	-0.82	
			For Shade Cloth, Add	3.60	
01 56 26 00-0145			Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)		
01 56 26 00-0146	LF		Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months	3.29	
			For >100 To 250, Deduct	-0.16	
			For >250 To 500, Deduct	-0.33	
			For >500, Deduct	-0.49	
			For Shade Cloth, Add	1.60	
01 56 26 00-0147	LF		Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months	3.68	
			For >100 To 250, Deduct	-0.18	
			For >250 To 500, Deduct	-0.37	
			For >500, Deduct	-0.55	
			For Shade Cloth, Add	2.55	
01 56 26 00-0148	LF		Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months	5.95	
			For >100 To 250, Deduct	-0.30	
			For >250 To 500, Deduct	-0.60	
			For >500, Deduct	-0.89	
			For Shade Cloth, Add	3.60	

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0149		Temporary Chain Link Fence Panels (Portable), >12 To 18 Months ^(01 56 26 00-0140)		
01 56 26 00-0150	LF	Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months	3.55	
		For >100 To 250, Deduct	-0.18	
		For >250 To 500, Deduct	-0.36	
		For >500, Deduct	-0.53	
		For Shade Cloth, Add	1.60	
01 56 26 00-0151	LF	Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months	4.01	
		For >100 To 250, Deduct	-0.20	
		For >250 To 500, Deduct	-0.40	
		For >500, Deduct	-0.60	
		For Shade Cloth, Add	2.55	
01 56 26 00-0152	LF	Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months	6.50	
		For >100 To 250, Deduct	-0.33	
		For >250 To 500, Deduct	-0.65	
		For >500, Deduct	-0.98	
		For Shade Cloth, Add	3.60	
01 56 26 00-0153		Temporary Chain Link Fence Panels (Portable), >18 Months ^(01 56 26 00-0140)		
01 56 26 00-0154	LF	Temporary 4' High Chain Link Fence Panels (Portable), >18 Months	3.88	
		For >100 To 250, Deduct	-0.19	
		For >250 To 500, Deduct	-0.39	
		For >500, Deduct	-0.58	
		For Shade Cloth, Add	1.60	
01 56 26 00-0155	LF	Temporary 6' High Chain Link Fence Panels (Portable), >18 Months	4.33	
		For >100 To 250, Deduct	-0.22	
		For >250 To 500, Deduct	-0.43	
		For >500, Deduct	-0.65	
		For Shade Cloth, Add	2.55	
01 56 26 00-0156	LF	Temporary 8' High Chain Link Fence Panels (Portable), >18 Months	7.06	
		For >100 To 250, Deduct	-0.35	
		For >250 To 500, Deduct	-0.71	
		For >500, Deduct	-1.06	
		For Shade Cloth, Add	3.60	
01 56 26 00-0157		Temporary Chain Link Fence Panels (Portable) Sandbags ^(01 56 26 00-0140)		
01 56 26 00-0158	BAG	Temporary Chain Link Fence Panels (Portable) Sandbag	5.26	
		Note: Includes placement and removal.		
01 56 26 00-0159		Relocate Chain Link Fence, Gates And Panels ^(01 56 26 00-0001)		
		Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160		Relocate Temporary Chain Link Fence On Site ^(01 56 26 00-0159)		
01 56 26 00-0161	LF	Relocate Temporary 4' High Chain Link Fence And Posts	2.78	
01 56 26 00-0162	LF	Relocate Temporary 6' High Chain Link Fence And Posts	4.16	
01 56 26 00-0163	LF	Relocate Temporary 8' High Chain Link Fence And Posts	6.02	
01 56 26 00-0164	LF	Relocate Temporary 10' High Chain Link Fence And Posts	7.40	
01 56 26 00-0165		Relocate Temporary Chain Link Fence Panels On Site ^(01 56 26 00-0159)		
01 56 26 00-0166	LF	Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.68	
01 56 26 00-0167	LF	Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	0.81	
01 56 26 00-0168	LF	Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	0.91	
01 56 26 00-0169		Relocate Temporary Chain Link Gates On Site ^(01 56 26 00-0159)		
01 56 26 00-0170	EA	Relocate Temporary 4' High Chain Link Vehicle Gate And Posts	88.26	
01 56 26 00-0171	EA	Relocate Temporary 6' High Chain Link Vehicle Gate And Posts	101.84	
01 56 26 00-0172	EA	Relocate Temporary 8' High Chain Link Vehicle Gate And Posts	125.61	
01 56 26 00-0173	EA	Relocate Temporary 10' High Chain Link Vehicle Gate And Posts	135.79	
01 56 26 00-0174		Temporary Safety Fence ^(01 56 26)		
		Note: Includes removal after use.		
01 56 26 00-0175	LF	48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	2.46	
01 56 29		Temporary Protective Walkways ^(01 56)		
01 56 29 00-0001		Temporary Walkways And Railings ^(01 56 29)		
01 56 29 00-0002	SF	Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	4.99	
01 56 29 00-0003	LF	Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	26.35	
01 56 29 00-0004	RSR	Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers	17.69	
01 56 29 00-0005		Safety Nets ^(01 56 29)		



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

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MINOR			TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION			UNIT COST		UNIT COST	
01 56 29 00-0006	SF	Small Mesh Debris Netting Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.	1.41			
01 56 33 Temporary Security Barriers (01 56)						
01 56 33 00-0001		Board-up Opening With Plywood (01 56 33) Note: For use where directed by owner for boarding up door and window openings.				
01 56 33 00-0002	OPN	Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	10.18			
01 56 33 00-0003	SF	Board-up Opening With 5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners.....	6.37			
01 56 33 00-0004	SF	Board-up Opening With 3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners.....	7.38			
01 56 33 00-0005 Street Barricade (01 56 33)						
01 56 33 00-0006	LF	Temporary Street Barricade, Using 12" x 12" Beam Base With 2" x 4" Top Warning Rail And Sides	8.79			
01 56 33 00-0007 Temporary Pedestrian Barricade (01 56 33)						
Note: Portable, interlocking galvanized steel fence with pivoting legs.						
01 56 33 00-0008	DAY	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	7.70			
01 56 33 00-0009	WK	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	18.70			
01 56 33 00-0010	MO	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	56.09			
01 56 39 Temporary Tree And Plant Protection (01 56)						
01 56 39 00-0001		Temporary Tree Guards (01 56 39) Note: Includes digging holes and removal.				
01 56 39 00-0002	EA	Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	136.48			
01 56 39 00-0003	EA	4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	158.82			
01 56 39 00-0004	EA	6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	171.95			
01 57 Temporary Controls (01 50)						
01 57 13 Temporary Erosion And Sediment Control (01 57)						
See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.						
01 57 23 Temporary Storm Water Pollution Control (01 57)						
See CSI section 31 25 00 00-0000 for temporary storm water pollution control.						
01 57 23 00-0001		Temporary Drain Guard (01 57 23) Note: Includes removal after use.				
01 57 23 00-0002	EA	36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227).....	67.24			
01 57 23 00-0003	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217)..... Note: Up to 0.87 gallons oil, up to 40 lbs sediment.	66.11			
01 57 23 00-0004	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219)..... Note: Up to 1.38 gallons oil, up to 40 lbs sediment.	82.04			
01 57 23 00-0005	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356)..... Note: Up to 1.55 gallons oil, up to 40 lbs sediment.	80.90			
01 57 23 00-0006	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358)..... Note: Up to 2.06 gallons oil, up to 40 lbs sediment.	97.98			
01 58 Project Identification (01 50)						
Note: Includes removal after use.						
01 58 13 Temporary Project Signage (01 58)						
01 58 13 00-0001		Project Sign (01 58 13)				
01 58 13 00-0002		MDO Plywood Signs (01 58 13 00-0001) Note: Excludes posts.				
01 58 13 00-0003		Reflectorized, MDO Plywood Signs (01 58 13 00-0002)				
01 58 13 00-0004		Engineer Grade, Reflectorized, MDO Plywood Signs (01 58 13 00-0003)				
01 58 13 00-0005	EA	Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	105.51		18.67	
		For High-Intensity Grade, Add	23.86			
		For Diamond Grade, Add	46.01			
01 58 13 00-0006	EA	>8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	175.37		19.52	
		For High-Intensity Grade, Add	47.71			
		For Diamond Grade, Add	92.02			
01 58 13 00-0007	EA	>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	245.21		20.38	
		For High-Intensity Grade, Add	71.56			
		For Diamond Grade, Add	138.02			
01 58 13 00-0008	EA	>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	315.07		21.22	
		For High-Intensity Grade, Add	95.42			
		For Diamond Grade, Add	184.03			

01 General Requirements**01 50 Temporary Facilities And Controls****01 58 Project Identification**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 58 13 00-0009	SF	>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign <i>For High-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	9.87 2.98 5.75	0.68
01 58 13 00-0010		Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		
01 58 13 00-0011		One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)		
01 58 13 00-0012	EA	Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	129.82	18.67
01 58 13 00-0013	EA	>8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	153.59	19.52
01 58 13 00-0014	EA	>16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	190.48	20.38
01 58 13 00-0015	EA	>24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	225.35	21.22
01 58 13 00-0016	SF	>32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	7.07	0.68
01 58 13 00-0017		Full Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)		
01 58 13 00-0018	EA	Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	132.43	18.67
01 58 13 00-0019	EA	>8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	167.63	19.52
01 58 13 00-0020	EA	>16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	204.75	20.38
01 58 13 00-0021	EA	>24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	237.57	21.22
01 58 13 00-0022	SF	>32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	7.45	0.68
01 58 13 00-0023		Fabricate And Install New Posts (01 58 13 00-0001) Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024	LF	Galvanized Metal Channel Sign Posts	11.08	
01 58 13 00-0025	LF	4" x 4" Pressure Treated Wood Sign Posts	9.74	
01 58 13 00-0026	LF	4" x 6" Pressure Treated Wood Sign Posts	11.33	
01 58 13 00-0027		Owner Supplied Signs (01 58 13 00-0001)		
01 58 13 00-0028	EA	Installation And Removal Of Owner Supplied Project Sign	67.91	

01 60 Product Requirements (01)**01 66 Product Storage And Handling Requirements** (01 60)**01 66 19 Material Handling** (01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories with attic (2-1/2 stories) or less than 125'.

01 66 19 00-0001 Material Handling Between Floors (01 66 19)

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

01 66 19 00-0002	CY	Transfer Delivered Material Between Floors Via Stairs, Per Floor	13.06	
Note: Quantity equals volume of materials multiplied by number of floors traveled.				
01 66 19 00-0003	CY	Transfer Delivered Material Between Floors Via Elevator, Per Trip	8.49	
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.				

01 66 19 00-0004 Moving Furniture (01 66 19)

Note: To be used when contractor is required to move furniture. Not to be used when the amount of furniture is less than 55% of the total floor space. Moving of furniture which occupies less than 55% of the total floor space is considered as part of the coefficient adjustment factor.

01 66 19 00-0005	SF	Removal, Transport, Return And Reinstallation Of Office Furniture	0.85	
Note: Includes general, desks, tables, file cabinets (full), chairs, storage boxes, bookshelves, office equipment and computers (per SF of office area). Not to be used when amount of furniture is less than 55% of total floor space.				

01 66 19 00-0006 Material Handling For Distances Greater Than 125' (01 66 19)

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

01 66 19 00-0007	CY	Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	5.31	

01 66 19 00-0008 Transfer Demolition Debris Between Floors (01 66 19)

Note: Only for use with demolition tasks.

01 66 19 00-0009	CY	Rubbish Handling Via Stairs, Per CY Of Material Per Floor	16.81	
Note: Quantity equals material volume times bulk factor times number of floors traveled.				
01 66 19 00-0010	CY	Rubbish Handling Via Elevator, Per CY Of Material	10.07	
Note: Quantity equals material volume times bulk factor. If more than one elevator is used, the quantity is factored by the number of transfers.				

01 66 19 00-0011 Transfer Demolition Debris Distances Greater Than 125' (01 66 19)

01 66 19 00-0012	CY	Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'	5.31	

01 70 Execution And Closeout Requirements (01)



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 71 Examination And Preparation (01 71)

01 71 13 Mobilization (01 71)

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

Note: Excludes flagman for traffic control where necessary. See CSI section 01 22 23 00-0835 for cranes.

01 71 13 00-0002	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck	241.85
Note: Includes delivery of equipment, off loading on site, rigging, dismantling, loading and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.			
01 71 13 00-0003	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....	604.51
Note: Includes delivery of equipment, off loading on site, rigging, dismantling, loading and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with >40' boom lengths, etc.			

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

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

01 71 13 00-0005	EA	Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane	386.95
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			96.74
For >60 To 100 Miles Radius, Add			154.78
01 71 13 00-0006	EA	20 To 30 Ton Lift Move On/Off Cost, Hydraulic Crane	628.80
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			157.20
For >60 To 100 Miles Radius, Add			251.52
01 71 13 00-0007	EA	40 To 50 Ton Lift Move On/Off Cost, Hydraulic Crane	870.64
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			217.66
For >60 To 100 Miles Radius, Add			348.26
01 71 13 00-0008	EA	70 To 100 Ton Lift Move On/Off Cost, Hydraulic Crane	1,402.70
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			350.68
For >60 To 100 Miles Radius, Add			561.08
01 71 13 00-0009	EA	75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	1,112.49
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			278.12
For >60 To 100 Miles Radius, Add			445.00
01 71 13 00-0010	EA	100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	1,789.65
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			447.41
For >60 To 100 Miles Radius, Add			715.86
01 71 13 00-0011	EA	125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	2,254.00
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			563.50
For >60 To 100 Miles Radius, Add			901.60
01 71 13 00-0012	EA	150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	2,795.73
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			698.93
For >60 To 100 Miles Radius, Add			1,118.29
01 71 13 00-0013	EA	250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	4,063.00
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			1,015.75
For >60 To 100 Miles Radius, Add			1,625.20
01 71 13 00-0014	EA	300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	5,804.28
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			1,451.07
For >60 To 100 Miles Radius, Add			2,321.71
01 71 13 00-0015	EA	500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	7,980.88
Note: Includes delivery and pickup.			
For >30 To 60 Miles Radius, Add			1,995.22
For >60 To 100 Miles Radius, Add			3,192.35

01 71 23 Field Engineering (01 71)

01 71 23 16 Construction Surveying (01 71 23)

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

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

01 71 23 16-0002	ACR	Survey Clear Area With Few To No Obstacles	868.95
01 71 23 16-0003	ACR	Survey Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings)	2,502.03
01 71 23 16-0004	ACR	Survey Clear Area With Few Structures, And/Or Wooded (5-25% Buildings)	3,586.92
01 71 23 16-0005	ACR	Survey Developed Areas With Several Structures (25-65% Buildings)	5,442.05
01 71 23 16-0006	ACR	Survey Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings)	6,831.51

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

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

01 71 23 16-0008	LF	Survey Property Lines On Cleared Land	2.08

01 General Requirements**01 70 Execution And Closeout Requirements****01 71 Examination And Preparation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0009	LF	Survey Property Lines On Slightly Wooded Land	2.41	
01 71 23 16-0010	LF	Survey Property Lines On Wooded Land.....	2.82	
01 71 23 16-0011		Survey Monument (01 71 23 16)		
01 71 23 16-0012	EA	3' Precast Survey Monument.....	132.86	
		<i>For Owner Furnished Monument, Deduct</i>	-58.65	
01 71 23 16-0013	EA	Precast Survey Monument Box With Cast Iron Frame And Cover.....	185.00	
01 71 23 16-0014	EA	Riser Ring For Survey Monument.....	92.95	
01 71 23 16-0015	EA	Adjust Survey Monument Cover To Grade.....	58.65	
01 71 23 16-0016		Facade Surveying (01 71 23 16)		
01 71 23 16-0017	LF	Facade Survey And Reports (LF Of Facade x Number Of Floors).....	5.71	
01 71 23 16-0018		Utility Survey (01 71 23 16)		
		Note: This survey is only for the location of underground utilities.		
01 71 23 16-0019	ACR	Survey Clear Area For Underground Utilities.....	4,724.01	
01 71 36		Non-Destructive Concrete Examination (01 71)		
01 71 36 00-0001		Electromagnetic Survey (01 71 36)		
		Note: To locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR). Includes printed reports.		
01 71 36 00-0002		Electromagnetic Survey Minimum Set-Up Charge (01 71 36 00-0001)		
01 71 36 00-0003	EA	Electromagnetic Survey Minimum Set-Up Charge.....	746.69	
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
01 71 36 00-0004		Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)		
01 71 36 00-0005	EA	Electromagnetic (SIR/GPR) Survey Up To 4 SF Of Concrete, Masonry Or Asphalt.....	303.65	
01 71 36 00-0006	EA	Electromagnetic (SIR/GPR) Survey >4 To 500 SF Of Concrete, Masonry Or Asphalt	607.30	
01 71 36 00-0007	SF	Electromagnetic (SIR/GPR) Survey >500 SF Of Concrete, Masonry Or Asphalt.....	1.21	
01 74		Cleaning And Waste Management (01 70)		
01 74 13		Progress Cleaning (01 74)		
		Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.		
01 74 13 00-0001		General (01 74 13)		
01 74 13 00-0002	CSF	Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent	16.99	
01 74 13 00-0003	CY	Collect Existing Debris And Load Into Truck Or Dumpster	19.90	
		Note: Per CY of debris removed.		
01 74 16		Site Maintenance (01 74)		
01 74 16 00-0001		Parking Lot, Roads And Pathway Maintenance (01 74 16)		
		Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Do not use these tasks in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		
01 74 16 00-0002		Parking Lot, Road, And Street Sweeping (01 74 16 00-0001)		
01 74 16 00-0003	MSF	Sweep Parking Lot, With Street Sweeper	16.96	
01 74 16 00-0004	MSF	Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	20.35	
01 74 16 00-0005		Runway Sweeping (01 74 16 00-0001)		
01 74 16 00-0006	MSF	Sweep Runway, With Street Sweep	25.44	
01 74 19		Construction Waste Management And Disposal (01 74)		
		Note: Tasks in this section shall be used as directed by owner.		
01 74 19 00-0001		Debris Chutes (01 74 19)		
		Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.		
01 74 19 00-0002		Steel Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0003	LF	18" Diameter, Steel Temporary Debris Chute.....	27.25	
01 74 19 00-0004	LF	30" Diameter, Steel Temporary Debris Chute.....	40.65	
01 74 19 00-0005		Plastic Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0006	LF	24" Diameter, Plastic Temporary Debris Chute	10.77	
		<i>For Steel Liner, Add</i>	2.04	
01 74 19 00-0007	LF	30" Diameter, Plastic Temporary Debris Chute	12.33	
		<i>For Steel Liner, Add</i>	2.34	



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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0008	LF	36" Diameter, Plastic Temporary Debris Chute For Steel Liner, Add	13.89 2.64	
01 74 19 00-0009		Wood Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0010	LF	4' x 4', Wood Temporary Debris Chute Note: Includes fabrication and installation.	20.39	
01 74 19 00-0011		Construction Dumpsters Rental (01 74 19) Note: Includes delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides & pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.		
01 74 19 00-0012	EA	10 CY Dumpster (1.5 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. For Each Ton Over Indicated Amount, Add	349.99 100.00	
01 74 19 00-0013	EA	15 CY Dumpster (2 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. For Each Ton Over Indicated Amount, Add	374.99 100.00	
01 74 19 00-0014	EA	20 CY Dumpster (3 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. For Each Ton Over Indicated Amount, Add	425.00 100.00	
01 74 19 00-0015	EA	30 CY Dumpster (4 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. For Each Ton Over Indicated Amount, Add	574.98 100.00	
01 74 19 00-0016	EA	40 CY Dumpster (5 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. For Each Ton Over Indicated Amount, Add	648.97 100.00	
01 74 19 00-0017	EA	10 CY Low-Boy Dumpster "Concrete Or Asphalt Only" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.	648.97	
01 74 19 00-0018	EA	15 CY Low-Boy Dumpster Clean Recyclable Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	621.16	
01 74 19 00-0019	EA	15 CY Low-Boy Dumpster Mixed Recyclable Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	667.51	
01 74 19 00-0020		Concrete Washout Service (01 74 19)		
01 74 19 00-0021	MO	Rampless Concrete Washout Bin Note: Includes delivery.	365.75	
01 74 19 00-0022	MO	Ramped Concrete Washout Bin Note: Includes delivery.	438.90	
01 74 19 00-0023	EA	Interim Vacuum Service, Concrete Washout Bin Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.	340.83	
01 74 19 00-0024	EA	Vacuum, Pickup, Swap And Dump, Concrete Washout Bin Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.	738.46	
01 74 19 00-0025		Debris Processing Fee (01 74 19)		
01 74 19 00-0026		Recycler Fees (01 74 19 00-0025) Note: Does not apply with use of dumpsters. Excludes hauling.		
01 74 19 00-0027	CY	Drop-Off Asphalt At Recycling Center	32.76	
01 74 19 00-0028	CY	Drop-Off Concrete At Recycling Center	24.45	
01 74 19 00-0029		Landfill Dump Fees (01 74 19 00-0025) Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0048 for hauling.		
01 74 19 00-0030	CY	Traditional Building Construction Materials Landfill Dump Fee	21.80	
01 74 19 00-0031	CY	Trees, Stumps And Brush, Landfill Dump Fee	26.24	
01 74 19 00-0032	CY	Rubbish Landfill Dump Fee	21.40	
01 74 19 00-0033	CY	Hazardous Materials And Rubbish (Paint Cans, Etcetera) Landfill Dump Fee	62.57	
01 74 19 00-0034	CY	Excavated Dirt Landfill Dump Fee	20.99	
01 74 19 00-0035	CY	Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	44.46	
01 74 19 00-0036	TON	Traditional Building Construction Materials, Landfill Dump Fee	95.00	
01 74 19 00-0037	CY	Non Reinforced Concrete And/Or Rock, 2" Minus	4.20	
01 74 19 00-0038	CY	Reinforced Concrete And/Or Rock, 2" Minus, Rebar Trimmed To 1"	5.85	
01 74 19 00-0039	CY	Reinforced Concrete not trimmed, 2" Minus	10.40	
01 74 19 00-0040	CY	Mixed Asphalt And Concrete, Sized And Trimmed	4.24	
01 74 19 00-0041	CY	Asphalt Or Asphalt And Dirt, Sized To 2" Minus	5.85	
01 74 19 00-0042	CY	Reinforced Concrete And Asphalt, Not Trimmed, 2" Minus	12.50	
01 74 19 00-0043	CY	Clean Dirt (No Grass, Weeds, Roots, Plants, Trash)	28.26	
01 74 19 00-0044	CY	Clay Loads, Expansive Materials	35.32	
01 74 19 00-0045	CY	Clean Asphalt, Sized 2" Minus, No Dirt	5.05	

01 General Requirements**01 70 Execution And Closeout Requirements****01 74 Cleaning And Waste Management**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
01 74 19 00-0046	TON	General Refuse.....		42.38	
01 74 19 00-0047	EA	Tires.....		12.95	
01 74 19 00-0048 Hauling (01 74 19)					
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.					
01 74 19 00-0049	CYM	Hauling On Paved Roads, First 15 Miles.....		0.73	
01 74 19 00-0050	CYM	Hauling On Paved Roads, Miles Over Initial 15 Miles.....		0.48	
01 74 19 00-0051	CYM	Hauling On Unimproved Roads, First 15 Miles.....		1.12	
01 74 19 00-0052	CYM	Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....		0.87	
01 74 23 Final Cleaning (01 74)					
01 74 23 00-0001 Glass (01 74 23)					
01 74 23 00-0002	CSF	Clean Existing Glass Surfaces.....		22.42	

END OF SECTION 01



Existing Conditions		02
Assessment		02 20
Existing Material Assessment		02 25

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

02 Existing Conditions

02 20 Assessment⁽⁰²⁾

02 25 Existing Material Assessment^(02 20)

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

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

02 30 Subsurface Investigation⁽⁰²⁾

02 32 Geotechnical Investigations^(02 30)

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

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

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

02 32 13 00-0002 EA Mobilization Of Drilling Crew.....903.74

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

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 27.21

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

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples 62.09

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 106.14

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

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing 66.74

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 5.93

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

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 86.00

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 6.82

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

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

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

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation 52.04

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 60.72

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation 80.96

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

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation 150.88

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation 271.58

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

02 32 13 00-0023 EA Shelby Tube Sampling 29.77

02 32 13 00-0024 EA Penetration Test 24.25

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

02 32 13 00-0026 VLF Boreholes 5.64

02 40 Demolition And Structure Moving⁽⁰²⁾

02 41 Demolition^(02 40)

02 41 13 Selective Site Demolition^(02 41)

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

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

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 13 13-0001	By Machine, Break-up And Leave In Place Bituminous And Concrete Paving ^(02 41 13 13)	
	Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting. See CSI section 02 41 13 13-0017 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0046 for saw cutting.	
02 41 13 13-0002	SY Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	5.43
	For >500 To 1,000, Deduct	-0.54
	For >1,000 To 2,500, Deduct	-0.98
	For >2,500 To 5,000, Deduct	-1.41
	For >5,000 To 10,000, Deduct	-1.85
	For >10,000, Deduct	-2.28
02 41 13 13-0003	SY >3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving	8.15
	For >500 To 1,000, Deduct	-0.82
	For >1,000 To 2,500, Deduct	-1.47
	For >2,500 To 5,000, Deduct	-2.12
	For >5,000 To 10,000, Deduct	-2.77
	For >10,000, Deduct	-3.42
02 41 13 13-0004	SY Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	9.56
	For >500 To 1,000, Deduct	-0.96
	For >1,000 To 2,500, Deduct	-1.72
	For >2,500 To 5,000, Deduct	-2.49
	For >5,000 To 10,000, Deduct	-3.25
	For >10,000, Deduct	-4.02
02 41 13 13-0005	SY >3" To 6" By Machine, Break-up And Leave In Place Concrete Paving	13.48
	For >500 To 1,000, Deduct	-1.35
	For >1,000 To 2,500, Deduct	-2.43
	For >2,500 To 5,000, Deduct	-3.50
	For >5,000 To 10,000, Deduct	-4.58
	For >10,000, Deduct	-5.66
02 41 13 13-0006	SY >6" To 9" By Machine, Break-up And Leave In Place Concrete Paving	19.10
	For >500 To 1,000, Deduct	-1.91
	For >1,000 To 2,500, Deduct	-3.44
	For >2,500 To 5,000, Deduct	-4.97
	For >5,000 To 10,000, Deduct	-6.49
	For >10,000, Deduct	-8.02
02 41 13 13-0007	SY >9" To 14" By Machine, Break-up And Leave In Place Concrete Paving.....	26.98
	For >500 To 1,000, Deduct	-2.70
	For >1,000 To 2,500, Deduct	-4.86
	For >2,500 To 5,000, Deduct	-7.01
	For >5,000 To 10,000, Deduct	-9.17
	For >10,000, Deduct	-11.33
02 41 13 13-0008	SY >14" To 19" By Machine, Break-up And Leave In Place Concrete Paving.....	35.28
	For >500 To 1,000, Deduct	-3.53
	For >1,000 To 2,500, Deduct	-6.35
	For >2,500 To 5,000, Deduct	-9.17
	For >5,000 To 10,000, Deduct	-12.00
	For >10,000, Deduct	-14.82
02 41 13 13-0009	SY >19" To 24" By Machine, Break-up And Leave In Place Concrete Paving.....	45.85
	For >500 To 1,000, Deduct	-4.59
	For >1,000 To 2,500, Deduct	-8.25
	For >2,500 To 5,000, Deduct	-11.92
	For >5,000 To 10,000, Deduct	-15.59
	For >10,000, Deduct	-19.26

02 41 13 13-0010	By Hand, Break-up And Leave In Place Bituminous And Concrete Paving ^(02 41 13 13)	
	Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting. See CSI section 02 41 13 13-0017 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0046 for saw cutting.	
02 41 13 13-0011	SF Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	1.36
02 41 13 13-0012	SF >3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	1.72
02 41 13 13-0013	SF >6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving	2.29
02 41 13 13-0014	SF Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	1.70
02 41 13 13-0015	SF >3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	2.16
02 41 13 13-0016	SF Break-Up >6" To 8" Concrete Paving By Hand With Material Left In Place After Break-up	2.85

02 41 13 13-0017	By Machine, Break-up And Remove Bituminous And Concrete Paving ^(02 41 13 13)	
	Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting. See CSI section 02 41 19 13-0046 for saw cutting.	
02 41 13 13-0018	SY Up To 3" By Machine, Break-up And Remove Bituminous Paving	10.66
	For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	3.20
	For Elevated Slab, Add	5.33
	For >500 To 1,000, Deduct	-1.07
	For >1,000 To 2,500, Deduct	-1.92
	For >2,500 To 5,000, Deduct	-2.77
	For >5,000 To 10,000, Deduct	-3.62
	For >10,000, Deduct	-4.48



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

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0019 SY >3" To 6" By Machine, Break-up And Remove Bituminous Paving.....	14.55	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.37	
For Elevated Slab, Add	7.28	
For >500 To 1,000, Deduct	-1.46	
For >1,000 To 2,500, Deduct	-2.62	
For >2,500 To 5,000, Deduct	-3.78	
For >5,000 To 10,000, Deduct	-4.95	
For >10,000, Deduct	-6.11	
02 41 13 13-0020 SY Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	12.27	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	3.68	
For Elevated Slab, Add	6.14	
For >500 To 1,000, Deduct	-1.23	
For >1,000 To 2,500, Deduct	-2.21	
For >2,500 To 5,000, Deduct	-3.19	
For >5,000 To 10,000, Deduct	-4.17	
For >10,000, Deduct	-5.15	
02 41 13 13-0021 SY >3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	16.05	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.82	
For Elevated Slab, Add	8.03	
For >500 To 1,000, Deduct	-1.61	
For >1,000 To 2,500, Deduct	-2.89	
For >2,500 To 5,000, Deduct	-4.17	
For >5,000 To 10,000, Deduct	-5.46	
For >10,000, Deduct	-6.74	
02 41 13 13-0022 SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	16.28	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.88	
For Elevated Slab, Add	8.14	
For >500 To 1,000, Deduct	-1.63	
For >1,000 To 2,500, Deduct	-2.93	
For >2,500 To 5,000, Deduct	-4.23	
For >5,000 To 10,000, Deduct	-5.54	
For >10,000, Deduct	-6.84	
02 41 13 13-0023 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	21.09	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.33	
For Elevated Slab, Add	10.55	
For >500 To 1,000, Deduct	-2.11	
For >1,000 To 2,500, Deduct	-3.80	
For >2,500 To 5,000, Deduct	-5.48	
For >5,000 To 10,000, Deduct	-7.17	
For >10,000, Deduct	-8.86	
02 41 13 13-0024 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	34.96	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	10.49	
For Elevated Slab, Add	17.48	
For >500 To 1,000, Deduct	-3.50	
For >1,000 To 2,500, Deduct	-6.29	
For >2,500 To 5,000, Deduct	-9.09	
For >5,000 To 10,000, Deduct	-11.89	
For >10,000, Deduct	-14.68	
02 41 13 13-0025 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	17.65	
For Elevated Slab, Add	8.83	
For >500 To 1,000, Deduct	-1.77	
For >1,000 To 2,500, Deduct	-3.18	
For >2,500 To 5,000, Deduct	-4.59	
For >5,000 To 10,000, Deduct	-6.00	
For >10,000, Deduct	-7.41	
02 41 13 13-0026 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	22.70	
For Elevated Slab, Add	11.35	
For >500 To 1,000, Deduct	-2.27	
For >1,000 To 2,500, Deduct	-4.09	
For >2,500 To 5,000, Deduct	-5.90	
For >5,000 To 10,000, Deduct	-7.72	
For >10,000, Deduct	-9.53	
02 41 13 13-0027 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	40.58	
For Elevated Slab, Add	20.29	
For >500 To 1,000, Deduct	-4.06	
For >1,000 To 2,500, Deduct	-7.30	
For >2,500 To 5,000, Deduct	-10.55	
For >5,000 To 10,000, Deduct	-13.80	
For >10,000, Deduct	-17.04	
02 41 13 13-0028 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	52.96	
For Elevated Slab, Add	26.48	
For >500 To 1,000, Deduct	-5.30	
For >1,000 To 2,500, Deduct	-9.53	
For >2,500 To 5,000, Deduct	-13.77	
For >5,000 To 10,000, Deduct	-18.01	
For >10,000, Deduct	-22.24	
02 41 13 13-0029 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	69.24	
For Elevated Slab, Add	34.62	
For >500 To 1,000, Deduct	-6.92	
For >1,000 To 2,500, Deduct	-12.46	
For >2,500 To 5,000, Deduct	-18.00	
For >5,000 To 10,000, Deduct	-23.54	
For >10,000, Deduct	-29.08	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0030 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	84.03	
For Elevated Slab, Add	42.02	
For >500 To 1,000, Deduct	-8.40	
For >1,000 To 2,500, Deduct	-15.13	
For >2,500 To 5,000, Deduct	-21.85	
For >5,000 To 10,000, Deduct	-28.57	
For >10,000, Deduct	-35.29	
02 41 13 13-0031 By Hand, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13)		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0046 for saw cutting.		
02 41 13 13-0032 SF >6" To 8" By Hand, Break-up And Remove Bituminous Paving.....	5.19	
02 41 13 13-0033 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	3.80	
02 41 13 13-0034 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	5.24	
02 41 13 13-0035 SF >6" To 8" By Hand, Break-up And Remove Concrete Paving.....	6.71	
02 41 13 13-0036 Grind Concrete (02 41 13 13)		
02 41 13 13-0037 EA Grind Existing Sidewalks Up To 1/2" Depth To Remove Ridges (Tripping Hazard).....	181.45	
Note: For each location up to 5' wide, feather up to 12" each direction.		
For >1/2" To 1" Depth Of Grinding, Add	27.22	
For >1" To 1-1/2" Depth Of Grinding, Add	45.36	
For Up To 5, Add	36.29	
For >5 To 10, Add	18.15	
For >25 To 50, Deduct	-18.15	
For >50 To 250, Deduct	-27.22	
For >250, Deduct	-36.29	
For Sidewalks >5', Add	18.15	
For Up To 12" Additional Feathering Per Side, Add	18.15	
02 41 13 13-0038 Repair Uneven Sidewalks (02 41 13 13)		
Note: (1 inch foot = 1 inch high X 1 linear foot long). Example for sample trip hazard: 1/2" high on one side, Zero on the other side, 4 linear foot long. Calculation for height would be: (1/2 +0)/2=1/4 inch average. Calculation for length would be: 1/4 inch average X 4 feet = 1 inch foot.		
02 41 13 13-0039 IF Up To 2000 Inch Feet Repair Uneven Sidewalks	62.36	
02 41 13 13-0040 IF 2000 To 3000 Inch Feet Repair Uneven Sidewalks	59.16	
02 41 13 13-0041 IF 3000 And Up Inch Feet Repair Uneven Sidewalks	55.96	
02 41 19 Selective Demolition (02 41)		
02 41 19 13 Selective Building Demolition (02 41 19)		
02 41 19 13-0001 Exterior Masonry Removal (02 41 19 13)		
02 41 19 13-0002 Masonry Columns Removal (Interior And Exterior) (02 41 19 13-0001)		
02 41 19 13-0003 VLF 8" x 8" Masonry Column Removal	11.38	
02 41 19 13-0004 VLF 10" x 10" Masonry Column Removal	17.78	
02 41 19 13-0005 VLF 12" x 12" Masonry Column Removal	22.77	
02 41 19 13-0006 VLF 14" x 14" Masonry Column Removal	28.50	
02 41 19 13-0007 VLF 16" x 16" Masonry Column Removal	35.01	
02 41 19 13-0008 CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	19.66	
02 41 19 13-0009 Masonry Chimney Removal (02 41 19 13-0001)		
02 41 19 13-0010 CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	23.07	
02 41 19 13-0011 CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	17.32	
02 41 19 13-0012 CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	13.25	
02 41 19 13-0013 CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	9.18	
02 41 19 13-0014 Remove And Reset Precast, Stone Or Masonry Coping (02 41 19 13-0001)		
Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0046 for saw cutting.		
02 41 19 13-0015 LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	16.63	
02 41 19 13-0016 LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	24.55	
02 41 19 13-0017 LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	46.31	
02 41 19 13-0018 Facade Removal (02 41 19 13-0001)		
Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0046 for saw cutting.		
02 41 19 13-0019 SF Stone Or Brick Veneer Facade Removal	4.33	
For Cleaning and Storage For Reuse, Add	3.25	
For Reinforcing, Add	0.65	



Existing Conditions		02
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Demolition		02 41

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0020			Exterior Masonry Removal (02 41 19 13-0001) Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0046 for saw cutting.		
02 41 19 13-0021	SF		Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall.....	3.81	
02 41 19 13-0022	SF		Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall.....	4.30	
02 41 19 13-0023	SF		Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall.....	5.20	
02 41 19 13-0024	SF		Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall.....	5.68	
02 41 19 13-0025	SF		Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall.....	6.23	
02 41 19 13-0026	SF		Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall.....	7.80	
02 41 19 13-0027	SF		Demolish 4" Thick Reinforced Concrete Block Exterior Wall.....	4.50	
02 41 19 13-0028	SF		Demolish 6" Thick Reinforced Concrete Block Exterior Wall.....	5.16	
02 41 19 13-0029	SF		Demolish 8" Thick Reinforced Concrete Block Exterior Wall.....	6.23	
02 41 19 13-0030	SF		Demolish 10" Thick Reinforced Concrete Block Exterior Wall.....	6.82	
02 41 19 13-0031	SF		Demolish 12" Thick Reinforced Concrete Block Exterior Wall.....	7.48	
02 41 19 13-0032	SF		Demolish 16" Thick Reinforced Concrete Block Exterior Wall.....	9.36	
02 41 19 13-0033	SF		Demolish 4" Thick Brick Exterior Wall.....	3.81	
			For Cleaning and Storage For Reuse, Add.....	2.86	
02 41 19 13-0034	SF		Demolish 6" Thick Brick Exterior Wall.....	4.30	
			For Cleaning and Storage For Reuse, Add.....	3.23	
02 41 19 13-0035	SF		Demolish 8" Thick Brick Exterior Wall.....	5.20	
			For Cleaning and Storage For Reuse, Add.....	3.90	
02 41 19 13-0036	SF		Demolish 10" Thick Brick Exterior Wall.....	5.68	
			For Cleaning and Storage For Reuse, Add.....	4.26	
02 41 19 13-0037	SF		Demolish 12" Thick Brick Exterior Wall.....	6.23	
			For Cleaning and Storage For Reuse, Add.....	4.67	
02 41 19 13-0038	SF		Demolish 16" Thick Brick Exterior Wall.....	7.80	
			For Cleaning and Storage For Reuse, Add.....	5.85	
02 41 19 13-0039	CF		Exterior Brick, Concrete Block Or Composite Removal.....	11.08	
			For Cleaning and Storage For Reuse, Add.....	8.31	
			For Reinforcing, Add.....	1.66	
02 41 19 13-0040			Exterior Concrete Wall Removal (02 41 19 13) Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0041	SF		Demolish 4" Thick Reinforced Concrete Exterior Wall.....	5.10	
02 41 19 13-0042	SF		Demolish 6" Thick Reinforced Concrete Exterior Wall.....	9.27	
02 41 19 13-0043	SF		Demolish 8" Thick Reinforced Concrete Exterior Wall.....	11.65	
02 41 19 13-0044	SF		Demolish 10" Thick Reinforced Concrete Exterior Wall.....	13.73	
02 41 19 13-0045	SF		Demolish 12" Thick Reinforced Concrete Exterior Wall.....	16.24	
02 41 19 13-0046			Saw Cutting (02 41 19 13) Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0047	LF		Saw Cut Bituminous Paving Up To 4" Depth.....	1.71	
			For Each Additional Pass (Depth To 3"), Add.....	0.66	
			For >250, Deduct.....	-0.16	
02 41 19 13-0048	LF		Saw Cut Brick Masonry Up To 4" Depth.....	6.51	
			For Each Additional Pass (Depth To 3"), Add.....	2.58	
			For >250, Deduct.....	-0.64	
02 41 19 13-0049	LF		Saw Cut Concrete Block Up To 4" Depth.....	5.88	
			For Each Additional Pass (Depth To 3"), Add.....	2.33	
			For >250, Deduct.....	-0.58	
02 41 19 13-0050	LF		Saw Cut Non Reinforced Concrete Slab Or Paving Up To 4" Depth.....	1.98	
			For Each Additional Pass (Depth To 3"), Add.....	0.76	
			For >250, Deduct.....	-0.19	
02 41 19 13-0051	LF		Saw Cut Welded Wire Reinforced Concrete Slab Up To 4" Depth.....	2.60	
			For Each Additional Pass (Depth To 3"), Add.....	1.01	
			For >250, Deduct.....	-0.25	
02 41 19 13-0052	LF		Saw Cut Rod Reinforced Concrete Slab Up To 4" Depth.....	4.31	
			For Each Additional Pass (Depth To 3"), Add.....	1.69	
			For >250, Deduct.....	-0.42	
02 41 19 13-0053	LF		Saw Cut Plain Concrete Walls Up To 4" Depth.....	8.33	
			For Each Additional Pass (Depth To 3"), Add.....	3.30	
			For >250, Deduct.....	-0.82	
02 41 19 13-0054	LF		Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth.....	11.18	
			For Each Additional Pass (Depth To 3"), Add.....	4.44	
			For >250, Deduct.....	-1.11	
02 41 19 13-0055	LF		Saw Cut In Streets, Concrete And Asphalt Up To 4" Depth.....	2.13	
			For Each Additional Pass (Depth To 3"), Add.....	0.78	
			For >250, Deduct.....	-0.19	
02 41 19 13-0056	LF		Saw Cut Igneous Stone Pavements Up To 4" Depth.....	5.90	
			For Each Additional Pass (Depth To 3"), Add.....	2.33	
			For >250, Deduct.....	-0.58	
02 41 19 13-0057	LF		Saw Cut Sedimentary Stone Pavements Up To 4" Depth.....	5.90	
			For Each Additional Pass (Depth To 3"), Add.....	2.33	
			For >250, Deduct.....	-0.58	
02 41 19 13-0058	LF		Saw Cut Metamorphic Stone Pavements Up To 4" Depth.....	5.90	
			For Each Additional Pass (Depth To 3"), Add.....	2.33	
			For >250, Deduct.....	-0.58	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0059	LF	Saw Cut Terrazzo Stone Pavements Up To 4" Depth.....	5.90	
		For Each Additional Pass (Depth To 3"), Add	2.33	
		For >250, Deduct	-0.58	
02 41 19 13-0060	EA	Saw Cut Minimum Set-up Charge, One Per Project	752.28	
		Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0061 Torch Cutting (02 41 19 13)				
		Note: Includes grinding edge		
02 41 19 13-0062	LF	Up To 1/2", Torch Cut Steel Plate.....	2.31	
02 41 19 13-0063	LF	>1/2" To 1" Thick, Torch Cut Steel Plate.....	4.63	
02 41 19 13-0064	LF	>1" To 1-1/2" Thick, Torch Cut Steel Plate	6.94	
02 41 19 13-0065	LF	>1-1/2" To 2" Thick, Torch Cut Steel Plate	9.23	
02 41 19 13-0066	LF	>2" To 2-1/2" Thick, Torch Cut Steel Plate	11.55	
02 41 19 13-0067	LF	>2-1/2" To 3" Thick, Torch Cut Steel Plate	13.86	
02 41 19 13-0068	EA	Torch Cutting Minimum Charge	703.96	
		Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0069 Drilling (02 41 19 13)				
		Note: Includes drill bit wear, water, layout, set-up and clean-up.		
02 41 19 13-0070 Concrete Core Drilling (02 41 19 13-0069)				
02 41 19 13-0071 Up To 4" Thick Concrete Core Drilling (02 41 19 13-0070)				
02 41 19 13-0072	EA	Drill 1" Diameter Core In Up To 4" Concrete.....	33.04	
		For Horizontal Cores, Add	6.30	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.61	
02 41 19 13-0073	EA	Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	36.53	
		For Horizontal Cores, Add	7.00	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.00	
02 41 19 13-0074	EA	Drill 2" Diameter Core In Up To 4" Concrete.....	40.43	
		For Horizontal Cores, Add	7.78	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.56	
02 41 19 13-0075	EA	Drill 3" Diameter Core In Up To 4" Concrete.....	57.64	
		For Horizontal Cores, Add	11.12	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.24	
02 41 19 13-0076	EA	Drill 4" Diameter Core In Up To 4" Concrete.....	77.24	
		For Horizontal Cores, Add	14.90	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.79	
02 41 19 13-0077	EA	Drill 6" Diameter Core In Up To 4" Concrete.....	86.85	
		For Horizontal Cores, Add	16.68	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.35	
02 41 19 13-0078	EA	Drill 8" Diameter Core In Up To 4" Concrete.....	138.18	
		For Horizontal Cores, Add	26.68	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	53.37	
02 41 19 13-0079	EA	Drill 10" Diameter Core In Up To 4" Concrete.....	173.27	
		For Horizontal Cores, Add	33.35	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.71	
02 41 19 13-0080	EA	Drill 12" Diameter Core In Up To 4" Concrete.....	202.36	
		For Horizontal Cores, Add	38.91	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	77.83	
02 41 19 13-0081	EA	Drill 14" Diameter Core In Up To 4" Concrete.....	231.60	
		For Horizontal Cores, Add	44.47	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	88.93	
02 41 19 13-0082	EA	Drill 18" Diameter Core In Up To 4" Concrete.....	262.01	
		For Horizontal Cores, Add	50.02	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.04	
02 41 19 13-0083 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0070)				
02 41 19 13-0084	EA	Drill 1" Diameter Core In >4" To 6" Concrete.....	47.36	
		For Horizontal Cores, Add	9.00	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.01	
02 41 19 13-0085	EA	Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	52.35	
		For Horizontal Cores, Add	10.00	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.00	
02 41 19 13-0086	EA	Drill 2" Diameter Core In >4" To 6" Concrete.....	57.91	
		For Horizontal Cores, Add	11.11	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.23	
02 41 19 13-0087	EA	Drill 3" Diameter Core In >4" To 6" Concrete.....	69.91	
		For Horizontal Cores, Add	13.34	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.68	
02 41 19 13-0088	EA	Drill 4" Diameter Core In >4" To 6" Concrete.....	87.62	
		For Horizontal Cores, Add	16.68	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.35	
02 41 19 13-0089	EA	Drill 6" Diameter Core In >4" To 6" Concrete.....	116.45	
		For Horizontal Cores, Add	22.23	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	44.47	
02 41 19 13-0090	EA	Drill 8" Diameter Core In >4" To 6" Concrete.....	173.98	
		For Horizontal Cores, Add	33.35	
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.71	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0091 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	204.29	
For Horizontal Cores, Add	38.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	77.83	
02 41 19 13-0092 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	233.98	
For Horizontal Cores, Add	44.47	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	88.93	
02 41 19 13-0093 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	264.27	
For Horizontal Cores, Add	50.02	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.04	
02 41 19 13-0094 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	296.27	
For Horizontal Cores, Add	55.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.17	
02 41 19 13-0095 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0070)		
02 41 19 13-0096 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	52.70	
For Horizontal Cores, Add	9.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.81	
02 41 19 13-0097 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	58.20	
For Horizontal Cores, Add	11.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.01	
02 41 19 13-0098 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	64.32	
For Horizontal Cores, Add	12.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.46	
02 41 19 13-0099 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	76.63	
For Horizontal Cores, Add	14.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.91	
02 41 19 13-0100 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	100.22	
For Horizontal Cores, Add	18.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	37.80	
02 41 19 13-0101 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	140.50	
For Horizontal Cores, Add	26.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	53.37	
02 41 19 13-0102 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	231.98	
For Horizontal Cores, Add	44.47	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	88.93	
02 41 19 13-0103 EA Drill 10" Diameter Core In >6" To 8" Concrete.....	263.04	
For Horizontal Cores, Add	50.02	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.04	
02 41 19 13-0104 EA Drill 12" Diameter Core In >6" To 8" Concrete.....	293.44	
For Horizontal Cores, Add	55.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.17	
02 41 19 13-0105 EA Drill 14" Diameter Core In >6" To 8" Concrete.....	324.72	
For Horizontal Cores, Add	61.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	122.27	
02 41 19 13-0106 EA Drill 18" Diameter Core In >6" To 8" Concrete.....	358.30	
For Horizontal Cores, Add	66.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	133.41	
02 41 19 13-0107 >8" To 10" Thick Concrete Core Drilling (02 41 19 13-0070)		
02 41 19 13-0108 EA Drill 1" Diameter Core In >8" To 10" Concrete.....	62.55	
For Horizontal Cores, Add	11.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.42	
02 41 19 13-0109 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	69.05	
For Horizontal Cores, Add	13.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.02	
02 41 19 13-0110 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	76.27	
For Horizontal Cores, Add	14.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.90	
02 41 19 13-0111 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	88.90	
For Horizontal Cores, Add	16.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.35	
02 41 19 13-0112 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	101.70	
For Horizontal Cores, Add	18.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	37.80	
02 41 19 13-0113 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	142.30	
For Horizontal Cores, Add	26.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	53.37	
02 41 19 13-0114 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	234.43	
For Horizontal Cores, Add	44.47	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	88.93	
02 41 19 13-0115 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	266.26	
For Horizontal Cores, Add	50.02	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.04	
02 41 19 13-0116 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	297.25	
For Horizontal Cores, Add	55.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.15	
02 41 19 13-0117 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	329.61	
For Horizontal Cores, Add	61.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	122.27	
02 41 19 13-0118 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	364.67	
For Horizontal Cores, Add	66.69	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	133.38	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0119 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0070)		
02 41 19 13-0120 EA Drill 1" Diameter Core In >10" To 12" Concrete	67.89	
For Horizontal Cores, Add	12.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.22	
02 41 19 13-0121 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete	74.89	
For Horizontal Cores, Add	14.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.02	
02 41 19 13-0122 EA Drill 2" Diameter Core In >10" To 12" Concrete	82.68	
For Horizontal Cores, Add	15.57	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.13	
02 41 19 13-0123 EA Drill 3" Diameter Core In >10" To 12" Concrete	90.06	
For Horizontal Cores, Add	16.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.35	
02 41 19 13-0124 EA Drill 4" Diameter Core In >10" To 12" Concrete	119.85	
For Horizontal Cores, Add	22.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	44.47	
02 41 19 13-0125 EA Drill 6" Diameter Core In >10" To 12" Concrete	155.22	
For Horizontal Cores, Add	28.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	57.82	
02 41 19 13-0126 EA Drill 8" Diameter Core In >10" To 12" Concrete	248.01	
For Horizontal Cores, Add	46.69	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.39	
02 41 19 13-0127 EA Drill 10" Diameter Core In >10" To 12" Concrete	269.48	
For Horizontal Cores, Add	50.02	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.04	
02 41 19 13-0128 EA Drill 12" Diameter Core In >10" To 12" Concrete	312.31	
For Horizontal Cores, Add	57.82	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	115.63	
02 41 19 13-0129 >12" Thick Concrete Core Drilling (02 41 19 13-0070)		
02 41 19 13-0130 IN Drill 1" Diameter Core In >12" Concrete	8.10	
For Horizontal Cores, Add	1.54	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.08	
02 41 19 13-0131 IN Drill 1-1/2" Diameter Core In >12" Concrete	8.96	
For Horizontal Cores, Add	1.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.42	
02 41 19 13-0132 IN Drill 2" Diameter Core In >12" Concrete	9.91	
For Horizontal Cores, Add	1.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.80	
02 41 19 13-0133 IN Drill 3" Diameter Core In >12" Concrete	10.98	
For Horizontal Cores, Add	2.08	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.17	
02 41 19 13-0134 IN Drill 4" Diameter Core In >12" Concrete	14.61	
For Horizontal Cores, Add	2.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.56	
02 41 19 13-0135 IN Drill 6" Diameter Core In >12" Concrete	18.96	
For Horizontal Cores, Add	3.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	7.23	
02 41 19 13-0136 IN Drill 8" Diameter Core In >12" Concrete	30.42	
For Horizontal Cores, Add	5.84	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.68	
02 41 19 13-0137 IN Drill 10" Diameter Core In >12" Concrete	33.01	
For Horizontal Cores, Add	6.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.56	
02 41 19 13-0138 IN Drill 12" Diameter Core In >12" Concrete	38.10	
For Horizontal Cores, Add	7.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.46	
02 41 19 13-0139 Brick/Concrete Block Core Drilling (02 41 19 13-0069)		
02 41 19 13-0140 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0139)		
02 41 19 13-0141 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	26.74	
For Horizontal Cores, Add	5.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	10.09	
02 41 19 13-0142 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	29.53	
For Horizontal Cores, Add	5.60	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.20	
02 41 19 13-0143 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	32.65	
For Horizontal Cores, Add	6.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.45	
02 41 19 13-0144 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	46.53	
For Horizontal Cores, Add	8.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.79	
02 41 19 13-0145 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	62.35	
For Horizontal Cores, Add	11.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.84	
02 41 19 13-0146 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	70.18	
For Horizontal Cores, Add	13.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.68	



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0147	EA		Drill 8" Diameter Core In Up To 4" Brick/Concrete Block.....	111.50	
			For Horizontal Cores, Add	21.35	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	42.70	
02 41 19 13-0148	EA		Drill 10" Diameter Core In Up To 4" Brick/Concrete Block.....	139.92	
			For Horizontal Cores, Add	26.68	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	53.37	
02 41 19 13-0149	EA		Drill 12" Diameter Core In Up To 4" Brick/Concrete Block.....	163.45	
			For Horizontal Cores, Add	31.13	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.26	
02 41 19 13-0150	EA		Drill 14" Diameter Core In Up To 4" Brick/Concrete Block.....	187.14	
			For Horizontal Cores, Add	35.57	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	71.15	
02 41 19 13-0151	EA		Drill 18" Diameter Core In Up To 4" Brick/Concrete Block.....	212.00	
			For Horizontal Cores, Add	40.02	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	80.04	
02 41 19 13-0152 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0139)					
02 41 19 13-0153	EA		Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block.....	38.35	
			For Horizontal Cores, Add	7.20	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.40	
02 41 19 13-0154	EA		Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block.....	42.36	
			For Horizontal Cores, Add	8.00	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.01	
02 41 19 13-0155	EA		Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block.....	46.80	
			For Horizontal Cores, Add	8.89	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.78	
02 41 19 13-0156	EA		Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block.....	56.56	
			For Horizontal Cores, Add	10.67	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.34	
02 41 19 13-0157	EA		Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block.....	70.95	
			For Horizontal Cores, Add	13.34	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.68	
02 41 19 13-0158	EA		Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block.....	94.22	
			For Horizontal Cores, Add	17.79	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	35.58	
02 41 19 13-0159	EA		Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block.....	140.63	
			For Horizontal Cores, Add	26.68	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	53.37	
02 41 19 13-0160	EA		Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block.....	165.38	
			For Horizontal Cores, Add	31.13	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.26	
02 41 19 13-0161	EA		Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block.....	189.52	
			For Horizontal Cores, Add	35.57	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	71.15	
02 41 19 13-0162	EA		Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block.....	214.26	
			For Horizontal Cores, Add	40.02	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	80.04	
02 41 19 13-0163	EA		Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block.....	240.68	
			For Horizontal Cores, Add	44.47	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	88.94	
02 41 19 13-0164 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0139)					
02 41 19 13-0165	EA		Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block.....	42.80	
			For Horizontal Cores, Add	7.93	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.85	
02 41 19 13-0166	EA		Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block.....	47.20	
			For Horizontal Cores, Add	8.81	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.61	
02 41 19 13-0167	EA		Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block.....	52.08	
			For Horizontal Cores, Add	9.78	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.56	
02 41 19 13-0168	EA		Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block.....	62.17	
			For Horizontal Cores, Add	11.56	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.12	
02 41 19 13-0169	EA		Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block.....	81.31	
			For Horizontal Cores, Add	15.12	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.24	
02 41 19 13-0170	EA		Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block.....	113.82	
			For Horizontal Cores, Add	21.35	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	42.70	
02 41 19 13-0171	EA		Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block.....	187.52	
			For Horizontal Cores, Add	35.57	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	71.15	
02 41 19 13-0172	EA		Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block.....	213.03	
			For Horizontal Cores, Add	40.02	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	80.04	
02 41 19 13-0173	EA		Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block.....	237.85	
			For Horizontal Cores, Add	44.47	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	88.94	
02 41 19 13-0174	EA		Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block.....	263.59	
			For Horizontal Cores, Add	48.91	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	97.82	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0175 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block 291.59 For Horizontal Cores, Add 53.36 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 106.73		
02 41 19 13-0176 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0139)		
02 41 19 13-0177 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block 50.83 For Horizontal Cores, Add 9.36 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 18.73		
02 41 19 13-0178 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block 56.04 For Horizontal Cores, Add 10.41 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 20.81		
02 41 19 13-0179 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block 61.82 For Horizontal Cores, Add 11.56 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 23.12		
02 41 19 13-0180 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block 72.23 For Horizontal Cores, Add 13.34 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 26.68		
02 41 19 13-0181 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block 82.79 For Horizontal Cores, Add 15.12 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 30.24		
02 41 19 13-0182 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block 115.62 For Horizontal Cores, Add 21.35 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 42.70		
02 41 19 13-0183 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block 189.97 For Horizontal Cores, Add 35.57 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 71.15		
02 41 19 13-0184 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block 216.25 For Horizontal Cores, Add 40.02 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 80.04		
02 41 19 13-0185 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block 241.67 For Horizontal Cores, Add 44.46 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 88.92		
02 41 19 13-0186 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block 268.48 For Horizontal Cores, Add 48.91 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 97.82		
02 41 19 13-0187 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block 297.97 For Horizontal Cores, Add 53.35 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 106.70		
02 41 19 13-0188 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0139)		
02 41 19 13-0189 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block 55.29 For Horizontal Cores, Add 10.09 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 20.18		
02 41 19 13-0190 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block 60.88 For Horizontal Cores, Add 11.21 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 22.41		
02 41 19 13-0191 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block 67.11 For Horizontal Cores, Add 12.45 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 24.90		
02 41 19 13-0192 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block 73.39 For Horizontal Cores, Add 13.34 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 26.68		
02 41 19 13-0193 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block 97.62 For Horizontal Cores, Add 17.79 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 35.58		
02 41 19 13-0194 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block 126.31 For Horizontal Cores, Add 23.13 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 46.25		
02 41 19 13-0195 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block 201.32 For Horizontal Cores, Add 37.36 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 74.71		
02 41 19 13-0196 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block 219.47 For Horizontal Cores, Add 40.02 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 80.04		
02 41 19 13-0197 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block 254.50 For Horizontal Cores, Add 46.25 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 92.51		
02 41 19 13-0198 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0139)		
02 41 19 13-0199 IN Drill 1" Diameter Core In >12" Brick/Concrete Block 6.57 For Horizontal Cores, Add 1.23 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 2.47		
02 41 19 13-0200 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block 7.25 For Horizontal Cores, Add 1.37 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 2.74		
02 41 19 13-0201 IN Drill 2" Diameter Core In >12" Brick/Concrete Block 8.02 For Horizontal Cores, Add 1.52 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 3.05		
02 41 19 13-0202 IN Drill 3" Diameter Core In >12" Brick/Concrete Block 8.89 For Horizontal Cores, Add 1.67 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 3.33		



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

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0203 IN Drill 4" Diameter Core In >12" Brick/Concrete Block..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	11.83 2.22 4.44	
02 41 19 13-0204 IN Drill 6" Diameter Core In >12" Brick/Concrete Block..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.35 2.89 5.78	
02 41 19 13-0205 IN Drill 8" Diameter Core In >12" Brick/Concrete Block..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.58 4.67 9.35	
02 41 19 13-0206 IN Drill 10" Diameter Core In >12" Brick/Concrete Block..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.73 5.02 10.05	
02 41 19 13-0207 IN Drill 12" Diameter Core In >12" Brick/Concrete Block..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.87 5.79 11.57	
02 41 19 13-0208 Asphalt Core Drilling (02 41 19 13-0069)		
02 41 19 13-0209 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0208)		
02 41 19 13-0210 EA Drill 1" Diameter Core In Up To 2" Asphalt	15.51	
02 41 19 13-0211 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt	19.42	
02 41 19 13-0212 EA Drill 2" Diameter Core In Up To 2" Asphalt	24.27	
02 41 19 13-0213 EA Drill 3" Diameter Core In Up To 2" Asphalt	30.14	
02 41 19 13-0214 EA Drill 4" Diameter Core In Up To 2" Asphalt	37.94	
02 41 19 13-0215 EA Drill 6" Diameter Core In Up To 2" Asphalt	47.68	
02 41 19 13-0216 EA Drill 8" Diameter Core In Up To 2" Asphalt	59.49	
02 41 19 13-0217 EA Drill 10" Diameter Core In Up To 2" Asphalt	73.98	
02 41 19 13-0218 EA Drill 12" Diameter Core In Up To 2" Asphalt	92.39	
02 41 19 13-0219 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0208)		
02 41 19 13-0220 EA Drill 1" Diameter Core In >2" To 3" Asphalt	19.38	
02 41 19 13-0221 EA Drill 1-1/2" Diameter Core In >2" To 3" Asphalt	25.19	
02 41 19 13-0222 EA Drill 2" Diameter Core In >2" To 3" Asphalt	30.99	
02 41 19 13-0223 EA Drill 3" Diameter Core In >2" To 3" Asphalt	38.80	
02 41 19 13-0224 EA Drill 4" Diameter Core In >2" To 3" Asphalt	48.54	
02 41 19 13-0225 EA Drill 6" Diameter Core In >2" To 3" Asphalt	61.16	
02 41 19 13-0226 EA Drill 8" Diameter Core In >2" To 3" Asphalt	75.89	
02 41 19 13-0227 EA Drill 10" Diameter Core In >2" To 3" Asphalt	95.18	
02 41 19 13-0228 EA Drill 12" Diameter Core In >2" To 3" Asphalt	118.41	
02 41 19 13-0229 >3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0208)		
02 41 19 13-0230 EA Drill 1" Diameter Core In >3" To 4" Asphalt	25.22	
02 41 19 13-0231 EA Drill 1-1/2" Diameter Core In >3" To 4" Asphalt	32.04	
02 41 19 13-0232 EA Drill 2" Diameter Core In >3" To 4" Asphalt	39.78	
02 41 19 13-0233 EA Drill 3" Diameter Core In >3" To 4" Asphalt	49.56	
02 41 19 13-0234 EA Drill 4" Diameter Core In >3" To 4" Asphalt	62.27	
02 41 19 13-0235 EA Drill 6" Diameter Core In >3" To 4" Asphalt	77.85	
02 41 19 13-0236 EA Drill 8" Diameter Core In >3" To 4" Asphalt	97.52	
02 41 19 13-0237 EA Drill 10" Diameter Core In >3" To 4" Asphalt	121.69	
02 41 19 13-0238 EA Drill 12" Diameter Core In >3" To 4" Asphalt	151.73	
02 41 19 13-0239 >4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0208)		
02 41 19 13-0240 EA Drill 1" Diameter Core In >4" To 6" Asphalt	33.08	
02 41 19 13-0241 EA Drill 1-1/2" Diameter Core In >4" To 6" Asphalt	40.94	
02 41 19 13-0242 EA Drill 2" Diameter Core In >4" To 6" Asphalt	50.64	
02 41 19 13-0243 EA Drill 3" Diameter Core In >4" To 6" Asphalt	64.40	
02 41 19 13-0244 EA Drill 4" Diameter Core In >4" To 6" Asphalt	80.14	
02 41 19 13-0245 EA Drill 6" Diameter Core In >4" To 6" Asphalt	99.69	
02 41 19 13-0246 EA Drill 8" Diameter Core In >4" To 6" Asphalt	125.39	
02 41 19 13-0247 EA Drill 10" Diameter Core In >4" To 6" Asphalt	156.38	
02 41 19 13-0248 EA Drill 12" Diameter Core In >4" To 6" Asphalt	195.30	
02 41 19 13-0249 Manhole Core Drilling (02 41 19 13-0069)		
02 41 19 13-0250 EA Drill 4" Diameter Core In 6" Brick Manhole	169.63	
02 41 19 13-0251 EA Drill 5" Diameter Core In 6" Brick Manhole	193.82	
02 41 19 13-0252 EA Drill 6" Diameter Core In 6" Brick Manhole	225.87	
02 41 19 13-0253 EA Drill 8" Diameter Core In 6" Brick Manhole	338.36	
02 41 19 13-0254 EA Drill 2" Diameter Core In 8" Concrete Manhole	226.76	
02 41 19 13-0255 EA Drill 3" Diameter Core In 8" Concrete Manhole	242.23	
02 41 19 13-0256 EA Drill 4" Diameter Core In 8" Concrete Manhole	267.37	
02 41 19 13-0257 EA Drill 5" Diameter Core In 8" Concrete Manhole	287.08	
02 41 19 13-0258 EA Drill 6" Diameter Core In 8" Concrete Manhole	340.09	
02 41 19 13-0259 EA Drill 8" Diameter Core In 8" Concrete Manhole	485.37	
02 41 19 13-0260 EA Drill 2" Diameter Core In Fiberglass Manhole	22.31	
02 41 19 13-0261 EA Drill 3" Diameter Core In Fiberglass Manhole	25.76	
02 41 19 13-0262 EA Drill 4" Diameter Core In Fiberglass Manhole	27.94	

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



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0263	EA	Drill 5" Diameter Core In Fiberglass Manhole	30.49	
02 41 19 13-0264	EA	Drill 6" Diameter Core In Fiberglass Manhole	33.54	
02 41 19 13-0265	EA	Drill 8" Diameter Core In Fiberglass Manhole	37.28	
02 41 19 13-0266		Drilling In Concrete Per Inch Of Depth (02 41 19 13-0069)		
		Note: Includes layout.		
02 41 19 13-0267	IN	1/4" Diameter Drilling In Concrete Per Inch Of Depth	1.76	
02 41 19 13-0268	IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	1.85	
02 41 19 13-0269	IN	1/2" Diameter Drilling In Concrete Per Inch Of Depth	1.98	
02 41 19 13-0270	IN	5/8" Diameter Drilling In Concrete Per Inch Of Depth	2.11	
02 41 19 13-0271	IN	3/4" Diameter Drilling In Concrete Per Inch Of Depth	2.31	
02 41 19 13-0272	IN	7/8" Diameter Drilling In Concrete Per Inch Of Depth	2.52	
02 41 19 13-0273	IN	1" Diameter Drilling In Concrete Per Inch Of Depth	2.64	
02 41 19 13-0274	IN	1-1/4" Diameter Drilling In Concrete Per Inch Of Depth	2.92	
02 41 19 13-0275	IN	1-1/2" Diameter Drilling In Concrete Per Inch Of Depth	3.29	
02 41 19 13-0276		Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0069)		
		Note: Includes layout.		
02 41 19 13-0277	IN	1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.47	
02 41 19 13-0278	IN	3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.54	
02 41 19 13-0279	IN	1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.66	
02 41 19 13-0280	IN	5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.76	
02 41 19 13-0281	IN	3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.93	
02 41 19 13-0282	IN	7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.10	
02 41 19 13-0283	IN	1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.21	
02 41 19 13-0284	IN	1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.43	
02 41 19 13-0285	IN	1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.90	
02 41 19 13-0286		Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0069)		
		Note: Includes layout.		
02 41 19 13-0287	IN	1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.73	
02 41 19 13-0288	IN	3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.77	
02 41 19 13-0289	IN	1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.83	
02 41 19 13-0290	IN	5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.88	
02 41 19 13-0291	IN	3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.96	
02 41 19 13-0292	IN	7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.04	
02 41 19 13-0293	IN	1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.09	
02 41 19 13-0294	IN	1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.21	
02 41 19 13-0295	IN	1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.39	
02 41 19 13-0296		Limestone Core Drilling (02 41 19 13-0069)		
02 41 19 13-0297		10" To 14" Thick Limestone Core Drilling (02 41 19 13-0296)		
02 41 19 13-0298	EA	Drill 1" Diameter Core In 10" To 14" Limestone	49.57	
02 41 19 13-0299	EA	Drill 1-1/2" Diameter Core In 10" To 14" Limestone	59.69	
02 41 19 13-0300	EA	Drill 2" Diameter Core In 10" To 14" Limestone	65.05	
02 41 19 13-0301	EA	Drill 3" Diameter Core In 10" To 14" Limestone	75.78	
02 41 19 13-0302	EA	Drill 4" Diameter Core In 10" To 14" Limestone	86.62	
02 41 19 13-0303	EA	Drill 6" Diameter Core In 10" To 14" Limestone	121.27	
02 41 19 13-0304	EA	Drill 8" Diameter Core In 10" To 14" Limestone	199.98	
02 41 19 13-0305		15" To 18" Thick Limestone Core Drilling (02 41 19 13-0296)		
02 41 19 13-0306	EA	Drill 1" Diameter Core In 15" To 18" Limestone	54.74	
02 41 19 13-0307	EA	Drill 1-1/2" Diameter Core In 15" To 18" Limestone	64.99	
02 41 19 13-0308	EA	Drill 2" Diameter Core In 15" To 18" Limestone	70.48	
02 41 19 13-0309	EA	Drill 3" Diameter Core In 15" To 18" Limestone	76.70	
02 41 19 13-0310	EA	Drill 4" Diameter Core In 15" To 18" Limestone	102.08	
02 41 19 13-0311	EA	Drill 6" Diameter Core In 15" To 18" Limestone	132.21	
02 41 19 13-0312	EA	Drill 8" Diameter Core In 15" To 18" Limestone	211.51	
02 41 19 13-0313		19" To 24" Thick Limestone Core Drilling (02 41 19 13-0296)		
02 41 19 13-0314	EA	Drill 1" Diameter Core In 19" To 24" Limestone	59.86	
02 41 19 13-0315	EA	Drill 1-1/2" Diameter Core In 19" To 24" Limestone	70.22	
02 41 19 13-0316	EA	Drill 2" Diameter Core In 19" To 24" Limestone	75.82	
02 41 19 13-0317	EA	Drill 3" Diameter Core In 19" To 24" Limestone	87.00	
02 41 19 13-0318	EA	Drill 4" Diameter Core In 19" To 24" Limestone	122.16	
02 41 19 13-0319	EA	Drill 6" Diameter Core In 19" To 24" Limestone	152.54	
02 41 19 13-0320	EA	Drill 8" Diameter Core In 19" To 24" Limestone	227.67	
02 41 19 13-0321		Minimum Charge For Core Drilling (02 41 19 13-0069)		



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

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0322 EA Core Drill Minimum Charge.....	609.33	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".		
02 41 19 13-0323 Cutouts (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0324 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0323)		
02 41 19 13-0325 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	38.50	
02 41 19 13-0326 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	40.82	
02 41 19 13-0327 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	43.16	
02 41 19 13-0328 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	45.50	
02 41 19 13-0329 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	46.66	
02 41 19 13-0330 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0323)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0331 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	46.92	
02 41 19 13-0332 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	49.76	
02 41 19 13-0333 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	52.61	
02 41 19 13-0334 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	55.45	
02 41 19 13-0335 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	56.87	
02 41 19 13-0336 Reinforced Concrete Wall Cutouts (02 41 19 13-0323)		
02 41 19 13-0337 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF	48.12	
02 41 19 13-0338 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF	51.04	
02 41 19 13-0339 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF	53.95	
02 41 19 13-0340 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF	56.87	
02 41 19 13-0341 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF	58.33	
02 41 19 13-0342 Brick Wall Cutouts (02 41 19 13-0323)		
Note: Excludes toothing.		
02 41 19 13-0343 SF 4" Thick Brick Wall Cutouts, <24 SF	14.58	
02 41 19 13-0344 SF 6" Thick Brick Wall Cutouts, <24 SF	24.06	
02 41 19 13-0345 SF 8" Thick Brick Wall Cutouts, <24 SF	33.50	
02 41 19 13-0346 SF 10" Thick Brick Wall Cutouts, <24 SF	40.82	
02 41 19 13-0347 SF 12" Thick Brick Wall Cutouts, <24 SF	48.85	
02 41 19 13-0348 SF 16" Thick Brick Wall Cutouts, <24 SF	57.60	
02 41 19 13-0349 Concrete Block Wall Cutouts (02 41 19 13-0323)		
Note: Excludes toothing.		
02 41 19 13-0350 SF 4" Thick Concrete Block Wall Cutouts, <24 SF	24.12	
02 41 19 13-0351 SF 6" Thick Concrete Block Wall Cutouts, <24 SF	25.54	
02 41 19 13-0352 SF 8" Thick Concrete Block Wall Cutouts, <24 SF	26.97	
02 41 19 13-0353 SF 10" Thick Concrete Block Wall Cutouts, <24 SF	28.44	
02 41 19 13-0354 SF 12" Thick Concrete Block Wall Cutouts, <24 SF	29.16	
02 41 19 13-0355 SF 16" Thick Concrete Block Wall Cutouts, <24 SF	30.62	
02 41 19 13-0356 Limestone Cutouts (02 41 19 13-0323)		
02 41 19 13-0357 SF 2" Thick Limestone Cutouts, <24 SF	40.82	
02 41 19 13-0358 SF 4" Thick Limestone Cutouts, <24 SF	49.58	
02 41 19 13-0359 SF 6" Thick Limestone Cutouts, <24 SF	52.49	
02 41 19 13-0360 SF 8" Thick Limestone Cutouts, <24 SF	55.41	
02 41 19 13-0361 SF 10" Thick Limestone Cutouts, <24 SF	58.33	
02 41 19 13-0362 SF 12" Thick Limestone Cutouts, <24 SF	61.25	
02 41 19 13-0363 Toothing Masonry Cutouts (02 41 19 13-0323)		
Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0364 VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts.....	14.58	
02 41 19 13-0365 VLF Brick, Hard Mortar, Toothing Masonry Cutouts.....	19.69	
02 41 19 13-0366 VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	8.75	
02 41 19 13-0367 VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts	11.67	
02 41 19 13-0368 Minimum Charge For Cutouts (02 41 19 13-0323)		
Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0369 EA Cutouts Minimum Charge	291.63	

02 43 Structure Moving (02 40)

02	Existing Conditions
02 40	Demolition And Structure Moving
02 43	Structure Moving



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 43 13 Structure Relocation (02 43)

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

02 43 13 00-0001	Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete (02 43 13)	
	Note: Includes disconnection of utilities, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.	
02 43 13 00-0002	SF Up To 800 SF, Move Relocatable Metal Frame Building	27.91
02 43 13 00-0003	SF >800 To 920 SF, Move Relocatable Metal Frame Building	26.39
02 43 13 00-0004	SF >920 SF, Move Relocatable Metal Frame Building	24.69
02 43 13 00-0005	SF Up To 800 SF, Move Relocatable Wood Frame Building	22.40
02 43 13 00-0006	SF >800 To 920 SF, Move Relocatable Wood Frame Building	20.93
02 43 13 00-0007	SF >920 SF, Move Relocatable Wood Frame Building	18.52
02 43 13 00-0008	SF Up To 800 SF, Move Relocatable Wood/Metal Frame Building	27.13
02 43 13 00-0009	SF >800 To 920 SF, Move Relocatable Wood/Metal Frame Building	24.69
02 43 13 00-0010	SF >920 SF, Move Relocatable Wood/Metal Frame Building	20.93

02 60 Contaminated Site Material Removal (02)

02 61 Removal And Disposal Of Contaminated Soils (02 60)

02 61 13 Excavation And Handling Of Contaminated Material (02 61)

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

02 61 13 00-0001	Excavation Of Non-Petroleum Contaminated Soil (02 61 13)	
	See CSI section 02 65 00 00-0001 for testing, 02 65 00 00-0006 for testing, 31 23 16 00-0000 for excavation of non-contaminated soil, 31 23 16 33-0019 for loading non-petroleum contaminated material onto trucks for removal.	
02 61 13 00-0002	Excavate Non-Petroleum Contaminated Soil (02 61 13 00-0001)	
02 61 13 00-0003	CY Excavate Non Petroleum Contaminated Soil	6.88
	Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	
02 61 13 00-0004	CY Load Excavated Non-Petroleum Contaminated Soil	5.96
02 61 13 00-0005	CY Disposal Fees Of Non-Petroleum Contaminated Soil	62.57
02 61 13 00-0006	Excavate Petroleum Contaminated Soil (02 61 13)	
02 61 13 00-0007	CY Excavate Petroleum Contaminated Soil	10.32
	Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	
02 61 13 00-0008	CY Load Excavated Petroleum Contaminated Soil	5.96
02 61 13 00-0009	CY Disposal Fees Of Petroleum Contaminated Soil	100.25
02 61 13 00-0010	Accessories For Contaminated Soil Stockpile (02 61 13)	
	See CSI section 31 25 14 23-0001 for sand bags.	
02 61 13 00-0011	SF 30 Mil Liner For Contaminated Soil Storage	1.00
	Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	
02 61 13 00-0012	SF 10 Mil Liner For Contaminated Soil Storage	0.61
	Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	

02 62 Hazardous Waste Recovery Process (02 60)

02 62 16 Soil Vapor Extraction (02 62)

02 62 16 00-0001	Active And Passive Trench System (02 62 16)	
02 62 16 00-0002	Leachate And Gas Transfer Pipe (02 62 16 00-0001)	
02 62 16 00-0003	High Density Polyethylene Pipe, Laterals (02 62 16 00-0002)	
	Note: Heat fusion connections with pipe and fittings.	
02 62 16 00-0004	LF 3" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings	13.08
02 62 16 00-0005	LF 4" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings	14.99
02 62 16 00-0006	LF 6" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings	19.50
02 62 16 00-0007	LF 8" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings	27.29
02 62 16 00-0008	LF 10" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings	35.49
02 62 16 00-0009	LF 12" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings	44.75
02 62 16 00-0010	EA Monitoring And Control Assembly	1,640.31
02 62 16 00-0011	EA 3" Header Valve Assembly	738.34
02 62 16 00-0012	EA 4" Header Valve Assembly	1,133.92
02 62 16 00-0013	EA 6" Header Valve Assembly	1,660.04
02 62 16 00-0014	EA 8" Header Valve Assembly	2,422.64
02 62 16 00-0015	EA Condensate Sump Assembly	16,027.69
02 62 16 00-0016	EA Header Monitoring Port Assembly	921.93
02 62 16 00-0017	Chemical Resistant Sump And Manhole (02 62 16 00-0001)	
02 62 16 00-0018	High Density Polyethylene Manholes (02 62 16 00-0017)	



Existing Conditions		02
Contaminated Site Material Removal		02 60
Hazardous Waste Recovery Process		02 62

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 62 16 00-0019 EA 27" Diameter Concrete Filled Polyethylene Lid Stainless Steel Handle.....	203.23	
02 62 16 00-0020 EA 4" Diameter, 2" High Riser Section With Or Without Steps.....	381.23	
02 62 16 00-0021 EA 3.25" High x 4" Diameter Upper Unit With Or Without Steps.....	685.30	
02 62 16 00-0022 EA 4.25" High x 4" Diameter Upper Unit With Or Without Steps.....	799.58	
02 62 16 00-0023 EA 3" High x 4" Diameter Manhole Base - No Outlets.....	689.62	
02 62 16 00-0024 EA 12" Inlet/Outlet - Factory Attached.....	199.32	
02 62 16 00-0025 EA 15" Inlet/Outlet - Factory Attached.....	307.38	
02 62 16 00-0026 EA 18" Inlet/Outlet - Factory Attached.....	340.31	
02 62 16 00-0027 EA 24" Inlet/Outlet - Factory Attached.....	402.37	
02 62 16 00-0028 EA 30" Inlet/Outlet - Factory Attached.....	459.10	
02 62 16 00-0029 EA 36" Inlet/Outlet - Factory Attached.....	538.82	
02 62 16 00-0030 EA 4" Inlet Gasket - To Attach Leachate Transport Pipe.....	9.44	
02 62 16 00-0031 EA 6" Inlet Gasket - To Attach Leachate Transport Pipe.....	12.60	
02 62 16 00-0032 EA 8" Inlet Gasket - To Attach Leachate Transport Pipe.....	15.74	
02 62 16 00-0033 EA 10" Inlet Gasket - To Attach Leachate Transport Pipe.....	23.60	
02 62 16 00-0034 EA 12" Inlet Gasket - To Attach Leachate Transport Pipe.....	29.89	
02 62 16 00-0035 EA Additional Penetrations Into Manhole.....	188.51	
02 62 16 00-0036 High Density Polyethylene Sumps (02 62 16 00-0017)		
02 62 16 00-0037 EA 42" Diameter Riser Sump With 30" Or 22-1/2" Diameter Neck.....	1,757.77	
02 62 16 00-0038 EA 2" Riser Sump Extension - 22-1/2" Or 30" Diameter.....	701.36	
02 62 16 00-0039 EA 48" Sump Base.....	412.74	
02 62 16 00-0040 EA 30" Sump Cover.....	302.78	
02 62 16 00-0041 EA 22" Sump Cover.....	279.21	
02 62 16 00-0042 EA Riser Sump To Base Seal.....	279.21	
02 62 16 00-0043 EA Riser Sump To Extension Seal.....	222.66	
02 62 16 00-0044 EA 2" Conduit Grommet - Box Of 6.....	476.13	
02 62 16 00-0045 EA 4" Conduit Grommet - Box Of 6.....	589.64	
02 62 16 00-0046 EA 6" Conduit Grommet - Box Of 6.....	701.83	
02 62 16 00-0047 Leachate And Gas Collection Pipe (02 62 16 00-0001)		
02 62 16 00-0048 Slotted Polyvinyl Chloride (PVC) (02 62 16 00-0047)		
Note: Number of rows of slots, slot spacing and slot width can vary to give required outside diameter intake area. Slot width and spacing varies.		
02 62 16 00-0049 LF 2" Diameter, Schedule 40, 2 To 3 Rows Of Slots.....	6.83	
02 62 16 00-0050 LF 4" Diameter, Schedule 40, 2 To 4 Rows Of Slots.....	10.25	
02 62 16 00-0051 LF 6" Diameter, Schedule 40, 2 To 6 Rows Of Slots.....	14.73	
02 62 16 00-0052 LF 8" Diameter, Schedule 40, 2 To 6 Rows Of Slots.....	23.16	
02 62 16 00-0053 LF 10" Diameter, Schedule 40, 2 To 8 Rows Of Slots.....	33.43	
02 62 16 00-0054 LF 12" Diameter, Schedule 40, 2 To 10 Rows Of Slots.....	48.25	
02 62 16 00-0055 Sheet Drainage Systems (02 62 16)		
Note: Made of 2 sets of parallel strands. Intersecting strands form two overlaid sets of continuous deep channels.		
02 62 16 00-0056 Drainage Nets And Composites (02 62 16 00-0055)		
02 62 16 00-0057 Polyethylene Drainage Nets (02 62 16 00-0056)		
02 62 16 00-0058 SF Drainage Net - 1/4" Thick High Density Polyethylene.....	0.51	
02 62 16 00-0059 SF Drainage Net With Geotextile Fabric Heat Bonded To One Side.....	1.70	
02 62 16 00-0060 SF Drainage Net With Geotextile Fabric Heat Bonded To Both Sides.....	2.00	
02 62 16 00-0061 Gas Interception Networks (02 62 16)		
02 62 16 00-0062 Gas Treatment (02 62 16 00-0061)		
02 62 16 00-0063 Flares (02 62 16 00-0062)		
Note: These are basic flare prices and exclude controls and auxiliary equipment. The basic price will be approximately 25% of the total cost of the unit complete with controls, auxiliary equipment, piping, setup, etc.		
02 62 16 00-0064 EA 2.25 Million BTU/Hour Landfill Flare.....	39,554.86	
02 62 16 00-0065 EA 7.5 Million BTU/Hour Landfill Flare.....	50,329.16	
02 62 16 00-0066 EA 10.5 Million BTU/Hour Landfill Flare.....	66,207.07	
02 62 16 00-0067 EA 22.5 Million BTU/Hour Landfill Flare.....	133,283.46	
02 62 16 00-0068 EA 30 Million BTU/Hour Landfill Flare.....	154,575.55	
02 62 16 00-0069 EA 36 Million BTU/Hour Landfill Flare.....	176,762.52	
02 62 16 00-0070 Gas Scrubbers (02 62 16 00-0061)		
02 62 16 00-0071 Single Stage Gas Scrubbers (02 62 16 00-0070)		
Note: Unit is flange to flange, carbon steel construction. Includes ecosphere packing (HDPE), mist eliminator section, internal spray nozzle, access doors and differential pressure gauge.		
02 62 16 00-0072 EA 1,500 CFM Fluidized Bed Gas Scrubber - Single Stage.....	33,035.73	
02 62 16 00-0073 EA 4,400 CFM Fluidized Bed Gas Scrubber - Single Stage.....	45,153.73	
02 62 16 00-0074 EA 5,800 CFM Fluidized Bed Gas Scrubber - Single Stage.....	48,018.09	
02 62 16 00-0075 EA 7,700 CFM Fluidized Bed Gas Scrubber - Single Stage.....	51,869.08	
02 62 16 00-0076 EA 9,600 CFM Fluidized Bed Gas Scrubber - Single Stage.....	56,345.61	
02 62 16 00-0077 EA 12,000 CFM Fluidized Bed Gas Scrubber - Single Stage.....	59,986.66	
02 62 16 00-0078 EA 17,000 CFM Fluidized Bed Gas Scrubber - Single Stage.....	65,000.59	

02 Existing Conditions**02 60 Contaminated Site Material Removal****02 62 Hazardous Waste Recovery Process**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 62 16 00-0079	EA		23,600 CFM Fluidized Bed Gas Scrubber - Single Stage	69,979.97	
02 62 16 00-0080	EA		30,200 CFM Fluidized Bed Gas Scrubber - Single Stage	74,503.49	
02 62 16 00-0081	EA		38,700 CFM Fluidized Bed Gas Scrubber - Single Stage	84,521.38	
02 62 16 00-0082	EA		47,200 CFM Fluidized Bed Gas Scrubber - Single Stage	95,995.98	
02 62 16 00-0083	EA		58,000 CFM Fluidized Bed Gas Scrubber - Single Stage	103,698.87	
02 62 16 00-0084	EA		79,700 CFM Fluidized Bed Gas Scrubber - Single Stage	118,194.16	
02 62 16 00-0085	EA		90,900 CFM Fluidized Bed Gas Scrubber - Single Stage	124,309.46	
02 62 16 00-0086	EA		113,300 CFM Fluidized Bed Gas Scrubber - Single Stage	134,116.45	
02 62 16 00-0087	EA		3,000 CFM Fluidized Bed Gas Scrubber - Single Stage	42,174.02	
02 62 16 00-0088			Gas Collection (02 62 16 00-0061)		
02 62 16 00-0089			Vacuum Blowers (02 62 16 00-0088)		
			Note: Aluminum wheel with clean-out door, drain and plug. 60 Hertz, 230/460V, 3600 rpm, TEFC, 184T. As manufactured by New York Blower Fans.		
02 62 16 00-0090	EA		5 HP New York Blower, Pressure Blower Size 2204, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T	3,538.38	
			For Silencer Option, Add	360.00	
02 62 16 00-0091	EA		5 HP New York Blower, Pressure Blower Size 2206, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T	3,548.65	
			For Silencer Option, Add	386.00	
02 62 16 00-0092	EA		5 HP New York Blower, Pressure Blower Size 2606, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T	3,933.24	
			For Silencer Option, Add	420.00	
02 62 16 00-0093			Vacuum Blowers And Compressors (02 62 16 00-0089)		
			Note: Heavy duty rotary blowers packaged with silencer, filter, drive and motor. Unit is mounted and interconnected all on the same base.		
02 62 16 00-0094	EA		Positive Displacement Blower, 4.9 Max. HP, 48 CFM	5,370.74	
02 62 16 00-0095	EA		Positive Displacement Blower, 5.6 Max. HP, 111 CFM	5,891.62	
02 62 16 00-0096	EA		Positive Displacement Blower, 12.2 Max. HP, 143 CFM	6,741.97	
02 62 16 00-0097	EA		Positive Displacement Blower, 11.8 Max. HP, 271 CFM	7,037.58	
02 62 16 00-0098	EA		Positive Displacement Blower, 15 Max. HP, 134 CFM	6,549.02	
02 62 16 00-0099	EA		Positive Displacement Blower, 19.7 Max. HP, 278 CFM	7,541.84	
02 62 16 00-0100	EA		Positive Displacement Blower, 18.3 Max. HP, 399 CFM	8,173.01	
02 62 16 00-0101	EA		Positive Displacement Blower, 254 Max. HP, 247 CFM	9,198.82	
02 62 16 00-0102	EA		Positive Displacement Blower, 28.3 Max. HP, 427 CFM	11,105.91	
02 62 16 00-0103	EA		Positive Displacement Blower, 29 Max. HP, 665 CFM	11,295.99	
02 62 16 00-0104	EA		Positive Displacement Blower, 38.8 Max. HP, 393 CFM	12,283.85	
02 62 16 00-0105	EA		Positive Displacement Blower, 49.6 Max. HP, 615 CFM	15,931.51	
02 62 16 00-0106	EA		Positive Displacement Blower, 46.5 Max. HP, 1,248 CFM	17,703.40	
02 62 16 00-0107	EA		Positive Displacement Blower, 55 Max. HP, 574 CFM	18,397.75	
02 62 16 00-0108	EA		Positive Displacement Blower, 67.1 Max. HP, 1,071 CFM	21,785.16	
02 62 16 00-0109	EA		Positive Displacement Blower, 65.5 Max. HP, 1,878 CFM	24,689.66	
02 62 16 00-0110			Fugitive Dust, Vapor And Gas Emissions Control (02 62 16)		
02 62 16 00-0111			Sprayed Dust Suppressants (02 62 16 00-0110)		
			Note: Overall dust suppression reflects treatment of unpaved haul roads and parking lots and similar surfaces. Overall erosion control reflects stabilizing road shoulders and slopes. Excludes water costs.		
02 62 16 00-0112	SY		Overall Dust Suppression And Erosion Control, Tree Sap Based Sprayed Dust Suppressant	3.30	
02 62 16 00-0113	SY		Erosion Control For Landfill Cap	3.45	
02 62 16 00-0114	SY		Stockpile Dust Suppression Tree Sap Based Dust Suppressant	3.45	
02 62 16 00-0115	SY		Periodic Maintenance Application Tree Sap Based Sprayed Dust Suppressant	3.14	
02 62 16 00-0116	SY		Overall Dust Suppression And Erosion Control, Chloride Based Sprayed Dust Suppressant	3.34	
02 62 16 00-0117	SY		Erosion Control For Landfill Cap Chloride Based Sprayed Dust Suppressant	3.67	
02 62 16 00-0118	SY		Stockpile Dust Suppression, Chloride Based Sprayed Dust Suppressant	3.50	
02 62 16 00-0119	SY		Periodic Maintenance Application Chloride Based Sprayed Dust Suppressant	3.17	
02 62 16 00-0120	SY		Overall Dust Suppression And Erosion Control, Oil Emulsion Sprayed Dust Suppressant	3.58	
02 62 16 00-0121	SY		Erosion Control For Landfill Cap	4.21	
02 62 16 00-0122	SY		Stockpile Dust Suppression, Oil Emulsion Sprayed Dust Suppressant	3.88	
02 62 16 00-0123	SY		Periodic Maintenance Application Oil Emulsion Sprayed Dust Suppressant	3.26	
02 62 16 00-0124	SY		Overall Dust Suppression And Erosion Control, Asphalt Emulsion Sprayed Dust Suppressant	3.95	
02 62 16 00-0125	SY		Erosion Control For Landfill Cap Asphalt Emulsion Sprayed Dust Suppressant	4.64	
02 62 16 00-0126	SY		Stockpile Dust Suppression, Asphalt Emulsion Sprayed Dust Suppressant	4.28	
02 62 16 00-0127	SY		Periodic Maintenance Application Asphalt Emulsion Sprayed Dust Suppressant	3.62	
02 62 16 00-0128	SY		Overall Dust Suppression And Erosion Control, Lignosulphonate Sprayed Dust Suppressant	3.31	
02 62 16 00-0129	SY		Erosion Control For Landfill Cap Lignosulphonate Sprayed Dust Suppressant	3.64	
02 62 16 00-0130	SY		Stockpile Dust Suppression, Lignosulphonate Sprayed Dust Suppressant	3.47	
02 62 16 00-0131	SY		Periodic Maintenance Application Lignosulphonate Sprayed Dust Suppressant	3.17	
02 62 16 00-0132			Synthetic Covers Over Waste Piles (02 62 16 00-0110)		
02 62 16 00-0133			Plastic Waste Pile Covers (02 62 16 00-0132)		
02 62 16 00-0134	SF		Plastic Laminate Waste Pile Cover, 130 LB Tear Strength, 1 To 1-1/2 Year Outdoor Life Expectancy	0.22	
02 62 16 00-0135	SF		Plastic Laminate Waste Pile Cover, 185 LB Tear Strength, 3 To 4 Year Outdoor Life Expectancy	0.51	
02 62 16 00-0136	SF		Plastic Laminate Waste Pile Cover, 250 LB Tear Strength, 4 To 5 Year Outdoor Life Expectancy	0.67	
02 62 16 00-0137	LF		Add For Cover Drawstring	0.78	
02 62 16 00-0138	EA		Add For Metal Grommets Used With Tie-downs	0.81	



Existing Conditions		02
Contaminated Site Material Removal	02 60	02
Hazardous Waste Recovery Process	02 62	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 62 16 00-0139 SF Plastic Laminate Waste Pile Cover, 135 LB Tear Strength, 2 To 2-1/2 Year Outdoor Life Expectancy.....	0.30	
02 65 Underground Storage Tank Removal (02 60)		
Note: Petroleum gasoline is classified as a hazardous material; fuel oil is considered a non-hazardous material. See CSI section 01 74 19 00-0048 for hauling, 31 20 00 00-0000 for non-contaminated soil excavation, 31 23 16 00-0000 for excavation, 31 41 00 00-0000 for shoring.		
02 65 00 00-0001 Monitoring, Sampling, Testing And Analysis (02 65)		
02 65 00 00-0002 Field Samples For Testing (02 65 00 00-0001)		
02 65 00 00-0003 EA Collection Of Sludge Sample.....	24.71	
02 65 00 00-0004 EA Collection Of Pumpable Liquids Sample.....	24.71	
02 65 00 00-0005 EA Collection Of Contaminated Soil Sample.....	24.71	
02 65 00 00-0006 Lab Tests For Underground Storage Tank Removal (02 65 00 00-0001)		
Note: Includes lab test fees, reports, shipping, handling, chain of custody documents and disposal of sample.		
02 65 00 00-0007 EA Lab Test - Benzene, Toluene, Ethylbenzene, Xylene 8020	111.07	
Note: The cost is for the in-lab test for Benzene, Toluene, Ethylbenzene, And Xylene using procedure 8020 as detailed in EPA SW-846.		
02 65 00 00-0008 EA Lab Test - Flashpoint.....	43.19	
Note: The cost is for the in-lab test for the flashpoint using procedure 40CFR 261.21 as detailed in EPA SW-846.		
02 65 00 00-0009 EA Lab Test - TOX 9020	103.90	
Note: The cost is for the in-lab test for total organic halides using procedure 9020 as detailed in EPA SW-846.		
02 65 00 00-0010 EA Lab Test - TPH 8015 Modified.....	111.07	
Note: The cost is for the in-lab test for total petroleum hydrocarbons by gas chromatography using procedure 8015 Mod. as detailed in EPA SW-846.		
02 65 00 00-0011 EA Lab Test - TRPH 418.1.....	86.39	
Note: The cost is for the in-lab test for total recoverable petroleum hydrocarbons using procedure 418.1 as detailed in EPA SW-846.		
02 65 00 00-0012 EA Lab Test - VOC.....	234.48	
Note: The cost is for the in-lab test for volatile organics using procedure 8240 as detailed in EPA SW-846.		
02 65 00 00-0013 EA Lab Test - Semi-Volatile Organic.....	431.94	
Note: The cost is for the in-lab test for semi-volatile organics using procedure 8270 as detailed in EPA SW-846.		
02 65 00 00-0014 EA Lab Test - Oil And Grease 413.1	51.95	
Note: The cost is for the in-lab test for oil and grease using procedure 413.1 as detailed in EPA SW-846.		
02 65 00 00-0015 EA Lab Test - TCLP (Extraction) - Metals	92.56	
Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.		
02 65 00 00-0016 EA Lab Test - TCLP (Extraction) - Semi-Volatile Organic	123.41	
Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.		
02 65 00 00-0017 EA Lab Test - Metals 6010 RCRA.....	138.22	
Note: The cost is for the in-lab test for metals using procedure 6010 RCRA as detailed in EPA SW-846.		
02 65 00 00-0018 EA Lab Test - Metals (Arsenic) 7060.....	18.51	
Note: The cost is for the in-lab test for the metal arsenic using procedure 7060 as detailed in EPA SW-846.		
02 65 00 00-0019 EA Lab Test - Metals (Selenium) 7740.....	18.51	
Note: The cost is for the in-lab test for the metal selenium (SE) using procedure 7740 as detailed in EPA SW-846.		
02 65 00 00-0020 EA Lab Test - Metals (Lead) 7421.....	18.51	
Note: The cost is for the in-lab test for the metal lead using procedure 7421 as detailed in EPA SW-846.		
02 65 00 00-0021 EA Lab Test - Metals (Mercury) 7470.....	34.55	
Note: The cost is for the in-lab test for the metal mercury using procedure 7470 as detailed in EPA SW-846.		
02 65 00 00-0022 EA Lab Test - PNA/PAH 8100	197.46	
Note: The cost is for the in-lab test for polynuclear aromatic hydrocarbons using procedure 8100 as detailed in EPA SW-846.		
02 65 00 00-0023 EA Lab Test - Fuel Id ASTM D3328-78.....	71.43	
Note: The cost is for the in-lab test to determine the constituents of fuel using the procedure as detailed in ASTM D3328-78.		
02 65 00 00-0024 EA Lab Test - pH.....	14.81	
02 65 00 00-0025 EA Lab Test - PCBs In Wastewater.....	185.12	
02 65 00 00-0026 EA Lab Test - Methyl Tertiary Butyl Ether (MTBE)	111.07	
02 65 00 00-0027 Tests, Surveys And Maintenance (02 65 00 00-0001)		
02 65 00 00-0028 EA Site Survey For AST/UST Location By Certified Tank Installer.....	1,024.16	
Note: Includes testing Pump output both tank and dispenser, Calibrate pump dispenser if needed, Check all sumps both tank and dispenser, check all fitting connections for leaks and check wiring connection for possible malfunction or safety hazard, check seals on caps for fill tube, check overflow performance for safety shutdown, check all hoses and pump handle, check break-away couplings, complete written report on all data found.		
02 65 00 00-0029 EA Check Cathodic Protection - Impressed Current Systems And Sacrificial Anode Systems	157.93	
Note: By Certified Technician. Write report of findings for action if needed		
02 65 00 00-0030 EA Check And Report On Monitor Probes	37.49	
Note: By Certified Technician		
02 65 00 00-0031 EA Tank Monitoring System: Check System Per Manufacturer's Specification By Certified Technician With Written Report.....	275.89	
Note: Including pass / fail; paper feed operational paper installed etc.; and status of inspection repairs needed etc.		
02 65 00 00-0032 EA Replace Anode On Impressed System.....	112.77	
02 65 00 00-0033 EA Replace Power Converter On Impressed System	163.78	
02 65 00 00-0034 EA Replace Monitor Probes	244.30	
02 65 00 00-0035 EA Ultrasonic Test.....	73.85	

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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0036	Tests And Sampling Labor Hours (02 65 00 00-0001)			
02 65 00 00-0037	HR	Certified Tank Installer	118.00	
02 65 00 00-0038	HR	Certified Geologist/Environmentalist	118.00	
02 65 00 00-0039	HR	Hourly Office Work For Reports Required For EPA	103.62	
		Note: Includes title searches, well survey data, site drawings, submitting preliminary work, etc. Hours not to be used in association with other tasks performed.		
02 65 00 00-0040	Remove Tank Contents (02 65)			
02 65 00 00-0041	Transfer Liquid (02 65 00 00-0040)			
		Note: For use to transfer liquids from one tank to another.		
02 65 00 00-0042	GAL	Transfer Reusable Liquid To Different Tank	0.58	
		Note: Per gallon of material transferred.		
02 65 00 00-0043	Pump Contaminated Liquids And Rinse Material (02 65 00 00-0040)			
02 65 00 00-0044	GAL	Removal and Disposal Of Hazardous Liquids From Tank	1.76	
02 65 00 00-0045	GAL	Removal and Disposal Of Non Hazardous Liquid From Tank	1.14	
02 65 00 00-0046	Sludge (02 65 00 00-0040)			
		Note: Includes scraping and solidifying agent.		
02 65 00 00-0047	GAL	Removal and Disposal Of Hazardous Solids Or Sludge From Tank	5.53	
02 65 00 00-0048	GAL	Removal and Disposal Of Non Hazardous Solids Or Sludge From Tank	1.40	
02 65 00 00-0049	Purge Vapors, Open And Clean Tank (02 65)			
02 65 00 00-0050	Purge Vapors (02 65 00 00-0049)			
02 65 00 00-0051	LB	Purge Tank Using Dry Ice	3.02	
		Note: Approximately 1.5 To 3.0 LBS of dry ice per 100 Gals of tank volume.		
02 65 00 00-0052	High Pressure Water Wash And Rinse Of Tank Interior (02 65 00 00-0049)			
02 65 00 00-0053	EA	Up To 275 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	240.43	
02 65 00 00-0054	EA	>275 To 550 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	309.13	
02 65 00 00-0055	EA	>550 To 1,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	391.56	
02 65 00 00-0056	EA	>1,000 To 2,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	508.35	
02 65 00 00-0057	EA	>2,000 To 5,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	948.00	
02 65 00 00-0058	EA	>5,000 To 6,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	1,140.35	
02 65 00 00-0059	EA	>6,000 To 8,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	1,270.87	
02 65 00 00-0060	EA	>8,000 To 10,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	1,525.04	
02 65 00 00-0061	EA	>10,000 To 15,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	1,895.99	
02 65 00 00-0062	EA	>15,000 To 20,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	2,280.69	
02 65 00 00-0063	EA	>20,000 To 30,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	2,850.86	
02 65 00 00-0064	EA	>30,000 To 40,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	3,563.92	
02 65 00 00-0065	EA	>40,000 To 50,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior	4,454.20	
02 65 00 00-0066	Scrape Clean Tank Exterior (02 65 00 00-0049)			
02 65 00 00-0067	EA	Up To 275 Gallon Tank, Scrape Clean Tank Exterior	186.96	
02 65 00 00-0068	EA	>275 To 550 Gallon Tank, Scrape Clean Tank Exterior	248.97	
02 65 00 00-0069	EA	>550 To 1,000 Gallon Tank, Scrape Clean Tank Exterior	326.24	
02 65 00 00-0070	EA	>1,000 To 2,000 Gallon Tank, Scrape Clean Tank Exterior	451.77	
02 65 00 00-0071	EA	>2,000 To 5,000 Gallon Tank, Scrape Clean Tank Exterior	1,000.46	
02 65 00 00-0072	EA	>5,000 To 6,000 Gallon Tank, Scrape Clean Tank Exterior	1,266.79	
02 65 00 00-0073	EA	>6,000 To 8,000 Gallon Tank, Scrape Clean Tank Exterior	1,482.37	
02 65 00 00-0074	EA	>8,000 To 10,000 Gallon Tank, Scrape Clean Tank Exterior	1,863.56	
02 65 00 00-0075	EA	>10,000 To 15,000 Gallon Tank, Scrape Clean Tank Exterior	2,422.16	
02 65 00 00-0076	EA	>15,000 To 20,000 Gallon Tank, Scrape Clean Tank Exterior	3,040.30	
02 65 00 00-0077	EA	>20,000 To 30,000 Gallon Tank, Scrape Clean Tank Exterior	3,958.72	
02 65 00 00-0078	EA	>30,000 To 40,000 Gallon Tank, Scrape Clean Tank Exterior	4,750.46	
02 65 00 00-0079	EA	>40,000 To 50,000 Gallon Tank, Scrape Clean Tank Exterior	5,938.08	
02 65 00 00-0080	Tank And Piping Removal (02 65)			
		Note: Excludes excavation. See CSI section 02 61 13 00-0001 for excavation.		
02 65 00 00-0081	Removal And Disposal Of Piping (02 65 00 00-0080)			
		Note: Includes removal, inspection, loading, transporting pipe to disposal facility or transfer station within 15 miles and disposal fees.		
02 65 00 00-0082	LF	Up To 4", Removal And Disposal Of Piping	14.89	
02 65 00 00-0083	LF	>4" To 8", Removal And Disposal Of Piping	19.85	
02 65 00 00-0084	Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement (02 65 00 00-0080)			
		Note: Excludes excavation or backfill.		



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0085	EA		Up To 275 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	517.13	
02 65 00 00-0086	EA		>275 To 550 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	627.95	
02 65 00 00-0087	EA		>550 To 1,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	738.76	
02 65 00 00-0088	EA		>1,000 To 2,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	923.45	
02 65 00 00-0089	EA		>2,000 To 5,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,292.83	
02 65 00 00-0090	EA		>5,000 To 6,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,625.27	
02 65 00 00-0091	EA		>6,000 To 8,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,846.90	
02 65 00 00-0092	EA		>8,000 To 10,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,216.27	
02 65 00 00-0093	EA		>10,000 To 15,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,955.03	
02 65 00 00-0094	EA		>15,000 To 20,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	3,542.43	
02 65 00 00-0095	EA		>20,000 To 30,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	4,151.00	
02 65 00 00-0096	EA		>30,000 To 40,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	4,856.31	
02 65 00 00-0097	EA		>40,000 To 50,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	6,070.38	
02 65 00 00-0098			Cut Tank Into Sections That Can Easily Be Transported And Disposed Of When Necessary (02 65 00 00-0080) Note: Includes 1 lengthwise at every 4' O.C. height wise.		
02 65 00 00-0099	EA		>1,000 To 2,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	630.44	
02 65 00 00-0100	EA		>2,000 To 5,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,175.69	
02 65 00 00-0101	EA		>5,000 To 6,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,414.23	
02 65 00 00-0102	EA		>6,000 To 8,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,576.11	
02 65 00 00-0103	EA		>8,000 To 10,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,891.32	
02 65 00 00-0104	EA		>10,000 To 15,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,351.37	
02 65 00 00-0105	EA		>15,000 To 20,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,828.46	
02 65 00 00-0106	EA		>20,000 To 30,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	3,535.58	
02 65 00 00-0107	EA		>30,000 To 40,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	4,419.48	
02 65 00 00-0108	EA		>40,000 To 50,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	5,524.34	
02 65 00 00-0109			Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station (02 65 00 00-0080) Note: Includes disposal fee.		
02 65 00 00-0110	EA		Up To 275 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	301.85	
			For Each Additional Mile >15 Miles, Add	3.51	
02 65 00 00-0111	EA		>275 To 550 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	419.52	
			For Each Additional Mile >15 Miles, Add	4.43	
02 65 00 00-0112	EA		>550 To 1,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	669.64	
			For Each Additional Mile >15 Miles, Add	6.65	
02 65 00 00-0113	EA		>1,000 To 2,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,117.66	
			For Each Additional Mile >15 Miles, Add	7.76	
02 65 00 00-0114	EA		>2,000 To 5,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,973.05	
			For Each Additional Mile >15 Miles, Add	13.67	
02 65 00 00-0115	EA		>5,000 To 6,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	2,017.38	
			For Each Additional Mile >15 Miles, Add	14.78	
02 65 00 00-0116	EA		>6,000 To 8,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	2,091.26	
			For Each Additional Mile >15 Miles, Add	16.62	
02 65 00 00-0117	EA		>8,000 To 10,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	3,093.34	
			For Each Additional Mile >15 Miles, Add	22.16	
02 65 00 00-0118	EA		>10,000 To 15,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	4,155.60	
			For Each Additional Mile >15 Miles, Add	33.25	
02 65 00 00-0119	EA		>15,000 To 20,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	4,922.34	
			For Each Additional Mile >15 Miles, Add	36.94	
02 65 00 00-0120	EA		>20,000 To 30,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	6,132.86	
			For Each Additional Mile >15 Miles, Add	44.33	
02 65 00 00-0121	EA		>30,000 To 40,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	8,855.75	
			For Each Additional Mile >15 Miles, Add	53.19	
02 65 00 00-0122	EA		>40,000 To 50,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	10,789.63	
			For Each Additional Mile >15 Miles, Add	61.17	
02 65 00 00-0123			Other Storage Tank Removals (02 65 00 00-0080)		
02 65 00 00-0124	GAL		Removal Of Cement Lining	0.45	
02 65 00 00-0125	GAL		Sandblast Tank In Prep For Lining Or Welding; Remove Sand, Vacuum Walls And Seams	0.16	
02 65 00 00-0126	GAL		Install Epoxy For Interior Corrosion Protection	0.87	
02 65 00 00-0127			Tank Closure Report (02 65 00 00-0080) Note: Excludes soils tests. See CSI section 02 65 00 00-0006 for soil tests.		
02 65 00 00-0128	EA		Prepare Tank Closure Report	2,560.39	
02 65 00 00-0129			Temporary Tanks (02 65)		
02 65 00 00-0130			Temporary Holding Tanks (02 65 00 00-0129)		
02 65 00 00-0131			Above Ground Temporary Holding Tanks, Monthly Rental (02 65 00 00-0130)		
02 65 00 00-0132	MO		550 Gallon, Stainless Steel, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	513.53	
02 65 00 00-0133	MO		630 Gallon, Polyethylene, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	513.53	
02 65 00 00-0134	MO		630 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,027.06	
02 65 00 00-0135	MO		4,000 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	770.29	
02 65 00 00-0136	MO		4,000 Gallon, Polyethylene, Trailer Mounted, Above Ground Temporary Holding Tanks, Monthly Rental	1,797.35	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0137 MO 6,000 Gallon, Polyethylene, Total Drain, Above Ground Temporary Holding Tanks, Monthly Rental.....	1,283.82	
02 65 00 00-0138 MO 21,000 Gallon (500 BBL), Steel, Open, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental.....	2,812.99	
02 65 00 00-0139 MO 21,000 Gallon (500 BBL), Steel, Closed, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	3,371.12	
02 65 00 00-0140 MO 21,000 Gallon (500 BBL), Steel, Vapor Proof, Above Ground Temporary Holding Tanks, Monthly Rental	5,692.95	
02 65 00 00-0141 Secondary Containment Berm (02 65 00 00-0129)		
02 65 00 00-0142 MO Secondary Containment Berm Monthly Rental	1,112.65	

02 80 Facility Remediation (02)**02 81 Transportation And Disposal Of Hazardous Materials** (02 80)**02 81 00 00-0001 Hazardous Material Disposal** (02 81)

02 81 00 00-0002 EA RCRA (Direct Landfill) Drums	272.27
Note: Excludes stabilization. See CSI section 02 81 00 00-0003 for Stabilization (>5 ppm).	
02 81 00 00-0003 EA Stabilization (>5 ppm)	362.80
02 81 00 00-0004 TON Bulk Hazardous Material Landfill Cost	229.68

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

02 81 00 00-0006 TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site	350.00
Note: Excludes Disposal Cost.	
02 81 00 00-0007 DRM Disposal Of Non-PCB Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum	55.00
Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0008 DRM Disposal Of Non-Toxic PCB Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum	250.00
Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0009 DRM Disposal Of Toxic PCB Oil By Incineration, Per Partial Or Full 55-Gallon Drum	450.00
Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0010 CF Hazardous (PCB) Oil Filled Equipment Disposal At Approved Site	61.84
Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.	

02 82 Asbestos Remediation (02 80)

Note: Tasks include materials, equipment (e.g. ladders, high volume vacuum with sound suppression system where required, etc.), mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, HEPA vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, fees, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there are tasks with a unit of measure of EA for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. This does not apply to glove bag projects. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0048 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0007 for plastic sheeting for containment construction, 02 89 00 00-0014 for decontamination chambers.

02 82 13 Asbestos Abatement (02 82)**02 82 13 00-0001 Minimum Charge For Asbestos Remediation** (02 82 13)

02 82 13 00-0002 EA Asbestos Remediation Minimum Show Up Charge	778.90
Note: For projects where the total asbestos remediation charge is less than the minimum charge, use task "Minimum Charge For Asbestos Remediation" exclusively. Task "Minimum Charge For Asbestos Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.	

02 82 13 00-0003 Air Monitoring And Bulk Sampling, Asbestos Testing (02 82 13)

Note: Testing tasks include packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.

02 82 13 00-0004 HR Bulk Sampling Or Air Monitoring, Asbestos Testing.....	62.64
02 82 13 00-0005 EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	33.55
02 82 13 00-0006 EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	39.33
02 82 13 00-0007 EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	62.47
02 82 13 00-0008 EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing.....	107.58
02 82 13 00-0009 EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	130.72
02 82 13 00-0010 EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	26.61
02 82 13 00-0011 EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing.....	32.39
02 82 13 00-0012 EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing.....	43.96
02 82 13 00-0013 EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	33.55
02 82 13 00-0014 EA Next Day Turnaround, (Air Point Counting) PLM Test	39.33
02 82 13 00-0015 EA Same Day Turnaround, (Air Point Counting) PLM Test	62.47
02 82 13 00-0016 EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	107.58
02 82 13 00-0017 EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing	123.78
02 82 13 00-0018 EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing	172.36

02 82 16 Engineering Control of Asbestos Containing Materials (02 82)**02 82 16 00-0001 Asbestos Encapsulation (Lock-Down)** (02 82 16)



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 16 00-0002 SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.16	
02 82 16 00-0003 SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	1.54	
02 82 16 00-0004 SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	1.61	
02 82 16 00-0005 SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®)	1.81	
02 82 16 00-0006 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	5.15	
02 82 16 00-0007 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	5.76	
02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)		
02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001) Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.		
02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0017 for projects with less than 10 LF.		
02 82 33 00-0004 EA Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	518.94	
For Work In Restricted Working Space, Add	155.68	
02 82 33 00-0005 LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	26.54	
For Work In Restricted Working Space, Add	7.96	
02 82 33 00-0006 LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	19.90	
For Work In Restricted Working Space, Add	5.97	
02 82 33 00-0007 LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	14.93	
For Work In Restricted Working Space, Add	4.48	
02 82 33 00-0008 LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	11.19	
For Work In Restricted Working Space, Add	3.36	
02 82 33 00-0009 LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	9.74	
For Work In Restricted Working Space, Add	2.92	
02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0017 for projects with less than 10 LF.		
02 82 33 00-0011 EA Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	518.94	
For Work In Restricted Working Space, Add	155.68	
02 82 33 00-0012 LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	30.52	
For Work In Restricted Working Space, Add	9.16	
02 82 33 00-0013 LF >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	22.88	
For Work In Restricted Working Space, Add	6.86	
02 82 33 00-0014 LF >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	17.17	
For Work In Restricted Working Space, Add	5.15	
02 82 33 00-0015 LF >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	12.87	
For Work In Restricted Working Space, Add	3.86	
02 82 33 00-0016 LF >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	11.19	
For Work In Restricted Working Space, Add	3.36	
02 82 33 00-0017 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0018 EA Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal	563.68	
For Work In Restricted Working Space, Add	169.10	
02 82 33 00-0019 LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation	83.50	
For Work In Restricted Working Space, Add	25.05	
02 82 33 00-0020 LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation	32.41	
For Work In Restricted Working Space, Add	9.72	
02 82 33 00-0021 LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation	24.30	
For Work In Restricted Working Space, Add	7.29	
02 82 33 00-0022 LF >500 LF Additional Glove Bag Work for Pipe Insulation	18.23	
For Work In Restricted Working Space, Add	5.47	
02 82 33 00-0023 Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0024 Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0025 EA Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	518.94	
02 82 33 00-0026 SF >10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	31.72	
02 82 33 00-0027 SF >500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	26.08	
02 82 33 00-0028 SF >2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	20.85	
02 82 33 00-0029 SF >10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	16.93	
02 82 33 00-0030 Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0031 EA Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	518.94	
02 82 33 00-0032 SF >10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	28.09	
02 82 33 00-0033 SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	22.45	
02 82 33 00-0034 SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	17.22	
02 82 33 00-0035 SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	13.31	

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

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0036	Fibrous Glass Board Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0023)		
02 82 33 00-0037	EA Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	518.94	
02 82 33 00-0038	SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	24.98	
02 82 33 00-0039	SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	19.34	
02 82 33 00-0040	SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	14.11	
02 82 33 00-0041	SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	10.19	
02 82 33 00-0042	Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal ^(02 82 33 00-0023)		
	Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0043	EA Up To 10 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	518.94	
02 82 33 00-0044	SF >10 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	26.54	
02 82 33 00-0045	SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	20.90	
02 82 33 00-0046	SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	15.68	
02 82 33 00-0047	SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	11.75	
02 82 33 00-0048	Surfacing Material, Asbestos Abatement And Disposal ^(02 82 33)		
02 82 33 00-0049	Fireproofing For Small Areas, Asbestos Abatement And Disposal ^(02 82 33 00-0048)		
	Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0051 for areas > 1 SF see CSI section.		
02 82 33 00-0050	EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal.....	129.74	
	Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
02 82 33 00-0051	Fireproofing, Asbestos Abatement And Disposal ^(02 82 33 00-0048)		
	Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0052	EA Up To 10 SF, Fireproofing, Asbestos Abatement And Disposal	518.94	
02 82 33 00-0053	SF >10 To 500 SF, Fireproofing, Asbestos Abatement And Disposal	31.84	
02 82 33 00-0054	SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal	23.87	
02 82 33 00-0055	SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal	17.91	
02 82 33 00-0056	SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal	13.43	
02 82 33 00-0057	Acoustical Plaster, Asbestos Abatement And Disposal ^(02 82 33 00-0048)		
	Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0058	EA Up To 10 SF, Acoustical Plaster, Asbestos Abatement And Disposal	518.94	
02 82 33 00-0059	SF >10 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	13.30	
02 82 33 00-0060	SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	10.06	
02 82 33 00-0061	SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	7.46	
02 82 33 00-0062	SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	5.51	
02 82 33 00-0063	Plywood, Asbestos Abatement And Disposal ^(02 82 33 00-0048)		
02 82 33 00-0064	EA Up To 10 SF, Plywood, Asbestos Abatement And Disposal	518.94	
02 82 33 00-0065	SF >10 To 500 SF, Plywood, Asbestos Abatement And Disposal.....	11.02	
02 82 33 00-0066	SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal.....	5.31	
02 82 33 00-0067	SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal.....	3.58	
02 82 33 00-0068	SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....	3.05	
02 82 33 00-0069	Asbestos-Cement Products, Asbestos Abatement And Disposal ^(02 82 33)		
02 82 33 00-0070	Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal ^(02 82 33 00-0069)		
02 82 33 00-0071	EA Up To 10 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	518.94	
02 82 33 00-0072	SF >10 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	4.61	
02 82 33 00-0073	SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.36	
02 82 33 00-0074	SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	1.89	
02 82 33 00-0075	SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	1.64	
02 82 33 00-0076	Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal ^(02 82 33 00-0069)		
02 82 33 00-0077	EA Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	518.94	
02 82 33 00-0078	LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	26.54	
02 82 33 00-0079	LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	19.90	
02 82 33 00-0080	LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	14.93	
02 82 33 00-0081	LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	11.19	
02 82 33 00-0082	LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	8.40	
02 82 33 00-0083	LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	8.20	
02 82 33 00-0084	Exterior Transite Siding, Asbestos Abatement And Disposal ^(02 82 33 00-0069)		
02 82 33 00-0085	EA Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	518.94	
	Note: Single or first of multiple layers.		
02 82 33 00-0086	SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	4.15	
	Note: Single or first of multiple layers.		



Existing Conditions			02
Facility Remediation			02 80
Asbestos Remediation			02 82

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0087 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	3.31	
Note: Single or first of multiple layers.		
02 82 33 00-0088 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	2.65	
Note: Single or first of multiple layers.		
02 82 33 00-0089 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	1.99	
Note: Single or first of multiple layers.		
02 82 33 00-0090 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	1.49	
Note: Single or first of multiple layers.		
02 82 33 00-0091 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0092 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0091)		
02 82 33 00-0093 EA Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	518.94	
For Work In Restricted Working Space, Add	155.68	
02 82 33 00-0094 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	51.60	
For Work In Restricted Working Space, Add	15.48	
02 82 33 00-0095 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	34.40	
For Work In Restricted Working Space, Add	10.32	
02 82 33 00-0096 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	25.84	
For Work In Restricted Working Space, Add	7.75	
02 82 33 00-0097 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	20.64	
For Work In Restricted Working Space, Add	6.19	
02 82 33 00-0098 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	17.54	
For Work In Restricted Working Space, Add	5.26	
02 82 33 00-0099 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	15.78	
For Work In Restricted Working Space, Add	4.73	
02 82 33 00-0100 Asbestos Contaminated Soil, Asbestos Abatement And Disposal (02 82 33 00-0091)		
02 82 33 00-0101 EA Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	778.41	
For Work In Restricted Working Space, Add	233.52	
02 82 33 00-0102 CF >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	51.60	
For Work In Restricted Working Space, Add	15.48	
02 82 33 00-0103 CF >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	34.40	
For Work In Restricted Working Space, Add	10.32	
02 82 33 00-0104 CF >250 To 500 CF, Asbestos Contaminated Asbestos Abatement And Disposal.....	25.84	
02 82 33 00-0105 CF >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	20.64	
For Work In Restricted Working Space, Add	6.19	
02 82 33 00-0106 CF >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	17.54	
For Work In Restricted Working Space, Add	5.26	
02 82 33 00-0107 CF >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	15.78	
For Work In Restricted Working Space, Add	4.73	
02 82 33 00-0108 Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0091)		
02 82 33 00-0109 EA Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	518.94	
02 82 33 00-0110 EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	46.44	
02 82 33 00-0111 EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	30.96	
02 82 33 00-0112 EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	23.26	
02 82 33 00-0113 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	18.58	
02 82 33 00-0114 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	15.78	
02 82 33 00-0115 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	14.21	
02 82 33 00-0116 Other Asbestos Containing Materials, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0117 30" To 36" Fire Door, Asbestos Abatement And Disposal (02 82 33 00-0116)		
02 82 33 00-0118 EA Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	518.94	
02 82 33 00-0119 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	93.41	
02 82 33 00-0120 EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	84.07	
02 82 33 00-0121 Grout, Asbestos Abatement And Disposal (02 82 33 00-0116)		
Note: e.g. flue grout.		
02 82 33 00-0122 EA Up To 10 LF, Grout, Asbestos Abatement And Disposal.....	194.60	
02 82 33 00-0123 LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal.....	10.22	
02 82 33 00-0124 LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal.....	7.03	
02 82 33 00-0125 LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal.....	6.03	
02 82 33 00-0126 LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal.....	5.18	
02 82 33 00-0127 LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal.....	4.46	
02 82 33 00-0128 LF >2,500 LF, Grout, Asbestos Abatement And Disposal.....	3.82	
02 82 33 00-0129 Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0116)		
Note: e.g. rope, web cloth, flat.		
02 82 33 00-0130 EA Up To 10 LF, Gaskets, Asbestos Abatement And Disposal.....	194.60	
02 82 33 00-0131 LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal.....	13.76	
02 82 33 00-0132 LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal.....	10.32	
02 82 33 00-0133 LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal.....	8.79	
02 82 33 00-0134 LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal.....	7.91	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0135 LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	7.11	
02 82 33 00-0136 LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	6.77	
02 82 33 00-0137 Caulking, Asbestos Abatement And Disposal (02 82 33 00-0116)		
02 82 33 00-0138 Non Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0137)		
02 82 33 00-0139 EA Up To 10 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal	194.60	
02 82 33 00-0140 LF >10 To 50 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	7.66	
02 82 33 00-0141 LF >50 To 100 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	5.39	
02 82 33 00-0142 LF >100 To 250 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	4.01	
02 82 33 00-0143 LF >250 To 1,000 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	3.01	
02 82 33 00-0144 LF >1,000 To 2,500 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	2.39	
02 82 33 00-0145 LF >2,500 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	2.07	
02 83 Lead Remediation (02 80)		
Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 74 19 00-0048 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0007 for plastic sheeting for containment construction, 02 89 00 00-0014 for decontamination chambers.		
02 83 19 Lead-Based Paint Remediation (02 83)		
02 83 19 13 Lead-Based Paint Abatement (02 83 19)		
02 83 19 13-0001 Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)		
02 83 19 13-0002 EA Lead-Based Paint Remediation Minimum Show Up Charge.....	838.33	
Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.		
02 83 19 13-0003 Testing Material Of Lead Contamination (02 83 19 13)		
Note: Includes report from certified/qualified personnel.		
02 83 19 13-0004 EA Test Existing Material For Lead, Up To 10 Tests.....	25.69	
02 83 19 13-0005 EA Test Existing Material For Lead, >10 To 25 Tests.....	22.75	
02 83 19 13-0006 EA Test Existing Material For Lead, 26 To 50 Tests.....	21.28	
02 83 19 13-0007 EA Test Existing Material For Lead, 51 To 100 Tests.....	19.82	
02 83 19 13-0008 EA Test Existing Material For Lead, 101 To 150 Tests.....	17.61	
02 83 19 13-0009 EA Test Existing Material For Lead, 151 To 250 Tests.....	16.15	
02 83 19 13-0010 EA Test Existing Material For Lead, >250 Tests.....	14.68	
02 83 19 13-0011 EA Lead Inspections Of Units.....	220.18	
02 83 19 13-0012 HR Lead-Based Paint Inspector.....	65.00	
02 83 19 13-0013 EA Lead Danger Sign.....	14.46	
02 83 19 13-0014 Sampling And Testing (02 83 19 13)		
Note: Includes taking sample, delivery to lab and lab fee.		
02 83 19 13-0015 EA X-Ray Fluorescence (XRF) Lead Testing Including Technician, 3 Readings Per Surface And Lab Fee.....	39.88	
02 83 19 13-0016 EA Toxicity Characteristic Leaching Procedure (TCLP) Lead Test (5 Day Turnaround) And Lab Fee.....	38.17	
02 83 19 13-0017 EA Toxicity Characteristic Leaching Procedure (TCLP) Lead Test (48 Hour Turnaround) And Lab Fee.....	57.84	
02 83 19 13-0018 EA Toxicity Characteristic Leaching Procedure (TCLP) Lead Test (24 Hour Turnaround) And Lab Fee.....	80.98	
02 83 19 13-0019 EA Total Threshold Leaching Concentration (TTLC) Lead Test (5 Day Turnaround) And Lab Fee.....	15.04	
02 83 19 13-0020 EA Total Threshold Leaching Concentration (TTLC) Lead Test (24 Hour Turnaround) And Lab Fee.....	23.14	
02 83 19 13-0021 EA Total Threshold Leaching Concentration (TTLC) Lead Test (8 Hour Turnaround) And Lab Fee.....	28.92	
02 83 19 13-0022 EA Soluble Threshold Limit Concentration (STLC) Lead Test (5 Day Turnaround) And Lab Fee.....	38.17	
02 83 19 13-0023 EA Soluble Threshold Limit Concentration (STLC) Lead Test (3 Day Turnaround) And Lab Fee.....	57.84	
02 83 19 13-0024 EA Lead Wipe Samples (5 Day Turnaround) And Lab Fee.....	6.36	
02 83 19 13-0025 EA Lead Wipe Samples (24 Hour Turnaround) And Lab Fee.....	8.68	
02 83 19 13-0026 EA Lead Wipe Samples (8 Hour Turnaround) And Lab Fee.....	12.72	
02 83 19 13-0027 EA Lead Air Samples (5 Day Turn -Around) And Lab Fee.....	6.36	
02 83 19 13-0028 EA Lead Air Samples (24 Hour Turnaround) And Lab Fee.....	8.68	
02 83 19 13-0029 EA Lead Air Samples (8 Hour Turnaround) And Lab Fee.....	12.72	
02 83 19 13-0030 EA Lead Water Test (5 Day Turnaround) and Lab Fee.....	23.14	
02 83 19 13-0031 EA Lead Water Test (24 Hour Turnaround) and Lab Fee.....	34.70	
02 83 19 13-0032 EA Lead Water Test (8 Hour Turnaround) and Lab Fee.....	46.27	
02 83 19 13-0033 EA Lead Paint Chip Test (5 Day Turnaround) and Lab Fee.....	23.93	
02 83 19 13-0034 EA Lead Soil Test (5 Day Turnaround) and Lab Fee.....	47.85	
02 83 19 13-0035 Chemical Stripping Of Lead Contaminated Material (02 83 19 13)		
Note: Per 0.02" (20 mills) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0036 SF Balustrades, Chemical Stripping Of Lead Contaminated Material	26.85	
02 83 19 13-0037 SF Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	39.83	
02 83 19 13-0038 SF Wood Floors, Chemical Stripping Of Lead Contaminated Material.....	6.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0039 SF HVAC Grilles, Chemical Stripping Of Lead Contaminated Material	23.99	
02 83 19 13-0040 SF HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material	28.60	
02 83 19 13-0041 EA Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material	18.50	
02 83 19 13-0042 LF >2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	8.30	
02 83 19 13-0043 LF >4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	14.84	
02 83 19 13-0044 LF >8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	20.33	
02 83 19 13-0045 LF >12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	36.46	
02 83 19 13-0046 SF >16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area	10.89	
02 83 19 13-0047 EA Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material	216.70	
02 83 19 13-0048 SF Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material	8.35	
02 83 19 13-0049 SF Corrugated Steel, Chemical Stripping Of Lead Contaminated Material	9.48	
02 83 19 13-0050 SF Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material.....	9.45	
02 83 19 13-0051 SF Metal Stairs, Chemical Stripping Of Lead Contaminated Material	43.47	
02 83 19 13-0052 LF Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material.....	7.54	
02 83 19 13-0053 SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material	22.10	
Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
02 83 19 13-0054 SF Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material.....	24.17	
02 83 19 13-0055 Demolish Lead Contaminated Material (02 83 19 13)		
Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0056 SF Demolish Brick, Lead Contaminated Material	3.33	
02 83 19 13-0057 SF Demolish Concrete Block, Lead Contaminated Material.....	4.29	
02 83 19 13-0058 SF Removal Of Lead Paint On Brick Or Concrete Block, Lead Contaminated Material.....	4.86	
02 83 19 13-0059 IN Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	3.75	
02 83 19 13-0060 IN Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	4.99	
02 83 19 13-0061 LF Demolish Wood Balustrades And Railings, Lead Contaminated Material.....	5.53	
02 83 19 13-0062 SF Demolish Concrete, Lead Contaminated Material	11.00	
02 83 19 13-0063 LF Demolish Cabinets, Lead Contaminated Material.....	25.63	
02 83 19 13-0064 SF Demolish Grilles, Lead Contaminated Material.....	3.09	
02 83 19 13-0065 EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material.....	13.32	
02 83 19 13-0066 LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material.....	5.46	
02 83 19 13-0067 LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material.....	7.98	
02 83 19 13-0068 LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material.....	12.05	
02 83 19 13-0069 LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material.....	22.22	
02 83 19 13-0070 EA Demolish Radiators, Lead Contaminated Material.....	95.98	
02 83 19 13-0071 SF Demolish Siding, Lead Contaminated Material	1.49	
02 83 19 13-0072 SF Demolish Flat Steel Surfaces, Lead Contaminated Material.....	3.45	
02 83 19 13-0073 SF Demolish Steel Beams, Lead Contaminated Material.....	4.07	
02 83 19 13-0074 SF Demolish Trusses, Lead Contaminated Material	5.34	
02 83 19 13-0075 SF Demolish Metal Stair, Lead Contaminated Material.....	6.35	
02 83 19 13-0076 LF Demolish Single Metal Hand Rail, Lead Contaminated Material.....	4.67	
02 83 19 13-0077 LF Demolish Metal Railing And Posts, Lead Contaminated Material	7.63	
02 83 19 13-0078 SF Demolish Metal Picket Fence, Lead Contaminated Material.....	2.10	
02 83 19 13-0079 SF Demolish Plywood, Lead Contaminated Material	5.74	
02 83 19 13-0080 SF Demolish Planks (Various Sizes), Lead Contaminated Material	2.80	
02 83 19 13-0081 EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material.....	17.51	
02 83 19 13-0082 LF Demolish Metal Guard Rails, Lead Contaminated Material	10.51	
02 83 19 13-0083 Wet Sanding Of Lead Contaminated Material (02 83 19 13)		
02 83 19 13-0084 SF Wet Sand/Scrape Of Lead Contaminated Material For Prep Before New Paint	1.52	
02 83 19 13-0085 Lead Abatement Encapsulation (02 83 19 13)		
Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0086 SF Balustrades, Lead Abatement Encapsulation	4.70	
02 83 19 13-0087 SF Brick, Concrete Block, Concrete, Lead Abatement Encapsulation	2.98	
02 83 19 13-0088 SF Columns, Lead Abatement Encapsulation.....	3.62	
02 83 19 13-0089 SF Picket Fence (Brush), Lead Abatement Encapsulation.....	2.11	
02 83 19 13-0090 SF Wood Floors (Roller), Lead Abatement Encapsulation	1.74	
02 83 19 13-0091 SF Grilles, Vents, Lead Abatement Encapsulation	5.09	
02 83 19 13-0092 EA Hangers, Lead Abatement Encapsulation	41.01	
02 83 19 13-0093 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	2.86	
02 83 19 13-0094 LF >4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	4.03	
02 83 19 13-0095 LF >8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	6.21	
02 83 19 13-0096 LF >12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	9.16	
02 83 19 13-0097 SF Siding, Lead Abatement Encapsulation	2.55	
02 83 19 13-0098 SF Steel, Flat Surfaces And Tanks Up To 12'; Lead Abatement Encapsulation	2.98	
02 83 19 13-0099 SF Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	3.93	
02 83 19 13-0100 SF Trusses, Lead Abatement Encapsulation	3.93	
02 83 33 Removal and Disposal of Material Containing Lead (02 83)		
02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)		
02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)		
02 83 33 13-0002 SF HEPA Vacuum And Wet Clean Lead Contaminated Area With Mild Detergent.....	0.23	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 33 13-0003	SF	HEPA Vacuum And Wet Clean Lead Contaminated Area With Tri-Sodium Phosphate.....	0.24	
02 83 33 13-0004	SF	HEPA Vacuum And Shampoo Lead Contaminated Carpeting.....	1.11	
02 86 Hazardous Waste Drum Handling (02 86)				
02 86 00 00-0001 Hazardous Waste Packaging (02 86)				
02 86 00 00-0002 Overpacks (02 86 00 00-0001)				
02 86 00 00-0003 Steel Salvage Drums, 16 Gauge (02 86 00 00-0002)				
02 86 00 00-0004	EA	110 Gallon, 30" Diameter X 41" High.....	275.72	
02 86 00 00-0005	EA	85 Gallon, 26" Diameter X 38" High.....	156.95	
02 86 00 00-0006	EA	83 Gallon, 26" Diameter X 36" High.....	151.48	
02 86 00 00-0007	EA	55 Gallon, DOT 17C, 18" Diameter X 34" High.....	94.77	
02 86 00 00-0008	EA	30 Gallon, DOT 17C, 18" Diameter X 28" High.....	74.66	
02 86 00 00-0009	EA	22 Gallon, 16" Diameter X 25" High.....	50.30	
02 86 00 00-0010	EA	15 Gallon, DOT 17C, 14" Diameter X 24" High.....	45.48	
02 86 00 00-0011	EA	10 Gallon, 13.8" Diameter X 15" High.....	40.07	
02 86 00 00-0012 Polyethylene Overpacks (02 86 00 00-0002)				
02 86 00 00-0013	EA	95 Gallon, DOT E9618, Twist On Lid 31" Diameter X 41" High.....	311.44	
02 86 00 00-0014	EA	20 Gallon, Labpack, Twist On Lid 21" Diameter X 7.5" High.....	57.55	
02 86 00 00-0015	EA	85 Gallon, DOT E9775, Clamp Ring Lid, 27" Diameter X 41" High.....	281.81	
02 86 00 00-0016 Composite Overpacks (02 86 00 00-0002)				
02 86 00 00-0017	EA	55 Gal, DOT 17C, Steel Drum Nested With 2-20 Gallon Fiber Drums.....	152.93	
02 86 00 00-0018	EA	55 Gal, DOT 17C, Steel Drum Nested With 4-10 Gallon Fiber Drums.....	209.86	
02 86 00 00-0019	EA	85 Gal, 16 Gauge Salvage Drum Nested With 3-20 Gallon Fiber Drums.....	284.65	
02 86 00 00-0020 DOT E-9168 Exempt Packaging (02 86 00 00-0002)				
02 86 00 00-0021	EA	32 Oz Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	10.27	
02 86 00 00-0022	EA	950 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	10.83	
02 86 00 00-0023	EA	500 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	10.59	
02 86 00 00-0024	EA	250 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	5.24	
02 86 00 00-0025	EA	Can, Carton, Insert, Tape - Corrosive And Flammable - UPS.....	8.19	
02 86 00 00-0026	EA	16 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS.....	6.32	
02 86 00 00-0027	EA	32 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS.....	8.22	
02 86 00 00-0028 Steel Drums (02 86 00 00-0001)				
02 86 00 00-0029 UN Rated Steel Drums (02 86 00 00-0028)				
02 86 00 00-0030	EA	UN 1A2/X 320/S 55 Gallon, Open, 16 Gauge, Steel Drum.....	105.73	
02 86 00 00-0031	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (25-49).....	941.24	
02 86 00 00-0032	EA	8 Gallon, 17C, Open.....	51.35	
02 86 00 00-0033	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (10-24).....	759.53	
02 86 00 00-0034	EA	55 Gallon Reconditioned Steel 17h Drum (50+).....	50.23	
02 86 00 00-0035	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (25-49).....	745.24	
02 86 00 00-0036	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (10-24).....	1,090.29	
02 86 00 00-0037	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (50+).....	892.24	
02 86 00 00-0038	EA	UN 1A2/X 320/S 55 Gallon, Closed, 16 Gauge, Steel Drum.....	99.94	
02 86 00 00-0039	EA	UN 1A2/Y 1.4/100 55 Gallon, Open, 16 Gauge, Steel Drum.....	81.03	
02 86 00 00-0040	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (1-9).....	986.16	
02 86 00 00-0041	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (25-49).....	1,069.87	
02 86 00 00-0042	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (50+).....	671.73	
02 86 00 00-0043	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (50+).....	963.70	
02 86 00 00-0044	EA	UN 1A2/Y 1.4/100 55 Gallon, Closed, 16 Gauge, Steel Drum.....	63.86	
02 86 00 00-0045	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (10-24).....	967.79	
02 86 00 00-0046	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	632.94	
02 86 00 00-0047	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	608.44	
02 86 00 00-0048	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	1,029.04	
02 86 00 00-0049	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (25-49).....	871.83	
02 86 00 00-0050	EA	UN 1A2/X 160/S 30 Gallon, Open, 18 Gauge, Steel Drum.....	74.03	
02 86 00 00-0051	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (50+).....	826.91	
02 86 00 00-0052	EA	UN 1A2/Y 1.4/100 30 Gallon, Open, 18 Gauge, Steel Drum.....	62.92	
02 86 00 00-0053	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	1,004.54	
02 86 00 00-0054	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	581.90	
02 86 00 00-0055	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	561.48	
02 86 00 00-0056	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	986.16	
02 86 00 00-0057	EA	30 Gallon, 17E, Open.....	45.65	
02 86 00 00-0058	EA	55 Gallon Reconditioned Steel 17h Drum (1-9).....	73.67	
02 86 00 00-0059	EA	20 Gallon, 17C, Open.....	64.16	
02 86 00 00-0060	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	888.16	
02 86 00 00-0061	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (1-9).....	1,063.75	
02 86 00 00-0062	EA	55 Gallon Reconditioned Steel 17h Drum (10-24).....	65.30	
02 86 00 00-0063	EA	55 Gallon Reconditioned Steel 17h Drum (25-49).....	56.93	
02 86 00 00-0064	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (1-9).....	777.91	



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

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 86 00 00-0065 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (10-24)	1,043.33	
02 86 00 00-0066 EA 20 Gallon, 17E, Open	43.18	
02 86 00 00-0067 Plastic Drums (02 86 00 00-0001)		
02 86 00 00-0068 Polyethylene Closed Head Drums (02 86 00 00-0067)		
Note: Closed head drums have standard NPS (National Pipe Standard) plug and drain vents. Primarily for liquids.		
02 86 00 00-0069 EA 55 Gallon Polyethylene Closed Head Drums	66.38	
02 86 00 00-0070 EA 35 Gallon Polyethylene Closed Head Drums	50.95	
02 86 00 00-0071 EA 30 Gallon Polyethylene Closed Head Drums	46.27	
02 86 00 00-0072 EA 20 Gallon Polyethylene Closed Head Drums	32.32	
02 86 00 00-0073 EA 15 Gallon Polyethylene Closed Head Drums	31.71	
02 86 00 00-0074 Polyethylene Open Head Drums (02 86 00 00-0067)		
Note: Open head drums are primarily used for solids and sludge.		
02 86 00 00-0075 EA 55 Gallon Polyethylene Open Head Drums	83.90	
02 86 00 00-0076 EA 35 Gallon Polyethylene Open Head Drums	61.69	
02 86 00 00-0077 EA 30 Gallon Polyethylene Open Head Drums	58.60	
02 86 00 00-0078 EA 20 Gallon Polyethylene Open Head Drums	43.18	
02 86 00 00-0079 EA 15 Gallon Polyethylene Open Head Drums	37.01	
02 86 00 00-0080 Fiber Drums (02 86 00 00-0001)		
02 86 00 00-0081 Steel Top/Fiber Bottom Drums, Hazardous (02 86 00 00-0080)		
Note: Waste fiber drums have tubular rubber gaskets and caulked bottom seams.		
02 86 00 00-0082 EA 30 Gallon Fiber Drum DOT-21C (1-9)	50.83	
02 86 00 00-0083 EA 30 Gallon Fiber Drum DOT-21C (10-24)	47.62	
02 86 00 00-0084 EA 30 Gallon Fiber Drum DOT-21C (25-49)	43.43	
02 86 00 00-0085 EA 30 Gallon Fiber Drum DOT-21C (50+)	42.94	
02 86 00 00-0086 EA 55 Gallon Fiber Drum DOT-21C (1-9)	52.31	
02 86 00 00-0087 EA 55 Gallon Fiber Drum DOT-21C (10-24)	49.35	
02 86 00 00-0088 EA 55 Gallon Fiber Drum DOT-21C (25-49)	45.65	
02 86 00 00-0089 EA 55 Gallon Fiber Drum DOT-21C (50-99)	44.17	
02 86 00 00-0090 EA 55 Gallon Fiber Drum DOT-21C (100+)	38.25	
02 86 00 00-0091 EA 10 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	32.57	
02 86 00 00-0092 EA 20 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	35.53	
02 86 00 00-0093 EA 20 Gallon, 23" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	41.45	
02 86 00 00-0094 Loading Hazardous Waste For Shipment (02 86 00 00-0001)		
02 86 00 00-0095 EA Load Drums On Disposal Truck	8.54	
02 86 00 00-0096 EA Load Liquid Or Sludge Into 5,000 Gallon Bulk Tank Truck	909.81	
02 86 00 00-0097 Transport Drums To Landfill (02 86 00 00-0001)		
Note: Includes transportation for up to 25 miles.		
02 86 00 00-0098 EA Transport Drum To Landfill	54.42	
Note: Includes transportation for up to 25 miles.		
02 87 Bio-Hazard Material Remediation (02 80)		
Note: Tasks includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
02 87 13 Mold Remediation (02 87)		
Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which task applies. See CSI section 01 74 19 00-0048 for hauling in excess of 25 miles to transfer or disposal site, 02 81 00 00-0000 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0007 for plastic sheeting for containment construction, 02 89 00 00-0014 for decontamination chambers.		
02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)		
02 87 13 33-0001 Minimum Charge For Mold Remediation (02 87 13 33)		
02 87 13 33-0002 EA Mold Remediation Minimum Show Up Charge	778.90	
Note: For projects where the total mold remediation charge is less than the minimum charge, use task "Minimum Charge For Mold Remediation" exclusively. Task "Minimum Charge For Mold Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.		
02 87 13 33-0003 Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33)		
Note: Treat fittings as additional lf of insulation.		



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0004	Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0003) Note: Diameter is outer size of insulation.		
02 87 13 33-0005	Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0004) Note: Excludes encased fittings.		
02 87 13 33-0006	LF Up To 25 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	26.89	
02 87 13 33-0007	LF >25 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	20.06	
02 87 13 33-0008	LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	15.04	
02 87 13 33-0009	LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	11.29	
02 87 13 33-0010	LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	8.46	
02 87 13 33-0011	LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	7.37	
02 87 13 33-0012	>6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0004)		
02 87 13 33-0013	LF Up To 25 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	30.92	
02 87 13 33-0014	LF >25 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	23.08	
02 87 13 33-0015	LF >250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	17.31	
02 87 13 33-0016	LF >500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	12.98	
02 87 13 33-0017	LF >2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	9.74	
02 87 13 33-0018	LF >10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	8.47	
02 87 13 33-0019	Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0020	Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0019)		
02 87 13 33-0021	SF Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	16.21	
02 87 13 33-0022	SF >50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	11.53	
02 87 13 33-0023	SF >500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	8.65	
02 87 13 33-0024	SF >2,500 To 10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	6.49	
02 87 13 33-0025	SF >10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	4.98	
02 87 13 33-0026	Surfacing Material, Mold Abatement And Disposal (02 87 13 33) Note: e.g. fireproofing, acoustical plaster, etc.		
02 87 13 33-0027	Stucco, Mold Abatement And Disposal (02 87 13 33-0026) Note: Remove surface coat from brown coat or remove entire assembly, including lath.		
02 87 13 33-0028	SF Up To 100 SF, Stucco, Mold Abatement And Disposal	16.21	
02 87 13 33-0029	SF >100 To 500 SF, Stucco, Mold Abatement And Disposal	11.53	
02 87 13 33-0030	SF >500 To 2,500 SF, Stucco, Mold Abatement And Disposal	8.65	
02 87 13 33-0031	SF >2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	6.49	
02 87 13 33-0032	SF >10,000 SF, Stucco, Mold Abatement And Disposal	4.88	
02 87 13 33-0033	Fireproofing, Mold Abatement And Disposal (02 87 13 33-0026) Note: Exposed surface area, includes associated overspray.		
02 87 13 33-0034	SF Up To 100 SF, Fireproofing, Mold Abatement And Disposal	16.21	
02 87 13 33-0035	SF >100 To 500 SF, Fireproofing, Mold Abatement And Disposal	15.89	
02 87 13 33-0036	SF >500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	11.93	
02 87 13 33-0037	SF >2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	8.95	
02 87 13 33-0038	SF >10,000 SF, Fireproofing, Mold Abatement And Disposal	6.71	
02 87 13 33-0039	Siding, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0040	Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0039)		
02 87 13 33-0041	SF Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal	7.21	
02 87 13 33-0042	SF >100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	4.63	
02 87 13 33-0043	SF >500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	3.16	
02 87 13 33-0044	SF >2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.08	
02 87 13 33-0045	SF >10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	1.85	
02 87 13 33-0046	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0047	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0046)		
02 87 13 33-0048	CF Up To 10 CF, Contaminated Debris, Mold Abatement And Disposal	29.92	
02 87 13 33-0049	CF >10 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	17.95	
02 87 13 33-0050	CF >100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	11.97	
02 87 13 33-0051	CF >250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	8.97	
02 87 13 33-0052	CF >500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	7.18	
02 87 13 33-0053	CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	3.92	
02 87 13 33-0054	CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal	3.53	
02 87 13 33-0055	Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0056	Caulking, Mold Abatement And Disposal (02 87 13 33-0055)		
02 87 13 33-0057	LF Up To 10 LF, Caulking, Mold Abatement And Disposal	3.06	
02 87 13 33-0058	LF >10 To 50 LF, Caulking, Mold Abatement And Disposal	2.59	
02 87 13 33-0059	LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	1.85	



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

02

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0060	LF	>100 To 250 LF, Caulking, Mold Abatement And Disposal	1.40	
02 87 13 33-0061	LF	>250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.04	
02 87 13 33-0062	LF	>1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	0.84	
02 87 13 33-0063	LF	>2,500 LF, Caulking, Mold Abatement And Disposal	0.72	
02 87 13 33-0064 Wipe Down Walls, Ceilings And Floors (02 87 13 33-0055)				
02 87 13 33-0065	CSF	Wipe Down Floors With Mild Bleach Solution	14.41	
02 87 13 33-0066	CSF	Wipe Down Walls With Mild Bleach Solution	16.96	
02 87 13 33-0067	CSF	Wipe Down Ceilings With Mild Bleach Solution	19.29	
02 87 13 33-0068	CSF	Wipe Down Countertops With Mild Bleach Solution	15.73	
02 87 13 33-0069	CSF	Wipe Down Other Surfaces With Mild Bleach Solution	19.96	
02 87 16 Excrement Removal (02 87)				
02 87 16 13 Bird Excrement Removal (02 87 16)				
02 87 16 13-0001 Bird Waste Removal (02 87 16 13)				
Note: In addition to items listed the Bio-Hazard Material Remediation note above, tasks include wetting agents and disinfection of contaminated surfaces.				
02 87 16 13-0002	EA	Up To 10 SF Bird Waste Removal, Up To 3" Thickness	518.94	
		For Work In Restricted Working Space, Add	155.68	
02 87 16 13-0003	SF	>10 To 500 SF Bird Waste Removal, Up To 3" Thickness	8.65	
		For Work In Restricted Working Space, Add	2.60	
02 87 16 13-0004	SF	>500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	7.86	
		For Work In Restricted Working Space, Add	2.36	
02 87 16 13-0005	SF	>2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	7.15	
		For Work In Restricted Working Space, Add	2.15	
02 87 16 13-0006	SF	>10,000 SF Bird Waste Removal, Up To 3" Thickness	6.50	
		For Work In Restricted Working Space, Add	1.95	
02 89 Hazmat Ancillary Tasks And Support (02 89)				
02 89 00 00-0001 Barriers And Protection (02 89)				
Note: Includes removal and disposal after use.				
02 89 00 00-0002 Cleaning Surfaces (02 89 00 00-0001)				
Note: Other surfaces outside contamination area but not contaminated by, or part of removal.				
02 89 00 00-0003	SF	Up To 100 SF, Clean Asbestos Surface	1.26	
02 89 00 00-0004	SF	>100 To 500 SF, Clean Asbestos Surface	0.89	
02 89 00 00-0005	SF	>500 To 1,000 SF, Clean Asbestos Surface	0.57	
02 89 00 00-0006	SF	>1,000 SF, Clean Asbestos Surface	0.44	
02 89 00 00-0007 Hazmat Containment Construction (02 89 00 00-0001)				
02 89 00 00-0008	SF	6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction	0.31	
02 89 00 00-0009	SF	6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.41	
02 89 00 00-0010	SF	6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.55	
02 89 00 00-0011	SF	6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction	0.51	
02 89 00 00-0012	SF	6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	0.65	
02 89 00 00-0013	SF	6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.86	
02 89 00 00-0014 Decontamination Chambers (02 89)				
Note: Includes removal after use.				
02 89 00 00-0015	EA	Portable Personnel Decontamination Wash Facility (3 Stage)	639.94	
		Note: Includes connection to negative air system.		
		For Dismantling And Relocation To A Different Area, Add	394.64	
02 89 00 00-0016	EA	Portable Personnel Decontamination Wash Facility (5 Stage)	756.23	
		Note: Includes connection to negative air system.		
		For Dismantling And Relocation To A Different Area, Add	470.38	
02 89 00 00-0017	EA	Portable Waste Decontamination Unit	406.83	
		Note: Includes connection to negative air system.		
		For Dismantling And Relocation To A Different Area, Add	284.18	

END OF SECTION 02

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



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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

03

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

03 Concrete

03 01 Maintenance Of Concrete⁽⁰³⁾

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

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

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

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

03 01 30 51-0002	SF	Concrete Floors, Abrasive Shot Blasting	1.96
		For Up To 100, Add	2.40
		For >100 To 250, Add	0.60
		For >250 To 500, Add	0.30
		For >5,000 To 10,000, Deduct	-0.06
		For >10,000, Deduct	-0.12
03 01 30 51-0003	SF	Concrete Walls, Abrasive Shot Blasting	3.14
		For Up To 100, Add	4.76
		For >100 To 250, Add	1.19
		For >250 To 500, Add	0.60
		For >5,000 To 10,000, Deduct	-0.12
		For >10,000, Deduct	-0.24

03 01 30 71 Rehabilitation Of Cast-in-Place Concrete^(03 01 30)

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

See CSI section 09 91 43 00-0002 for surface preparation as required.

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

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

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

03 01 30 71-0004	SF	1/8" To 1/4", Cementitious Mortar Patch, Decks And Floors.....	5.45
03 01 30 71-0005	SF	1/8" To 1/4", Epoxy Cementitious Mortar Patch, Decks And Floors.....	18.43
03 01 30 71-0006	SF	White Aluminum Oxide Grit (Non Slip Aggregate) Patch, Decks And Floors.....	0.50

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

03 01 30 71-0008	SY	Grinding Cured, Warped, Or Rough Slabs	1.55

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

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

03 01 30 71-0010	SF	1/8" To 1/4" Cementitious Mortar Patch, Verticals And Overheads	8.09
03 01 30 71-0011	SF	1/8" To 1/4" Epoxy Cementitious Mortar Patch, Verticals And Overheads	24.45
03 01 30 71-0012	SF	1/8" To 1/4" Latex Cementitious Mortar Patch, Verticals And Overheads	27.73
03 01 30 71-0013	SF	1/8" To 1/4" Elastomeric Compound Patch, Verticals And Overheads	5.99
03 01 30 71-0014	SF	1/8" To 1/4" Copolymer Cementitious Compound Patch, Verticals And Overheads.....	10.44

Note: Rapid Set - Wunderfixx

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

03 01 30 71-0016	SF	Sweep Bridge Deck	0.01
03 01 30 71-0017	SF	Clean Bridge Deck.....	0.02
03 01 30 71-0018	SF	Treat Bridge Deck With Methacrylate Resin Sealant	1.41

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

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

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

03 01 30 71-0022	BAG	Sika Top 111 Plus.....	106.06
		Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar.	
		Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
		For Up To 10, Add	35.01
		For >10 To 25, Add	21.01
		For >25 To 50, Add	14.00
		For >50 To 75, Add	7.00
03 01 30 71-0023	BAG	Sika Grout 212, 50 LB Bag	74.39
		Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
		For Up To 10, Add	22.18
		For >10 To 25, Add	13.31
		For >25 To 50, Add	8.87
		For >50 To 75, Add	4.44
03 01 30 71-0024	EA	Sika Flex 1A, 10.3 Ounce Tube.....	28.75
		Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	
03 01 30 71-0025	BAG	Pea Gravel.....	20.33

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

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
03 01 30 71-0026	Crack Repair For Concrete (03 01 30 71-0001)				
03 01 30 71-0027	Non Structural Crack Repair For Concrete (03 01 30 71-0026)				
03 01 30 71-0028	Surface Applied, Non Structural Crack Repair For Concrete (03 01 30 71-0027)				
	Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.				
03 01 30 71-0029	LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	4.86			
	For V-Grooving Crack With Grinder, Add	3.91			
03 01 30 71-0030	LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	6.33			
	For V-Grooving Crack With Grinder, Add	3.82			
03 01 30 71-0031	LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	4.94			
	For V-Grooving Crack With Grinder, Add	3.91			
03 01 30 71-0032	LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	6.49			
	For V-Grooving Crack With Grinder, Add	3.82			
03 01 30 71-0033	LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	5.22			
	For V-Grooving Crack With Grinder, Add	3.91			
03 01 30 71-0034	LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	7.04			
	For V-Grooving Crack With Grinder, Add	3.82			
03 01 30 71-0035	LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	5.42			
	For V-Grooving Crack With Grinder, Add	3.91			
03 01 30 71-0036	LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	7.45			
	For V-Grooving Crack With Grinder, Add	3.82			
03 01 30 71-0037	Pressure Injected, Non Structural Crack Repair For Concrete (03 01 30 71-0027)				
	Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.				
03 01 30 71-0038	LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	20.51			
	For Cracks Accessible From Both Sides, Add	4.16			
03 01 30 71-0039	Structural Crack Repair For Concrete (03 01 30 71-0026)				
03 01 30 71-0040	Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0039)				
	Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.				
03 01 30 71-0041	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	5.47			
	For V-Grooving Crack With Grinder, Add	3.91			
03 01 30 71-0042	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	7.55			
	For V-Grooving Crack With Grinder, Add	3.82			
03 01 30 71-0043	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	5.66			
	For V-Grooving Crack With Grinder, Add	3.91			
03 01 30 71-0044	LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	7.93			
	For V-Grooving Crack With Grinder, Add	3.82			
03 01 30 71-0045	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	6.26			
	For V-Grooving Crack With Grinder, Add	3.91			
03 01 30 71-0046	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	9.14			
	For V-Grooving Crack With Grinder, Add	3.82			
03 01 30 71-0047	Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0039)				
	Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.				
03 01 30 71-0048	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	18.34			
	For Cracks Accessible From Both Sides, Add	4.16			
03 01 30 71-0049	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	18.53			
	For Cracks Accessible From Both Sides, Add	4.16			
03 01 30 71-0050	Carbon Fiber Strengthening System (03 01 30 71-0001)				
	Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.				



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

03

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0051 SF Carbon Fiber Strengthening System Beams, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	60.34	
03 01 30 71-0052 SF Carbon Fiber Strengthening System Columns, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	52.87	
03 01 30 71-0053 SF Carbon Fiber Strengthening System Slabs, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	46.33	

03 05 Common Work Results For Concrete (03)

03 05 00 00-0001 Concrete Admixtures (03 05)

03 05 00 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture	3.69
03 05 00 00-0003 CY Set Retarding, Type B Concrete Admixture	2.56
03 05 00 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	3.98
03 05 00 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	7.95
03 05 00 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture.....	7.10
03 05 00 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture.....	14.20
03 05 00 00-0008 CY Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	3.07
03 05 00 00-0009 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	4.26
03 05 00 00-0010 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	8.52
03 05 00 00-0011 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	5.38
03 05 00 00-0012 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture.....	6.82
03 05 00 00-0013 CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	9.09
03 05 00 00-0014 CY 25 LB/CY Steel Fibers, Concrete Admixture	21.51
03 05 00 00-0015 CY 10% Microsilica (Silica Fume), Concrete Admixture	86.11
03 05 00 00-0016 CY Corrosion Inhibiting Concrete Admixture	17.04
03 05 00 00-0017 CY Winter Service Or Heat, Concrete Add	3.98
03 05 00 00-0018 CY Chilled Water, Concrete Add	3.98
03 05 00 00-0019 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture	23.01
03 05 00 00-0020 CY Standard Color (See Davis Colors Color Card), Concrete Admixture.....	38.34
03 05 00 00-0021 CY Premium Color (See Davis Colors Color Card), Concrete Admixture.....	73.62
03 05 00 00-0022 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	102.25

03 10 Concrete Forming And Accessories (03)

03 11 Concrete Forming (03 10)

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

Note: Per square foot of formwork.

03 11 13 00-0001 Wood Formwork (03 11 13)

Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.

03 11 13 00-0002 Foundation Wood Formwork (03 11 13 00-0001)

Note: For foundation work below or at grade.

03 11 13 00-0003 SF Continuous Footings Foundation Wood Formwork.....	6.68
For <1,000, Add	1.24
For Foundations >8' Below Grade, Add	1.19
For Curved Formwork, Add	2.39
03 11 13 00-0004 SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork.....	7.95
For <1,000, Add	1.49
For Foundations >8' Below Grade, Add	1.44
For Curved Formwork, Add	2.88
03 11 13 00-0005 SF Mat Foundation Wood Formwork.....	9.17
For <1,000, Add	1.74
For Foundations >8' Below Grade, Add	1.70
For Curved Formwork, Add	3.40
03 11 13 00-0006 SF Grade Beams Or Duct Bank Foundation Wood Formwork	7.67
For <1,000, Add	1.44
For Foundations >8' Below Grade, Add	1.40
For Curved Formwork, Add	2.80
03 11 13 00-0007 SF Below Grade Walls Foundation Wood Formwork	10.89
Note: Excludes footing	
For <1,000, Add	2.04
For Foundations >8' Below Grade, Add	1.98
For Curved Formwork, Add	3.95

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

03 11 13 00-0009 LF Up To 6" High Slab Edge and Block-Out Wood Formwork	5.14
For Foundations >8' Below Grade, Add	0.95
For Curved Formwork, Add	1.90
For Up To 250, Add	0.98
03 11 13 00-0010 LF >6" To 12" High Slab Edge and Block-Out Wood Formwork	7.39
For Foundations >8' Below Grade, Add	1.33
For Curved Formwork, Add	2.66
For Up To 250, Add	1.38
03 11 13 00-0011 SF >12" High Slab Edge and Block-Out Wood Formwork.....	9.48
For Foundations >8' Below Grade, Add	1.72
For Curved Formwork, Add	3.44
For <1,000, Add	1.78

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
03 11 13 00-0012 Column Wood Formwork (03 11 13 00-0001)					
03 11 13 00-0013	LF	Up To 8" Square Column Wood Formwork.....	39.92		
03 11 13 00-0014	LF	>8" To 12" Square Column Wood Formwork.....	58.30		
03 11 13 00-0015	LF	>12" To 18" Square Column Wood Formwork.....	73.08		
03 11 13 00-0016	LF	>18" To 24" Square Column Wood Formwork.....	104.49		
03 11 13 00-0017	LF	>24" To 36" Square Column Wood Formwork.....	149.82		
03 11 13 00-0018	LF	>36" To 48" Square Column Wood Formwork.....	197.63		
03 11 13 00-0019 Above Grade Wall Wood Formwork (03 11 13 00-0001)					
03 11 13 00-0020	SF	Up To 8' High Above Grade Wall Wood Formwork.....	12.16		
		For Curved Formwork, Add	4.46		
		For <1,000, Add	2.30		
03 11 13 00-0021	SF	>8' High Above Grade Wall Wood Formwork.....	14.40		
		For Curved Formwork, Add	5.29		
		For <1,000, Add	2.72		
03 11 13 00-0022 Elevated Beam Wood Formwork (03 11 13 00-0001)					
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.					
03 11 13 00-0023	SF	Bottom of Elevated Beam Wood Formwork.....	15.71		
		For Curved Formwork, Add	5.79		
		For <1,000, Add	2.98		
03 11 13 00-0024	SF	Vertical Sides of Elevated Beam Wood Formwork.....	10.07		
		For Curved Formwork, Add	3.71		
		For <1,000, Add	1.91		
03 11 13 00-0025 Elevated Slab Wood Formwork (03 11 13 00-0001)					
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.					
03 11 13 00-0026	SF	Elevated Slab Wood Formwork.....	9.29		
		For <1,000, Add	1.71		
03 11 13 00-0027 Metal Framed Formwork (03 11 13)					
Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.					
03 11 13 00-0028 Foundation Metal Framed Formwork (03 11 13 00-0027)					
Note: For foundation work below or at grade.					
03 11 13 00-0029	SF	Continuous Footings Foundation Metal Framed Formwork.....	5.49		
		For <1,000, Add	1.06		
		For Foundations >8' Below Grade, Add	1.04		
		For Curved Formwork, Add	2.09		
03 11 13 00-0030	SF	Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork.....	6.16		
		For <1,000, Add	1.19		
		For Foundations >8' Below Grade, Add	1.18		
		For Curved Formwork, Add	2.35		
03 11 13 00-0031	SF	Mat Foundation Metal Framed Formwork.....	6.79		
		For <1,000, Add	1.31		
		For Foundations >8' Below Grade, Add	1.29		
		For Curved Formwork, Add	2.58		
03 11 13 00-0032	SF	Grade Beams Or Duct Bank Foundation Metal Framed Formwork.....	5.72		
		For <1,000, Add	1.10		
		For Foundations >8' Below Grade, Add	1.08		
		For Curved Formwork, Add	2.17		
03 11 13 00-0033	SF	Below Grade Walls Foundation Metal Framed Formwork.....	8.91		
		Note: Excludes footing.			
		For <1,000, Add	1.73		
		For Foundations >8' Below Grade, Add	1.71		
		For Curved Formwork, Add	3.41		
03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)					
03 11 13 00-0035	LF	Up To 6" High Slab Edge and Block-Out Metal Framed Formwork.....	4.30		
		For Foundations >8' Below Grade, Add	0.85		
		For Curved Formwork, Add	1.70		
		For <250, Add	0.85		
03 11 13 00-0036	LF	>6" To 12" High Slab Edge and Block-Out Metal Framed Formwork.....	5.36		
		For Foundations >8' Below Grade, Add	1.06		
		For Curved Formwork, Add	2.11		
		For <250, Add	1.06		
03 11 13 00-0037	SF	>12" High Slab Edge and Block-Out Metal Framed Formwork.....	5.93		
		For Foundations >8' Below Grade, Add	1.17		
		For Curved Formwork, Add	2.34		
		For <1,000, Add	1.17		
03 11 13 00-0038 Column Metal Framed Formwork (03 11 13 00-0027)					
03 11 13 00-0039 Square Columns (03 11 13 00-0038)					
03 11 13 00-0040	LF	Up To 12" Square Column Metal Framed Formwork.....	33.08		



		Concrete	03	CS
		Concrete Forming And Accessories	03 10	
		Concrete Forming	03 11	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
03 11 13 00-0041	LF	>12" To 16" Square Column Metal Framed Formwork		39.70	
03 11 13 00-0042	LF	>16" To 20" Square Column Metal Framed Formwork		46.34	
03 11 13 00-0043	LF	>20" To 24" Square Column Metal Framed Formwork		55.51	
03 11 13 00-0044	LF	>24" To 30" Square Column Metal Framed Formwork		66.72	
03 11 13 00-0045	LF	>30" To 36" Square Column Metal Framed Formwork		79.88	
03 11 13 00-0046	LF	>36" To 48" Square Column Metal Framed Formwork		102.31	
03 11 13 00-0047	LF	>48" To 60" Square Column Metal Framed Formwork		125.81	
03 11 13 00-0048		Round Columns (03 11 13 00-0038)			
03 11 13 00-0049	LF	Up To 12" Diameter Column Metal Formwork		25.13	
03 11 13 00-0050	LF	>12" To 16" Diameter Column Metal Formwork.....		28.53	
03 11 13 00-0051	LF	>16" To 20" Diameter Column Metal Formwork.....		33.37	
03 11 13 00-0052	LF	>20" To 24" Diameter Column Metal Formwork.....		40.04	
03 11 13 00-0053	LF	>24" To 30" Diameter Column Metal Formwork.....		48.02	
03 11 13 00-0054	LF	>30" To 36" Diameter Column Metal Formwork.....		55.54	
03 11 13 00-0055	LF	>36" To 48" Diameter Column Metal Formwork.....		69.18	
03 11 13 00-0056	LF	>48" To 60" Diameter Column Metal Formwork.....		83.37	
03 11 13 00-0057		Above Grade Wall Metal Framed Formwork(03 11 13 00-0027)			
03 11 13 00-0058	SF	Up to 8' High Above Grade Wall Metal Framed Formwork		5.15	
		For Curved Formwork, Add		1.91	
		For <1,000, Add		0.98	
03 11 13 00-0059	SF	>8' High Above Grade Wall Metal Framed Formwork.....		6.22	
		For Curved Formwork, Add		2.30	
		For <1,000, Add		1.18	
03 11 13 00-0060		Elevated Beam Metal Framed Formwork(03 11 13 00-0027)			
		Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.			
03 11 13 00-0061	SF	Bottom of Elevated Beam Metal Framed Formwork		5.14	
		For Curved Formwork, Add		1.78	
		For <1,000, Add		0.94	
03 11 13 00-0062	SF	Vertical Sides of Elevated Beam Metal Framed Formwork.....		3.78	
		For Curved Formwork, Add		1.39	
		For <1,000, Add		0.72	
03 11 13 00-0063		Elevated Slab Metal Framed Formwork(03 11 13 00-0027)			
		Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.			
03 11 13 00-0064	SF	Elevated Slab Metal Framed Formwork.....		6.77	
		For <1,000, Add		1.10	
03 11 13 00-0065		Fiber Tube Formwork (03 11 13)			
		Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.			
03 11 13 00-0066		Round Column Fiber Tube Formwork (03 11 13 00-0065)			
03 11 13 00-0067	LF	6" Diameter Round Fiber Tube Formwork		15.17	
		For Plastic Lined, Add		0.48	
		For Columns >12' In Length, Add		1.52	
03 11 13 00-0068	LF	8" Diameter Round Fiber Tube Formwork		15.97	
		For Plastic Lined, Add		0.56	
		For Columns >12' In Length, Add		1.60	
03 11 13 00-0069	LF	10" Diameter Round Fiber Tube Formwork		17.60	
		For Plastic Lined, Add		0.65	
		For Columns >12' In Length, Add		1.76	
03 11 13 00-0070	LF	12" Diameter Round Fiber Tube Formwork		20.65	
		For Plastic Lined, Add		0.93	
		For Columns >12' In Length, Add		2.07	
03 11 13 00-0071	LF	14" Diameter Round Fiber Tube Formwork		23.20	
		For Plastic Lined, Add		1.26	
		For Columns >12' In Length, Add		2.32	
03 11 13 00-0072	LF	16" Diameter Round Fiber Tube Formwork		25.00	
		For Plastic Lined, Add		1.59	
		For Columns >12' In Length, Add		2.50	
03 11 13 00-0073	LF	18" Diameter Round Fiber Tube Formwork		26.22	
		For Plastic Lined, Add		1.73	
		For Columns >12' In Length, Add		2.62	
03 11 13 00-0074	LF	20" Diameter Round Fiber Tube Formwork		28.40	
		For Plastic Lined, Add		2.16	
		For Columns >12' In Length, Add		2.84	
03 11 13 00-0075	LF	22" Diameter Round Fiber Tube Formwork		30.96	
		For Plastic Lined, Add		2.60	
		For Columns >12' In Length, Add		3.10	
03 11 13 00-0076	LF	24" Diameter Round Fiber Tube Formwork		33.50	
		For Plastic Lined, Add		3.05	
		For Columns >12' In Length, Add		3.35	
03 11 13 00-0077	LF	26" Diameter Round Fiber Tube Formwork		34.85	
		For Plastic Lined, Add		3.33	
		For Columns >12' In Length, Add		3.49	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	36.90 3.82 3.69	
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	39.10 4.35 3.91	
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	46.87 6.22 4.69	
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	62.47 10.57 6.25	
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	73.74 13.62 7.37	
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	119.69 26.87 11.97	
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	132.68 30.36 13.27	
03 11 13 00-0085 Accessories For Formwork (03 11 13)		
03 11 13 00-0086 Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials.....	1.87	
03 11 13 00-0088 Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	1.96	
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.28	
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.63	
03 11 13 00-0092 Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork	9.11	
03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	11.29	
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	13.74	
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	16.63	
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	19.02	
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	24.54	
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	54.85	
03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 00-0001 Concrete Form Liners (03 11 16)		
03 11 16 00-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....	4.76	
03 11 16 00-0003 SF Rusticated Concrete Finish, Beveled Edge, 1 Use, Concrete Form Liner, Add To Formwork	6.12	
03 11 16 00-0004 SF Rusticated Concrete Finish, Square Edge, 1 Use, Concrete Form Liner, Add To Formwork.....	8.02	
03 11 23 Permanent Stair Forming (03 11)		
03 11 23 00-0001 Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork	15.33	
For Curved Formwork, Add	5.88	
For <1,000, Add	2.98	
03 11 23 00-0003 SF Elevated Stairway Wood Formwork	30.28	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
For Curved Formwork, Add	11.48	
For <1,000, Add	5.85	
03 11 23 00-0004 Stairway Metal Framed Formwork (03 11 23)		
03 11 23 00-0005 SF Cast On Grade Stairway Metal Framed Formwork	12.17	
For Curved Formwork, Add	4.76	
For <1,000, Add	2.40	
03 11 23 00-0006 SF Elevated Stairway Metal Framed Formwork	22.78	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
For Curved Formwork, Add	8.86	
For <1,000, Add	4.47	

03 15 Concrete Accessories (03 10)**03 15 13 Waterstops (03 15)****03 15 13 13 Non-Expanding Waterstops (03 15 13)**



Concrete		03	CS
Concrete Forming And Accessories		03 10	
Concrete Accessories		03 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)		
03 15 13 13-0002 LF 3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop.....	7.29	
03 15 13 13-0003 LF 3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop.....	8.20	
03 15 13 13-0004 LF 3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb.....	9.88	
03 15 13 13-0005 LF 3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb.....	10.83	
03 15 13 13-0006 LF 1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop.....	16.22	
03 15 13 13-0007 LF 3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop.....	8.00	
03 15 13 13-0008 LF 3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop.....	10.02	
03 15 13 13-0009 LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop.....	17.71	
03 15 13 13-0010 LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb.....	14.01	
03 15 13 13-0011 Rubber Waterstops (03 15 13 13)		
03 15 13 13-0012 LF 3/8" Thick x 6" Wide Rubber Dumbbell Waterstop.....	8.35	
03 15 13 13-0013 LF 3/8" Thick x 9" Wide Rubber Dumbbell Waterstop.....	9.64	
03 15 13 13-0014 LF 1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb.....	8.87	
03 15 13 13-0015 LF 1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb.....	12.30	
03 15 13 13-0016 LF 3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb.....	10.05	
03 15 13 13-0017 LF 3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb.....	13.00	
03 15 13 16 Expanding Waterstops (03 15 13)		
03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)		
03 15 13 16-0002 LF 3/4" x 3/8" Bentonite Waterstop.....	6.46	
03 15 13 16-0003 LF 1-1/4" x 1/2" Bentonite Waterstop.....	9.89	
03 15 13 16-0004 LF 1" x 3/4" Bentonite Waterstop.....	11.12	
03 15 13 16-0005 LF 1" x 1" Bentonite Waterstop.....	12.58	
03 15 16 Concrete Construction Joints (03 15)		
03 15 16 00-0001 Poured Expansion Joint (03 15 16)		
03 15 16 00-0002 LF 1/2" x 1" Plain Asphalt Expansion Joint, Poured.....	2.07	0.68
For Installation In Walls, Add		1.13
03 15 16 00-0003 LF 1" x 2" Plain Asphalt Expansion Joint, Poured.....	3.72	0.68
For Installation In Walls, Add		1.28
03 15 16 00-0004 LF 1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied.....	2.61	0.68
For Installation In Walls, Add		1.13
03 15 16 00-0005 LF 1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied.....	6.16	0.68
For Installation In Walls, Add		1.28
03 15 16 00-0006 LF 1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts.....	3.76	0.68
For Installation In Walls, Add		1.28
03 15 16 00-0007 LF 1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts.....	6.86	0.68
For Installation In Walls, Add		2.07
03 15 16 00-0008 LF 1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied.....	1.69	0.68
For Installation In Walls, Add		1.13
03 15 16 00-0009 LF 1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant.....	1.90	0.68
For Installation In Walls, Add		1.13
03 15 16 00-0010 LF 1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant.....	2.42	0.68
For Installation In Walls, Add		1.28
03 15 16 00-0011 Premolded Expansion Joints (03 15 16)		
03 15 16 00-0012 Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0013 LF 1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint.....	1.96	0.92
03 15 16 00-0014 LF 1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.20	0.98
03 15 16 00-0015 LF 1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.35	1.02
03 15 16 00-0016 LF 1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.51	1.07
03 15 16 00-0017 LF 3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.09	0.92
03 15 16 00-0018 LF 3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.30	0.98
03 15 16 00-0019 LF 3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.54	1.02
03 15 16 00-0020 LF 3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.87	1.07
03 15 16 00-0021 LF 1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint.....	1.92	0.88
03 15 16 00-0022 LF 1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.07	0.92
03 15 16 00-0023 LF 1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.25	0.98
03 15 16 00-0024 LF 1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.40	1.02
03 15 16 00-0025 LF 1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.58	1.07
03 15 16 00-0026 LF 1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.82	1.12
03 15 16 00-0027 LF 1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.01	1.16
03 15 16 00-0028 LF 1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.33	1.21
03 15 16 00-0029 LF 3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.26	0.98
03 15 16 00-0030 LF 3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.53	1.02
03 15 16 00-0031 LF 3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.02	1.12
03 15 16 00-0032 SF 1" Asphalt Saturated Fiber, Premolded Expansion Joint.....	5.00	1.53
03 15 16 00-0033 Cork, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0034 LF 1/2" x 4" Cork, Premolded Expansion Joint.....	2.99	0.98
03 15 16 00-0035 LF 1/2" x 6" Cork, Premolded Expansion Joint.....	3.35	1.07

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0036	LF	1/2" x 8" Cork, Premolded Expansion Joint	3.61	1.12
03 15 16 00-0037	LF	1/2" x 10" Cork, Premolded Expansion Joint.....	4.82	1.16
03 15 16 00-0038	LF	1/2" x 12" Cork, Premolded Expansion Joint.....	5.12	1.21
03 15 16 00-0039	SF	1/2" Cork, Premolded Expansion Joint.....	5.78	1.53
03 15 16 00-0040	SF	3/4" Cork, Premolded Expansion Joint.....	6.55	1.53
03 15 16 00-0041	SF	1" Cork, Premolded Expansion Joint	6.91	1.53
03 15 16 00-0042		Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043	LF	1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.11	0.98
03 15 16 00-0044	LF	1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	2.21	1.02
03 15 16 00-0045	LF	1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	2.32	1.07
03 15 16 00-0046	LF	1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	2.62	1.12
03 15 16 00-0047	LF	1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.16	0.98
03 15 16 00-0048	LF	1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	2.26	1.02
03 15 16 00-0049	LF	1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	2.35	1.07
03 15 16 00-0050	LF	1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	2.54	1.12
03 15 16 00-0051		Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052	LF	1" Zip Strip, Premolded Expansion Joint.....	2.13	0.98
03 15 16 00-0053	LF	1-1/2" Zip Strip, Premolded Expansion Joint.....	2.30	1.02
03 15 16 00-0054	LF	2" Zip Strip, Premolded Expansion Joint.....	2.54	1.12
03 15 16 00-0055		Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056	LF	1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	3.95	0.92
03 15 16 00-0057	LF	1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	4.73	0.92
03 15 16 00-0058		Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059	SF	Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.04	0.69
		>1,250, Deduct	-0.05	
03 15 16 00-0060	SF	Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	0.98	0.69
		>1,250, Deduct	-0.05	
03 15 16 00-0061		Keyed Cold Expansion And Control Joints (03 15 16)		
03 15 16 00-0062		24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)		
03 15 16 00-0063	LF	24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint	5.34	
03 15 16 00-0064	LF	24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint.....	5.44	
03 15 16 00-0065	LF	24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint.....	5.65	
03 15 16 00-0066	LF	24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint.....	6.00	
03 15 16 00-0067	LF	24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint.....	7.57	
03 15 19		Cast-In Concrete Anchors (03 15)		
03 15 19 00-0001		Cast In Place Anchors (03 15 19)		
		Note: For cast in place installations. Includes nut and washer.		
03 15 19 00-0002		J-Type Anchor Bolts (03 15 19 00-0001)		
		See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0003		1/2" And 5/8" Diameter (03 15 19 00-0002)		
03 15 19 00-0004	EA	1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	6.85	
		For Galvanized, Add	0.79	
		For Stainless Steel, Add	5.53	
		For >10 To 50, Deduct	-0.26	
		For >50 To 100, Deduct	-0.57	
		For >100, Deduct	-1.13	
03 15 19 00-0005	EA	1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	7.68	
		For Galvanized, Add	1.01	
		For Stainless Steel, Add	7.04	
		For >10 To 50, Deduct	-0.28	
		For >50 To 100, Deduct	-0.62	
		For >100, Deduct	-1.23	
03 15 19 00-0006	EA	1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	8.92	
		For Galvanized, Add	1.39	
		For Stainless Steel, Add	9.70	
		For >10 To 50, Deduct	-0.31	
		For >50 To 100, Deduct	-0.68	
		For >100, Deduct	-1.37	
03 15 19 00-0007	EA	5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	9.77	
		For Galvanized, Add	1.81	
		For Stainless Steel, Add	12.67	
		For >10 To 50, Deduct	-0.31	
		For >50 To 100, Deduct	-0.71	
		For >100, Deduct	-1.41	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0008	EA		5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 11.53		
			For Galvanized, Add	2.42	
			For Stainless Steel, Add	16.91	
			For >10 To 50, Deduct	-0.34	
			For >50 To 100, Deduct	-0.79	
			For >100, Deduct	-1.58	
03 15 19 00-0009	EA		5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 12.89		
			For Galvanized, Add	2.76	
			For Stainless Steel, Add	19.32	
			For >10 To 50, Deduct	-0.37	
			For >50 To 100, Deduct	-0.88	
			For >100, Deduct	-1.75	
03 15 19 00-0010 3/4" And 7/8" Diameter (03 15 19 00-0002)					
03 15 19 00-0011	EA		3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 12.85		
			For Galvanized, Add	2.74	
			For Stainless Steel, Add	19.18	
			For >10 To 50, Deduct	-0.37	
			For >50 To 100, Deduct	-0.87	
			For >100, Deduct	-1.75	
03 15 19 00-0012	EA		3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 14.58		
			For Galvanized, Add	3.20	
			For Stainless Steel, Add	22.37	
			For >10 To 50, Deduct	-0.41	
			For >50 To 100, Deduct	-0.98	
			For >100, Deduct	-1.96	
03 15 19 00-0013	EA		3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 17.40		
			For Galvanized, Add	4.10	
			For Stainless Steel, Add	28.67	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-1.13	
			For >100, Deduct	-2.25	
03 15 19 00-0014	EA		3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 20.65		
			For Galvanized, Add	5.16	
			For Stainless Steel, Add	36.12	
			For >10 To 50, Deduct	-0.52	
			For >50 To 100, Deduct	-1.29	
			For >100, Deduct	-2.58	
03 15 19 00-0015	EA		7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 16.71		
			For Galvanized, Add	3.75	
			For Stainless Steel, Add	26.25	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-1.11	
			For >100, Deduct	-2.22	
03 15 19 00-0016	EA		7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 19.51		
			For Galvanized, Add	4.49	
			For Stainless Steel, Add	31.43	
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.28	
			For >100, Deduct	-2.56	
03 15 19 00-0017	EA		7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 24.25		
			For Galvanized, Add	5.98	
			For Stainless Steel, Add	41.86	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.53	
			For >100, Deduct	-3.06	
03 15 19 00-0018 1" And 1-1/8" Diameter (03 15 19 00-0002)					
03 15 19 00-0019	EA		1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 20.23		
			For Galvanized, Add	4.85	
			For Stainless Steel, Add	33.95	
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.30	
			For >100, Deduct	-2.59	
03 15 19 00-0020	EA		1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 23.96		
			For Galvanized, Add	5.84	
			For Stainless Steel, Add	40.85	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.52	
			For >100, Deduct	-3.04	
03 15 19 00-0021	EA		1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 29.37		
			For Galvanized, Add	7.32	
			For Stainless Steel, Add	51.21	
			For >10 To 50, Deduct	-0.74	
			For >50 To 100, Deduct	-1.84	
			For >100, Deduct	-3.68	
03 15 19 00-0022	EA		1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 36.31		
			For Galvanized, Add	8.94	
			For Stainless Steel, Add	62.55	
			For >10 To 50, Deduct	-0.92	
			For >50 To 100, Deduct	-2.29	
			For >100, Deduct	-4.58	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0023	EA		1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 23.68		
			For Galvanized, Add	6.06	
			For Stainless Steel, Add	42.42	
			For >10 To 50, Deduct	-0.58	
			For >50 To 100, Deduct	-1.46	
			For >100, Deduct	-2.92	
03 15 19 00-0024	EA		1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 28.08		
			For Galvanized, Add	7.30	
			For Stainless Steel, Add	51.07	
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-1.71	
			For >100, Deduct	-3.43	
03 15 19 00-0025	EA		1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 34.48		
			For Galvanized, Add	9.15	
			For Stainless Steel, Add	64.02	
			For >10 To 50, Deduct	-0.81	
			For >50 To 100, Deduct	-2.08	
			For >100, Deduct	-4.15	
03 15 19 00-0026	EA		1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 42.58		
			For Galvanized, Add	11.17	
			For Stainless Steel, Add	78.19	
			For >10 To 50, Deduct	-1.01	
			For >50 To 100, Deduct	-2.58	
			For >100, Deduct	-5.17	
03 15 19 00-0027			1-1/4" And 1-1/2" Diameter (03 15 19 00-0002)		
03 15 19 00-0028	EA		1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 27.95		
			For Galvanized, Add	7.58	
			For Stainless Steel, Add	53.03	
			For >10 To 50, Deduct	-0.64	
			For >50 To 100, Deduct	-1.66	
			For >100, Deduct	-3.32	
03 15 19 00-0029	EA		1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 33.18		
			For Galvanized, Add	9.12	
			For Stainless Steel, Add	63.84	
			For >10 To 50, Deduct	-0.75	
			For >50 To 100, Deduct	-1.95	
			For >100, Deduct	-3.90	
03 15 19 00-0030	EA		1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 40.79		
			For Galvanized, Add	11.43	
			For Stainless Steel, Add	80.01	
			For >10 To 50, Deduct	-0.90	
			For >50 To 100, Deduct	-2.36	
			For >100, Deduct	-4.73	
03 15 19 00-0031	EA		1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 50.33		
			For Galvanized, Add	13.96	
			For Stainless Steel, Add	97.72	
			For >10 To 50, Deduct	-1.12	
			For >50 To 100, Deduct	-2.94	
			For >100, Deduct	-5.88	
03 15 19 00-0032	EA		1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 33.30		
			For Galvanized, Add	9.47	
			For Stainless Steel, Add	66.29	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.91	
			For >100, Deduct	-3.82	
03 15 19 00-0033	EA		1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 39.55		
			For Galvanized, Add	11.40	
			For Stainless Steel, Add	79.77	
			For >10 To 50, Deduct	-0.84	
			For >50 To 100, Deduct	-2.25	
			For >100, Deduct	-4.49	
03 15 19 00-0034	EA		1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 48.70		
			For Galvanized, Add	14.29	
			For Stainless Steel, Add	100.03	
			For >10 To 50, Deduct	-1.01	
			For >50 To 100, Deduct	-2.73	
			For >100, Deduct	-5.45	
03 15 19 00-0035	EA		1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 60.03		
			For Galvanized, Add	17.46	
			For Stainless Steel, Add	122.19	
			For >10 To 50, Deduct	-1.26	
			For >50 To 100, Deduct	-3.38	
			For >100, Deduct	-6.77	
03 15 19 00-0036			L-Type Anchor Bolts (03 15 19 00-0001)		
			See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0037			3/4" And 7/8" Diameter (03 15 19 00-0036)		



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MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
03 15 19 00-0038	EA	3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	12.38		
		For Galvanized, Add		2.10	
		For Stainless Steel, Add		14.67	
		For >10 To 50, Deduct		-0.41	
		For >50 To 100, Deduct		-0.92	
		For >100, Deduct		-1.85	
03 15 19 00-0039	EA	3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	14.39		
		For Galvanized, Add		2.59	
		For Stainless Steel, Add		18.13	
		For >10 To 50, Deduct		-0.46	
		For >50 To 100, Deduct		-1.05	
		For >100, Deduct		-2.10	
03 15 19 00-0040	EA	3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	16.47		
		For Galvanized, Add		2.97	
		For Stainless Steel, Add		20.79	
		For >10 To 50, Deduct		-0.53	
		For >50 To 100, Deduct		-1.20	
		For >100, Deduct		-2.40	
03 15 19 00-0041	EA	3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	18.45		
		For Galvanized, Add		3.08	
		For Stainless Steel, Add		21.56	
		For >10 To 50, Deduct		-0.61	
		For >50 To 100, Deduct		-1.38	
		For >100, Deduct		-2.77	
03 15 19 00-0042	EA	3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	21.21		
		For Galvanized, Add		3.24	
		For Stainless Steel, Add		22.65	
		For >10 To 50, Deduct		-0.74	
		For >50 To 100, Deduct		-1.64	
		For >100, Deduct		-3.27	
03 15 19 00-0043	EA	7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	14.41		
		For Galvanized, Add		2.60	
		For Stainless Steel, Add		18.20	
		For >10 To 50, Deduct		-0.46	
		For >50 To 100, Deduct		-1.05	
		For >100, Deduct		-2.10	
03 15 19 00-0044	EA	7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	16.59		
		For Galvanized, Add		3.03	
		For Stainless Steel, Add		21.21	
		For >10 To 50, Deduct		-0.53	
		For >50 To 100, Deduct		-1.20	
		For >100, Deduct		-2.41	
03 15 19 00-0045	EA	7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	19.23		
		For Galvanized, Add		3.47	
		For Stainless Steel, Add		24.29	
		For >10 To 50, Deduct		-0.61	
		For >50 To 100, Deduct		-1.40	
		For >100, Deduct		-2.81	
03 15 19 00-0046	EA	7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	21.95		
		For Galvanized, Add		3.61	
		For Stainless Steel, Add		25.24	
		For >10 To 50, Deduct		-0.74	
		For >50 To 100, Deduct		-1.65	
		For >100, Deduct		-3.31	
03 15 19 00-0047	EA	7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	26.01		
		For Galvanized, Add		3.79	
		For Stainless Steel, Add		26.50	
		For >10 To 50, Deduct		-0.92	
		For >50 To 100, Deduct		-2.03	
		For >100, Deduct		-4.07	
03 15 19 00-0048 1" And 1-1/8" Diameter (03 15 19 00-0036)					
03 15 19 00-0049	EA	1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	17.20		
		For Galvanized, Add		3.34	
		For Stainless Steel, Add		23.35	
		For >10 To 50, Deduct		-0.53	
		For >50 To 100, Deduct		-1.22	
		For >100, Deduct		-2.44	
03 15 19 00-0050	EA	1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	19.79		
		For Galvanized, Add		3.75	
		For Stainless Steel, Add		26.25	
		For >10 To 50, Deduct		-0.61	
		For >50 To 100, Deduct		-1.42	
		For >100, Deduct		-2.83	
03 15 19 00-0051	EA	1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	23.12		
		For Galvanized, Add		4.19	
		For Stainless Steel, Add		29.33	
		For >10 To 50, Deduct		-0.74	
		For >50 To 100, Deduct		-1.68	
		For >100, Deduct		-3.37	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0052 EA 1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	24.81	
For Galvanized, Add	4.39	
For Stainless Steel, Add	30.73	
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-1.82	
For >100, Deduct	-3.65	
03 15 19 00-0053 EA 1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	27.63	
For Galvanized, Add	4.60	
For Stainless Steel, Add	32.17	
For >10 To 50, Deduct	-0.92	
For >50 To 100, Deduct	-2.07	
For >100, Deduct	-4.15	
03 15 19 00-0054 EA 1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	31.13	
For Galvanized, Add	5.33	
For Stainless Steel, Add	37.28	
For >10 To 50, Deduct	-1.02	
For >50 To 100, Deduct	-2.31	
For >100, Deduct	-4.63	
03 15 19 00-0055 EA 1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	37.04	
For Galvanized, Add	6.24	
For Stainless Steel, Add	43.65	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-2.77	
For >100, Deduct	-5.54	
03 15 19 00-0056 EA 1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	21.06	
For Galvanized, Add	4.39	
For Stainless Steel, Add	30.70	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.45	
For >100, Deduct	-2.90	
03 15 19 00-0057 EA 1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	24.55	
For Galvanized, Add	4.91	
For Stainless Steel, Add	34.34	
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.72	
For >100, Deduct	-3.44	
03 15 19 00-0058 EA 1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	26.30	
For Galvanized, Add	5.14	
For Stainless Steel, Add	35.95	
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-1.86	
For >100, Deduct	-3.72	
03 15 19 00-0059 1-1/4" And 1-3/8" Diameter (03 15 19 00-0036)		
03 15 19 00-0060 EA 1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	25.34	
For Galvanized, Add	5.30	
For Stainless Steel, Add	37.10	
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.74	
For >100, Deduct	-3.48	
03 15 19 00-0061 EA 1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	30.85	
For Galvanized, Add	6.21	
For Stainless Steel, Add	43.44	
For >10 To 50, Deduct	-0.92	
For >50 To 100, Deduct	-2.15	
For >100, Deduct	-4.31	
03 15 19 00-0062 EA 1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.45	
For Galvanized, Add	7.03	
For Stainless Steel, Add	49.18	
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-2.29	
For >100, Deduct	-4.58	
03 15 19 00-0063 EA 1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	36.35	
For Galvanized, Add	7.94	
For Stainless Steel, Add	55.55	
For >10 To 50, Deduct	-1.02	
For >50 To 100, Deduct	-2.44	
For >100, Deduct	-4.89	
03 15 19 00-0064 EA 1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	40.30	
For Galvanized, Add	8.63	
For Stainless Steel, Add	60.41	
For >10 To 50, Deduct	-1.15	
For >50 To 100, Deduct	-2.74	
For >100, Deduct	-5.47	
03 15 19 00-0065 EA 1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	44.81	
For Galvanized, Add	9.24	
For Stainless Steel, Add	64.68	
For >10 To 50, Deduct	-1.32	
For >50 To 100, Deduct	-3.10	
For >100, Deduct	-6.19	



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		Concrete Forming And Accessories	03 10	
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 15 19 00-0066	EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	50.51		
	For Galvanized, Add	9.90		
	For Stainless Steel, Add	69.27		
	For >10 To 50, Deduct	-1.54		
	For >50 To 100, Deduct	-3.57		
	For >100, Deduct	-7.13		
03 15 19 00-0067	EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	58.74		
	For Galvanized, Add	10.94		
	For Stainless Steel, Add	76.58		
	For >10 To 50, Deduct	-1.84		
	For >50 To 100, Deduct	-4.23		
	For >100, Deduct	-8.47		
03 15 19 00-0068	EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	28.00		
	For Galvanized, Add	6.63		
	For Stainless Steel, Add	46.41		
	For >10 To 50, Deduct	-0.74		
	For >50 To 100, Deduct	-1.81		
	For >100, Deduct	-3.61		
03 15 19 00-0069	EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	33.95		
	For Galvanized, Add	7.76		
	For Stainless Steel, Add	54.29		
	For >10 To 50, Deduct	-0.92		
	For >50 To 100, Deduct	-2.23		
	For >100, Deduct	-4.46		
03 15 19 00-0070	EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	36.97		
	For Galvanized, Add	8.79		
	For Stainless Steel, Add	61.50		
	For >10 To 50, Deduct	-0.97		
	For >50 To 100, Deduct	-2.38		
	For >100, Deduct	-4.76		
03 15 19 00-0071	EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	40.31		
	For Galvanized, Add	9.92		
	For Stainless Steel, Add	69.41		
	For >10 To 50, Deduct	-1.02		
	For >50 To 100, Deduct	-2.54		
	For >100, Deduct	-5.09		
03 15 19 00-0072	EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	44.62		
	For Galvanized, Add	10.79		
	For Stainless Steel, Add	75.53		
	For >10 To 50, Deduct	-1.15		
	For >50 To 100, Deduct	-2.84		
	For >100, Deduct	-5.69		
03 15 19 00-0073	EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	49.44		
	For Galvanized, Add	11.56		
	For Stainless Steel, Add	80.89		
	For >10 To 50, Deduct	-1.32		
	For >50 To 100, Deduct	-3.21		
	For >100, Deduct	-6.42		
03 15 19 00-0074	EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	55.65		
	For Galvanized, Add	12.47		
	For Stainless Steel, Add	87.26		
	For >10 To 50, Deduct	-1.54		
	For >50 To 100, Deduct	-3.70		
	For >100, Deduct	-7.39		
03 15 19 00-0075	EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	64.21		
	For Galvanized, Add	13.68		
	For Stainless Steel, Add	95.73		
	For >10 To 50, Deduct	-1.84		
	For >50 To 100, Deduct	-4.37		
	For >100, Deduct	-8.74		
03 15 19 00-0076	1-1/2", 1-3/4", And 2" Diameter (03 15 19 00-0036)			
03 15 19 00-0077	EA 1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	35.13		
	For Galvanized, Add	9.19		
	For Stainless Steel, Add	64.30		
	For >10 To 50, Deduct	-0.84		
	For >50 To 100, Deduct	-2.14		
	For >100, Deduct	-4.27		
03 15 19 00-0078	EA 1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	38.67		
	For Galvanized, Add	9.64		
	For Stainless Steel, Add	67.45		
	For >10 To 50, Deduct	-0.97		
	For >50 To 100, Deduct	-2.42		
	For >100, Deduct	-4.84		
03 15 19 00-0079	EA 1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	42.89		
	For Galvanized, Add	10.61		
	For Stainless Steel, Add	74.24		
	For >10 To 50, Deduct	-1.08		
	For >50 To 100, Deduct	-2.70		
	For >100, Deduct	-5.40		

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0080	EA	1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	46.21	
		For Galvanized, Add	11.59	
		For Stainless Steel, Add	81.10	
		For >10 To 50, Deduct	-1.15	
		For >50 To 100, Deduct	-2.88	
		For >100, Deduct	-5.77	
03 15 19 00-0081	EA	1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	49.70	
		For Galvanized, Add	12.57	
		For Stainless Steel, Add	87.96	
		For >10 To 50, Deduct	-1.23	
		For >50 To 100, Deduct	-3.09	
		For >100, Deduct	-6.17	
03 15 19 00-0082	EA	1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	55.37	
		For Galvanized, Add	13.51	
		For Stainless Steel, Add	94.57	
		For >10 To 50, Deduct	-1.42	
		For >50 To 100, Deduct	-3.51	
		For >100, Deduct	-7.02	
03 15 19 00-0083	EA	1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	62.74	
		For Galvanized, Add	14.62	
		For Stainless Steel, Add	102.31	
		For >10 To 50, Deduct	-1.68	
		For >50 To 100, Deduct	-4.08	
		For >100, Deduct	-8.16	
03 15 19 00-0084	EA	1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	73.38	
		For Galvanized, Add	16.21	
		For Stainless Steel, Add	113.47	
		For >10 To 50, Deduct	-2.05	
		For >50 To 100, Deduct	-4.91	
		For >100, Deduct	-9.81	
03 15 19 00-0085	EA	1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	46.09	
		For Galvanized, Add	13.83	
		For Stainless Steel, Add	96.78	
		For >10 To 50, Deduct	-0.92	
		For >50 To 100, Deduct	-2.54	
		For >100, Deduct	-5.07	
03 15 19 00-0086	EA	1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	48.73	
		For Galvanized, Add	14.13	
		For Stainless Steel, Add	98.88	
		For >10 To 50, Deduct	-1.02	
		For >50 To 100, Deduct	-2.75	
		For >100, Deduct	-5.51	
03 15 19 00-0087	EA	1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	50.38	
		For Galvanized, Add	14.35	
		For Stainless Steel, Add	100.45	
		For >10 To 50, Deduct	-1.08	
		For >50 To 100, Deduct	-2.89	
		For >100, Deduct	-5.77	
03 15 19 00-0088	EA	1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	56.19	
		For Galvanized, Add	16.58	
		For Stainless Steel, Add	116.03	
		For >10 To 50, Deduct	-1.15	
		For >50 To 100, Deduct	-3.13	
		For >100, Deduct	-6.27	
03 15 19 00-0089	EA	1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	64.60	
		For Galvanized, Add	19.14	
		For Stainless Steel, Add	133.95	
		For >10 To 50, Deduct	-1.32	
		For >50 To 100, Deduct	-3.59	
		For >100, Deduct	-7.18	
03 15 19 00-0090	EA	1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	69.49	
		For Galvanized, Add	19.39	
		For Stainless Steel, Add	135.70	
		For >10 To 50, Deduct	-1.54	
		For >50 To 100, Deduct	-4.04	
		For >100, Deduct	-8.08	
03 15 19 00-0091	EA	1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	78.73	
		For Galvanized, Add	20.94	
		For Stainless Steel, Add	146.55	
		For >10 To 50, Deduct	-1.84	
		For >50 To 100, Deduct	-4.73	
		For >100, Deduct	-9.47	
03 15 19 00-0092	EA	1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	91.16	
		For Galvanized, Add	22.55	
		For Stainless Steel, Add	157.82	
		For >10 To 50, Deduct	-2.30	
		For >50 To 100, Deduct	-5.73	
		For >100, Deduct	-11.47	
03 15 19 00-0093	EA	2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	63.77	
		For Galvanized, Add	21.05	
		For Stainless Steel, Add	147.32	
		For >10 To 50, Deduct	-1.08	
		For >50 To 100, Deduct	-3.22	
		For >100, Deduct	-6.44	



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

03

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
03 15 19 00-0094	EA 2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		70.07	
	For Galvanized, Add		22.75	
	For Stainless Steel, Add		159.25	
	For >10 To 50, Deduct		-1.23	
	For >50 To 100, Deduct		-3.59	
	For >100, Deduct		-7.19	
03 15 19 00-0095	EA 2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		77.94	
	For Galvanized, Add		24.80	
	For Stainless Steel, Add		173.57	
	For >10 To 50, Deduct		-1.42	
	For >50 To 100, Deduct		-4.07	
	For >100, Deduct		-8.15	
03 15 19 00-0096	EA 2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		86.03	
	For Galvanized, Add		26.26	
	For Stainless Steel, Add		183.82	
	For >10 To 50, Deduct		-1.68	
	For >50 To 100, Deduct		-4.66	
	For >100, Deduct		-9.33	
03 15 19 00-0097	EA 2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		93.30	
	For Galvanized, Add		28.22	
	For Stainless Steel, Add		197.54	
	For >10 To 50, Deduct		-1.84	
	For >50 To 100, Deduct		-5.10	
	For >100, Deduct		-10.19	
03 15 19 00-0098	EA 2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		101.22	
	For Galvanized, Add		30.13	
	For Stainless Steel, Add		210.91	
	For >10 To 50, Deduct		-2.05	
	For >50 To 100, Deduct		-5.60	
	For >100, Deduct		-11.21	
03 15 19 00-0099	EA 2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		117.38	
	For Galvanized, Add		32.36	
	For Stainless Steel, Add		226.52	
	For >10 To 50, Deduct		-2.63	
	For >50 To 100, Deduct		-6.88	
	For >100, Deduct		-13.77	
03 15 19 00-0100	EA 2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		123.81	
	For Galvanized, Add		35.58	
	For Stainless Steel, Add		249.03	
	For >10 To 50, Deduct		-2.63	
	For >50 To 100, Deduct		-7.04	
	For >100, Deduct		-14.09	
03 15 19 00-0101	EA 2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		140.53	
	For Galvanized, Add		39.55	
	For Stainless Steel, Add		276.82	
	For >10 To 50, Deduct		-3.07	
	For >50 To 100, Deduct		-8.12	
	For >100, Deduct		-16.24	
03 15 19 00-0102	2-1/2" And 2-3/4" Diameter (03 15 19 00-0036)			
03 15 19 00-0103	EA 2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		115.18	
	For Galvanized, Add		46.75	
	For Stainless Steel, Add		327.25	
	For >10 To 50, Deduct		-1.08	
	For >50 To 100, Deduct		-4.51	
	For >100, Deduct		-9.01	
03 15 19 00-0104	EA 2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		122.30	
	For Galvanized, Add		48.87	
	For Stainless Steel, Add		342.06	
	For >10 To 50, Deduct		-1.23	
	For >50 To 100, Deduct		-4.90	
	For >100, Deduct		-9.80	
03 15 19 00-0105	EA 2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		134.34	
	For Galvanized, Add		53.00	
	For Stainless Steel, Add		370.97	
	For >10 To 50, Deduct		-1.42	
	For >50 To 100, Deduct		-5.48	
	For >100, Deduct		-10.97	
03 15 19 00-0106	EA 2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		145.21	
	For Galvanized, Add		55.85	
	For Stainless Steel, Add		390.95	
	For >10 To 50, Deduct		-1.68	
	For >50 To 100, Deduct		-6.14	
	For >100, Deduct		-12.29	
03 15 19 00-0107	EA 2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt		154.55	
	For Galvanized, Add		58.85	
	For Stainless Steel, Add		411.92	
	For >10 To 50, Deduct		-1.84	
	For >50 To 100, Deduct		-6.63	
	For >100, Deduct		-13.26	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0108	EA	2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	165.35	
		For Galvanized, Add	62.20	
		For Stainless Steel, Add	435.37	
		For >10 To 50, Deduct	-2.05	
		For >50 To 100, Deduct	-7.21	
		For >100, Deduct	-14.41	
03 15 19 00-0109	EA	2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	183.92	
		For Galvanized, Add	65.63	
		For Stainless Steel, Add	459.41	
		For >10 To 50, Deduct	-2.63	
		For >50 To 100, Deduct	-8.55	
		For >100, Deduct	-17.10	
03 15 19 00-0110	EA	2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	128.89	
		For Galvanized, Add	52.93	
		For Stainless Steel, Add	370.48	
		For >10 To 50, Deduct	-1.15	
		For >50 To 100, Deduct	-4.95	
		For >100, Deduct	-9.90	
03 15 19 00-0111	EA	2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	139.56	
		For Galvanized, Add	56.62	
		For Stainless Steel, Add	396.31	
		For >10 To 50, Deduct	-1.32	
		For >50 To 100, Deduct	-5.46	
		For >100, Deduct	-10.93	
03 15 19 00-0112	EA	2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	151.39	
		For Galvanized, Add	60.34	
		For Stainless Steel, Add	422.35	
		For >10 To 50, Deduct	-1.54	
		For >50 To 100, Deduct	-6.09	
		For >100, Deduct	-12.18	
03 15 19 00-0113	EA	2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	164.24	
		For Galvanized, Add	63.69	
		For Stainless Steel, Add	445.83	
		For >10 To 50, Deduct	-1.84	
		For >50 To 100, Deduct	-6.87	
		For >100, Deduct	-13.74	
03 15 19 00-0114	EA	2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	175.67	
		For Galvanized, Add	67.36	
		For Stainless Steel, Add	471.49	
		For >10 To 50, Deduct	-2.05	
		For >50 To 100, Deduct	-7.46	
		For >100, Deduct	-14.93	
03 15 19 00-0115	EA	2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	191.18	
		For Galvanized, Add	72.56	
		For Stainless Steel, Add	507.89	
		For >10 To 50, Deduct	-2.30	
		For >50 To 100, Deduct	-8.23	
		For >100, Deduct	-16.47	
03 15 19 00-0116	EA	2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	214.53	
		For Galvanized, Add	76.55	
		For Stainless Steel, Add	535.82	
		For >10 To 50, Deduct	-3.07	
		For >50 To 100, Deduct	-9.97	
		For >100, Deduct	-19.94	

03 20 Concrete Reinforcing ⁽⁰³⁾

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

03 21 Reinforcement Bars ^(03 20)

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

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

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

03 21 11 00-0002	LF	#3, Grade 40, Beams And Girders, Steel Reinforcement Bar	0.50	
03 21 11 00-0003	LF	#4, Grade 40, Beams And Girders, Steel Reinforcement Bar	0.84	
03 21 11 00-0004	LF	#5, Grade 40, Beams And Girders, Steel Reinforcement Bar	1.25	
03 21 11 00-0005	LF	#6, Grade 40, Beams And Girders, Steel Reinforcement Bar	1.71	
03 21 11 00-0006	LF	#3, Grade 50, Beams And Girders, Steel Reinforcement Bar	0.51	
03 21 11 00-0007	LF	#4, Grade 50, Beams And Girders, Steel Reinforcement Bar	0.86	
03 21 11 00-0008	LF	#5, Grade 50, Beams And Girders, Steel Reinforcement Bar	1.27	
03 21 11 00-0009	LF	#6, Grade 50, Beams And Girders, Steel Reinforcement Bar	1.74	
03 21 11 00-0010	LF	#3, Grade 60, Beams And Girders, Steel Reinforcement Bar	0.53	
03 21 11 00-0011	LF	#4, Grade 60, Beams And Girders, Steel Reinforcement Bar	0.88	
03 21 11 00-0012	LF	#5, Grade 60, Beams And Girders, Steel Reinforcement Bar	1.31	
03 21 11 00-0013	LF	#6, Grade 60, Beams And Girders, Steel Reinforcement Bar	1.80	
03 21 11 00-0014	LF	#7, Grade 60, Beams And Girders, Steel Reinforcement Bar	2.34	
03 21 11 00-0015	LF	#8, Grade 60, Beams And Girders, Steel Reinforcement Bar	2.89	
03 21 11 00-0016	LF	#9, Grade 60, Beams And Girders, Steel Reinforcement Bar	3.53	
03 21 11 00-0017	LF	#10, Grade 60, Beams And Girders, Steel Reinforcement Bar	4.30	
03 21 11 00-0018	LF	#11, Grade 60, Beams And Girders, Steel Reinforcement Bar	5.09	



Concrete		03	CS
Concrete Reinforcing		03 20	
Reinforcement Bars		03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 21 11 00-0019	LF	#14, Grade 60, Beams And Girders, Steel Reinforcement Bar	6.99		
03 21 11 00-0020	LF	#18, Grade 60, Beams And Girders, Steel Reinforcement Bar	11.89		
03 21 11 00-0021	LF	#6, Grade 75, Beams And Girders, Steel Reinforcement Bar	1.85		
03 21 11 00-0022	LF	#7, Grade 75, Beams And Girders, Steel Reinforcement Bar	2.41		
03 21 11 00-0023	LF	#8, Grade 75, Beams And Girders, Steel Reinforcement Bar	2.98		
03 21 11 00-0024	LF	#9, Grade 75, Beams And Girders, Steel Reinforcement Bar	3.66		
03 21 11 00-0025	LF	#10, Grade 75, Beams And Girders, Steel Reinforcement Bar	4.45		
03 21 11 00-0026	LF	#11, Grade 75, Beams And Girders, Steel Reinforcement Bar	5.28		
03 21 11 00-0027	LF	#14, Grade 75, Beams And Girders, Steel Reinforcement Bar	7.27		
03 21 11 00-0028	LF	#18, Grade 75, Beams And Girders, Steel Reinforcement Bar	12.38		
03 21 11 00-0029	LF	#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	0.54		
03 21 11 00-0030	LF	#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	0.90		
03 21 11 00-0031	LF	#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	1.34		
03 21 11 00-0032	LF	#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	1.84		
03 21 11 00-0033	LF	#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	2.39		
03 21 11 00-0034	LF	#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	2.96		
03 21 11 00-0035	LF	#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	3.63		
03 21 11 00-0036	LF	#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	4.41		
03 21 11 00-0037	LF	#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	5.23		
03 21 11 00-0038	LF	#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	7.20		
03 21 11 00-0039	LF	#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	12.26		

03 21 11 00-0040

Columns, Steel Reinforcement Bar (03 21 11)

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

03 21 11 00-0041	LF	#3, Grade 40, Columns, Steel Reinforcement Bar	0.52		
03 21 11 00-0042	LF	#4, Grade 40, Columns, Steel Reinforcement Bar	0.89		
03 21 11 00-0043	LF	#5, Grade 40, Columns, Steel Reinforcement Bar	1.33		
03 21 11 00-0044	LF	#6, Grade 40, Columns, Steel Reinforcement Bar	1.81		
03 21 11 00-0045	LF	#3, Grade 50, Columns, Steel Reinforcement Bar	0.53		
03 21 11 00-0046	LF	#4, Grade 50, Columns, Steel Reinforcement Bar	0.91		
03 21 11 00-0047	LF	#5, Grade 50, Columns, Steel Reinforcement Bar	1.35		
03 21 11 00-0048	LF	#6, Grade 50, Columns, Steel Reinforcement Bar	1.84		
03 21 11 00-0049	LF	#3, Grade 60, Columns, Steel Reinforcement Bar	0.55		
03 21 11 00-0050	LF	#4, Grade 60, Columns, Steel Reinforcement Bar	0.93		
03 21 11 00-0051	LF	#5, Grade 60, Columns, Steel Reinforcement Bar	1.39		
03 21 11 00-0052	LF	#6, Grade 60, Columns, Steel Reinforcement Bar	1.90		
03 21 11 00-0053	LF	#7, Grade 60, Columns, Steel Reinforcement Bar	2.46		
03 21 11 00-0054	LF	#8, Grade 60, Columns, Steel Reinforcement Bar	3.03		
03 21 11 00-0055	LF	#9, Grade 60, Columns, Steel Reinforcement Bar	3.69		
03 21 11 00-0056	LF	#10, Grade 60, Columns, Steel Reinforcement Bar	4.49		
03 21 11 00-0057	LF	#11, Grade 60, Columns, Steel Reinforcement Bar	5.30		
03 21 11 00-0058	LF	#14, Grade 60, Columns, Steel Reinforcement Bar	7.28		
03 21 11 00-0059	LF	#18, Grade 60, Columns, Steel Reinforcement Bar	12.33		
03 21 11 00-0060	LF	#6, Grade 75, Columns, Steel Reinforcement Bar	1.95		
03 21 11 00-0061	LF	#7, Grade 75, Columns, Steel Reinforcement Bar	2.53		
03 21 11 00-0062	LF	#8, Grade 75, Columns, Steel Reinforcement Bar	3.12		
03 21 11 00-0063	LF	#9, Grade 75, Columns, Steel Reinforcement Bar	3.82		
03 21 11 00-0064	LF	#10, Grade 75, Columns, Steel Reinforcement Bar	4.64		
03 21 11 00-0065	LF	#11, Grade 75, Columns, Steel Reinforcement Bar	5.49		
03 21 11 00-0066	LF	#14, Grade 75, Columns, Steel Reinforcement Bar	7.56		
03 21 11 00-0067	LF	#18, Grade 75, Columns, Steel Reinforcement Bar	12.82		
03 21 11 00-0068	LF	#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	0.56		
03 21 11 00-0069	LF	#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	0.95		
03 21 11 00-0070	LF	#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.42		
03 21 11 00-0071	LF	#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.94		
03 21 11 00-0072	LF	#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	2.51		
03 21 11 00-0073	LF	#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	3.10		
03 21 11 00-0074	LF	#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	3.79		
03 21 11 00-0075	LF	#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	4.60		
03 21 11 00-0076	LF	#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	5.44		
03 21 11 00-0077	LF	#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	7.49		
03 21 11 00-0078	LF	#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	12.70		

03 21 11 00-0079

Footings, Steel Reinforcement Bar (03 21 11)

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

03 21 11 00-0080	LF	#3, Grade 40, Footings, Steel Reinforcement Bar	0.45		
03 21 11 00-0081	LF	#4, Grade 40, Footings, Steel Reinforcement Bar	0.76		
03 21 11 00-0082	LF	#5, Grade 40, Footings, Steel Reinforcement Bar	1.15		
03 21 11 00-0083	LF	#6, Grade 40, Footings, Steel Reinforcement Bar	1.56		
03 21 11 00-0084	LF	#3, Grade 50, Footings, Steel Reinforcement Bar	0.46		
03 21 11 00-0085	LF	#4, Grade 50, Footings, Steel Reinforcement Bar	0.78		
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar	1.17		
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar	1.59		
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar	0.48		
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar	0.80		
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar	1.21		
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar	1.65		
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar	2.15		
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar	2.68		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0094 LF #9, Grade 60, Footings, Steel Reinforcement Bar	3.28	
03 21 11 00-0095 LF #10, Grade 60, Footings, Steel Reinforcement Bar	4.00	
03 21 11 00-0096 LF #11, Grade 60, Footings, Steel Reinforcement Bar	4.76	
03 21 11 00-0097 LF #14, Grade 60, Footings, Steel Reinforcement Bar	6.58	
03 21 11 00-0098 LF #18, Grade 60, Footings, Steel Reinforcement Bar	11.22	
03 21 11 00-0099 LF #6, Grade 75, Footings, Steel Reinforcement Bar	1.70	
03 21 11 00-0100 LF #7, Grade 75, Footings, Steel Reinforcement Bar	2.22	
03 21 11 00-0101 LF #8, Grade 75, Footings, Steel Reinforcement Bar	2.77	
03 21 11 00-0102 LF #9, Grade 75, Footings, Steel Reinforcement Bar	3.41	
03 21 11 00-0103 LF #10, Grade 75, Footings, Steel Reinforcement Bar	4.15	
03 21 11 00-0104 LF #11, Grade 75, Footings, Steel Reinforcement Bar	4.95	
03 21 11 00-0105 LF #14, Grade 75, Footings, Steel Reinforcement Bar	6.86	
03 21 11 00-0106 LF #18, Grade 75, Footings, Steel Reinforcement Bar	11.71	
03 21 11 00-0107 LF #3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.49	
03 21 11 00-0108 LF #4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.82	
03 21 11 00-0109 LF #5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.24	
03 21 11 00-0110 LF #6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.69	
03 21 11 00-0111 LF #7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.20	
03 21 11 00-0112 LF #8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.75	
03 21 11 00-0113 LF #9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.38	
03 21 11 00-0114 LF #10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.11	
03 21 11 00-0115 LF #11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.90	
03 21 11 00-0116 LF #14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	6.79	
03 21 11 00-0117 LF #18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	11.59	
03 21 11 00-0118 Slab On Grade, Steel Reinforcement Bar (03 21 11)		
Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0119 LF #3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.43	
03 21 11 00-0120 LF #4, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.74	
03 21 11 00-0121 LF #5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.11	
03 21 11 00-0122 LF #6, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.52	
03 21 11 00-0123 LF #3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.44	
03 21 11 00-0124 LF #4, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.76	
03 21 11 00-0125 LF #5, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.13	
03 21 11 00-0126 LF #6, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.55	
03 21 11 00-0127 LF #3, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.46	
03 21 11 00-0128 LF #4, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.78	
03 21 11 00-0129 LF #5, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.17	
03 21 11 00-0130 LF #6, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.61	
03 21 11 00-0131 LF #7, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.09	
03 21 11 00-0132 LF #8, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.60	
03 21 11 00-0133 LF #9, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.19	
03 21 11 00-0134 LF #10, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.91	
03 21 11 00-0135 LF #11, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.65	
03 21 11 00-0136 LF #14, Grade 60, Slab On Grade, Steel Reinforcement Bar	6.43	
03 21 11 00-0137 LF #18, Grade 60, Slab On Grade, Steel Reinforcement Bar	10.99	
03 21 11 00-0138 LF #6, Grade 75, Slab On Grade, Steel Reinforcement Bar	1.66	
03 21 11 00-0139 LF #7, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.16	
03 21 11 00-0140 LF #8, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.69	
03 21 11 00-0141 LF #9, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.32	
03 21 11 00-0142 LF #10, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.06	
03 21 11 00-0143 LF #11, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.84	
03 21 11 00-0144 LF #14, Grade 75, Slab On Grade, Steel Reinforcement Bar	6.71	
03 21 11 00-0145 LF #18, Grade 75, Slab On Grade, Steel Reinforcement Bar	11.48	
03 21 11 00-0146 LF #3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.47	
03 21 11 00-0147 LF #4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.80	
03 21 11 00-0148 LF #5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.20	
03 21 11 00-0149 LF #6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.65	
03 21 11 00-0150 LF #7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.14	
03 21 11 00-0151 LF #8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.67	
03 21 11 00-0152 LF #9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.29	
03 21 11 00-0153 LF #10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.02	
03 21 11 00-0154 LF #11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.79	
03 21 11 00-0155 LF #14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	6.64	
03 21 11 00-0156 LF #18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	11.36	
03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar (03 21 11)		
Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0158 LF #3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.40	
03 21 11 00-0159 LF #4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.68	
03 21 11 00-0160 LF #5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.03	
03 21 11 00-0161 LF #6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.42	
03 21 11 00-0162 LF #3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.41	
03 21 11 00-0163 LF #4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.70	
03 21 11 00-0164 LF #5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.05	
03 21 11 00-0165 LF #6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.45	
03 21 11 00-0166 LF #3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.43	
03 21 11 00-0167 LF #4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.72	
03 21 11 00-0168 LF #5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.09	



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0169	LF	#6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.51		
03 21 11 00-0170	LF	#7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.97		
03 21 11 00-0171	LF	#8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.45		
03 21 11 00-0172	LF	#9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.02		
03 21 11 00-0173	LF	#10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.72		
03 21 11 00-0174	LF	#11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.43		
03 21 11 00-0175	LF	#14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	6.15		
03 21 11 00-0176	LF	#18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	10.55		
03 21 11 00-0177	LF	#6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	1.56		
03 21 11 00-0178	LF	#7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.04		
03 21 11 00-0179	LF	#8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.54		
03 21 11 00-0180	LF	#9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.15		
03 21 11 00-0181	LF	#10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.87		
03 21 11 00-0182	LF	#11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.62		
03 21 11 00-0183	LF	#14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	6.43		
03 21 11 00-0184	LF	#18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	11.04		
03 21 11 00-0185	LF	#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.44		
03 21 11 00-0186	LF	#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.74		
03 21 11 00-0187	LF	#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.12		
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.55		
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.02		
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.52		
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	3.12		
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	3.83		
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	4.57		
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	6.36		
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	10.92		
03 21 11 00-0196 Walls, Steel Reinforcement Bar (03 21 11)					
Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.					
03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar	0.38		
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar	0.66		
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar	0.99		
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar	1.37		
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar	0.39		
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar	0.68		
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar	1.01		
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar	1.40		
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar	0.41		
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar	0.70		
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar	1.05		
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar	1.46		
03 21 11 00-0209	LF	#7, Grade 60, Walls, Steel Reinforcement Bar	1.91		
03 21 11 00-0210	LF	#8, Grade 60, Walls, Steel Reinforcement Bar	2.38		
03 21 11 00-0211	LF	#9, Grade 60, Walls, Steel Reinforcement Bar	2.94		
03 21 11 00-0212	LF	#10, Grade 60, Walls, Steel Reinforcement Bar	3.62		
03 21 11 00-0213	LF	#11, Grade 60, Walls, Steel Reinforcement Bar	4.33		
03 21 11 00-0214	LF	#14, Grade 60, Walls, Steel Reinforcement Bar	6.01		
03 21 11 00-0215	LF	#18, Grade 60, Walls, Steel Reinforcement Bar	10.33		
03 21 11 00-0216	LF	#6, Grade 75, Walls, Steel Reinforcement Bar	1.51		
03 21 11 00-0217	LF	#7, Grade 75, Walls, Steel Reinforcement Bar	1.98		
03 21 11 00-0218	LF	#8, Grade 75, Walls, Steel Reinforcement Bar	2.47		
03 21 11 00-0219	LF	#9, Grade 75, Walls, Steel Reinforcement Bar	3.07		
03 21 11 00-0220	LF	#10, Grade 75, Walls, Steel Reinforcement Bar	3.77		
03 21 11 00-0221	LF	#11, Grade 75, Walls, Steel Reinforcement Bar	4.52		
03 21 11 00-0222	LF	#14, Grade 75, Walls, Steel Reinforcement Bar	6.29		
03 21 11 00-0223	LF	#18, Grade 75, Walls, Steel Reinforcement Bar	10.82		
03 21 11 00-0224	LF	#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.42		
03 21 11 00-0225	LF	#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.72		
03 21 11 00-0226	LF	#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.08		
03 21 11 00-0227	LF	#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.50		
03 21 11 00-0228	LF	#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.96		
03 21 11 00-0229	LF	#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.45		
03 21 11 00-0230	LF	#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.04		
03 21 11 00-0231	LF	#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.73		
03 21 11 00-0232	LF	#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.47		
03 21 11 00-0233	LF	#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	6.22		
03 21 11 00-0234	LF	#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	10.70		
03 21 11 00-0235 Mechanical Joint Connection (03 21 11)					
03 21 11 00-0236 Thermal Type Mechanical Joint Connection (03 21 11 00-0235)					
03 21 11 00-0237	EA	Thermal Type Mechanical Joint Connection, Add Per Splice	160.31		
03 21 11 00-0238 Screwed Type Mechanical Joint Connection (03 21 11 00-0235)					
03 21 11 00-0239	EA	Screwed Type Mechanical Joint Connection, Add Per Splice	88.31		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 21 11 00-0240	Deformed Straight Dowels (03 21 11)			
	Note: Excludes drilling. See CSI section 02 41 19 13-0266 for drilling in concrete.			
03 21 11 00-0241	EA 3/8" Diameter x 24" Long, Deformed Straight Dowel	2.18		
	For Up To 12" Length, Deduct	-0.22		
	For >12" To <24" Length, Deduct	-0.11		
03 21 11 00-0242	EA 1/2" Diameter x 24" Long, Deformed Straight Dowel	2.59		
	For Up To 12" Length, Deduct	-0.30		
	For >12" To <24" Length, Deduct	-0.15		
03 21 11 00-0243	EA 5/8" Diameter x 24" Long, Deformed Straight Dowel	3.11		
	For Up To 12" Length, Deduct	-0.46		
	For >12" To <24" Length, Deduct	-0.23		
03 21 11 00-0244	EA 3/4" Diameter x 24" Long, Deformed Straight Dowel	3.73		
	For Up To 12" Length, Deduct	-0.67		
	For >12" To <24" Length, Deduct	-0.33		
03 21 11 00-0245	EA 7/8" Diameter x 24" Long, Deformed Straight Dowel	4.33		
	For Up To 12" Length, Deduct	-0.93		
	For >12" To <24" Length, Deduct	-0.47		
03 21 11 00-0246	EA 1" Diameter x 24" Long, Deformed Straight Dowel	5.45		
	For Up To 12" Length, Deduct	-1.19		
	For >12" To <24" Length, Deduct	-0.60		
03 21 11 00-0247	EA 1-1/8" Diameter x 24" Long, Deformed Straight Dowel	6.40		
	For Up To 12" Length, Deduct	-1.47		
	For >12" To <24" Length, Deduct	-0.74		
03 21 11 00-0248	EA 1-1/4" Diameter x 24" Long, Deformed Straight Dowel	7.78		
	For Up To 12" Length, Deduct	-1.92		
	For >12" To <24" Length, Deduct	-0.96		
03 21 11 00-0249	EA 1-3/8" Diameter x 24" Long, Deformed Straight Dowel	9.18		
	For Up To 12" Length, Deduct	-2.38		
	For >12" To <24" Length, Deduct	-1.19		
03 21 11 00-0250	Spirals, Reinforcing Steel (03 21 11)			
03 21 11 00-0251	TON Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	3,684.74		
	For Grade 75, Add	175.35		
03 21 11 00-0252	TON >15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel	3,652.41		
	For Grade 75, Add	175.35		
03 21 11 00-0253	TON >24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel	3,652.41		
	For Grade 75, Add	175.35		
03 21 11 00-0254	TON >36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel	3,587.44		
	For Grade 75, Add	175.35		
03 21 11 00-0255	TON >48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel	3,532.92		
	For Grade 75, Add	175.35		
03 21 11 00-0256	TON >64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel	3,536.50		
	For Grade 75, Add	179.66		
03 21 11 00-0257	TON >84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel	3,490.86		
	For Grade 75, Add	179.66		
03 21 11 00-0258	Accessories For Reinforcing Steel (03 21 11)			
03 21 11 00-0259	Reinforcing Steel Weld Splice (03 21 11 00-0258)			
03 21 11 00-0260	EA Up To #6 Reinforcing Steel Weld Splice	32.59		
03 21 11 00-0261	EA >#6 Reinforcing Steel Weld Splice	47.16		
03 21 11 00-0262	Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0258)			
03 21 11 00-0263	EA Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint	24.35		
03 21 11 00-0264	EA #5 Reinforcing Steel, Sleeve And Wedge Splice Joint	35.74		
03 21 11 00-0265	EA #6 Reinforcing Steel, Sleeve And Wedge Splice Joint	51.75		
03 21 13	Galvanized Reinforcement Steel Bars (03 21)			
03 21 13 00-0001	Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13)			
	Note: ASTM A-767 Hot Dipped Galvanized Steel.			
03 21 13 00-0002	LF #3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	0.60		
03 21 13 00-0003	LF #4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.01		
03 21 13 00-0004	LF #5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.50		
03 21 13 00-0005	LF #6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.08		
03 21 13 00-0006	LF #3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	0.60		
03 21 13 00-0007	LF #4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.03		
03 21 13 00-0008	LF #5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.53		
03 21 13 00-0009	LF #6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.12		
03 21 13 00-0010	LF #3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	0.62		
03 21 13 00-0011	LF #4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.05		
03 21 13 00-0012	LF #5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.57		
03 21 13 00-0013	LF #6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.17		
03 21 13 00-0014	LF #7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.84		
03 21 13 00-0015	LF #8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.55		
03 21 13 00-0016	LF #9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	4.38		
03 21 13 00-0017	LF #10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	5.37		
03 21 13 00-0018	LF #11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	6.41		
03 21 13 00-0019	LF #14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	8.89		



Concrete		03	CS
Concrete Reinforcing		03 20	
Reinforcement Bars		03 21	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	15.26		
03 21 13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	2.23		
03 21 13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	2.92		
03 21 13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.65		
03 21 13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.50		
03 21 13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.52		
03 21 13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.60		
03 21 13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	9.17		
03 21 13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	15.76		
03 21 13 00-0029 Columns, Galvanized Steel Reinforcement Bar (03 21 13)					
Note: ASTM A-767 Hot Dipped Galvanized Steel.					
03 21 13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	0.62		
03 21 13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.06		
03 21 13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.58		
03 21 13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.18		
03 21 13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	0.62		
03 21 13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.08		
03 21 13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.61		
03 21 13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.22		
03 21 13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	0.64		
03 21 13 00-0039	LF	#4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.10		
03 21 13 00-0040	LF	#5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.65		
03 21 13 00-0041	LF	#6, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.27		
03 21 13 00-0042	LF	#7, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.96		
03 21 13 00-0043	LF	#8, Grade 60, Columns, Galvanized Steel Reinforcement Bar	3.69		
03 21 13 00-0044	LF	#9, Grade 60, Columns, Galvanized Steel Reinforcement Bar	4.54		
03 21 13 00-0045	LF	#10, Grade 60, Columns, Galvanized Steel Reinforcement Bar	5.56		
03 21 13 00-0046	LF	#11, Grade 60, Columns, Galvanized Steel Reinforcement Bar	6.62		
03 21 13 00-0047	LF	#14, Grade 60, Columns, Galvanized Steel Reinforcement Bar	9.18		
03 21 13 00-0048	LF	#18, Grade 60, Columns, Galvanized Steel Reinforcement Bar	15.70		
03 21 13 00-0049	LF	#6, Grade 75, Columns, Galvanized Steel Reinforcement Bar	2.33		
03 21 13 00-0050	LF	#7, Grade 75, Columns, Galvanized Steel Reinforcement Bar	3.04		
03 21 13 00-0051	LF	#8, Grade 75, Columns, Galvanized Steel Reinforcement Bar	3.79		
03 21 13 00-0052	LF	#9, Grade 75, Columns, Galvanized Steel Reinforcement Bar	4.66		
03 21 13 00-0053	LF	#10, Grade 75, Columns, Galvanized Steel Reinforcement Bar	5.71		
03 21 13 00-0054	LF	#11, Grade 75, Columns, Galvanized Steel Reinforcement Bar	6.81		
03 21 13 00-0055	LF	#14, Grade 75, Columns, Galvanized Steel Reinforcement Bar	9.46		
03 21 13 00-0056	LF	#18, Grade 75, Columns, Galvanized Steel Reinforcement Bar	16.20		
03 21 13 00-0057 Footings, Galvanized Steel Reinforcement Bar (03 21 13)					
Note: ASTM A-767 Hot Dipped Galvanized Steel.					
03 21 13 00-0058	LF	#3, Grade 40, Footings, Galvanized Steel Reinforcement Bar	0.55		
03 21 13 00-0059	LF	#4, Grade 40, Footings, Galvanized Steel Reinforcement Bar	0.93		
03 21 13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.40		
03 21 13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.93		
03 21 13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.55		
03 21 13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.95		
03 21 13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.43		
03 21 13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.97		
03 21 13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.57		
03 21 13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.97		
03 21 13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.47		
03 21 13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.02		
03 21 13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.65		
03 21 13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.34		
03 21 13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	4.13		
03 21 13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	5.07		
03 21 13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	6.08		
03 21 13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	8.48		
03 21 13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	14.59		
03 21 13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	2.08		
03 21 13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	2.73		
03 21 13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	3.44		
03 21 13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.25		
03 21 13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	5.22		
03 21 13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	6.27		
03 21 13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	8.76		
03 21 13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	15.09		
03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)					
Note: ASTM A-767 Hot Dipped Galvanized Steel.					
03 21 13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.53		
03 21 13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.91		
03 21 13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.36		
03 21 13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.89		
03 21 13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.53		
03 21 13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.93		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.39
03 21 13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.93
03 21 13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.55
03 21 13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.95
03 21 13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.43
03 21 13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.98
03 21 13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.59
03 21 13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.26
03 21 13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.04
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.98
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	5.97
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	8.33
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	14.36
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	2.04
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	2.67
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.36
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	4.16
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	5.13
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	6.16
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	8.61
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	14.86

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

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.50
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.85
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.28
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.79
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.50
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.87
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.31
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.83
03 21 13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.52
03 21 13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.89
03 21 13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.35
03 21 13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.88
03 21 13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.47
03 21 13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.11
03 21 13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.87
03 21 13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.79
03 21 13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.75
03 21 13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.05
03 21 13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	13.92
03 21 13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.94
03 21 13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.55
03 21 13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.21
03 21 13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.99
03 21 13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.94
03 21 13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.94
03 21 13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.33
03 21 13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	14.42

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

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.48
03 21 13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.83
03 21 13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.24
03 21 13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.74
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.48
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.85
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.27
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.78
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.50
03 21 13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.87
03 21 13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.31
03 21 13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.83
03 21 13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.41
03 21 13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.04
03 21 13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.79
03 21 13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	4.69
03 21 13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	5.65
03 21 13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	7.91
03 21 13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	13.70
03 21 13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	1.89
03 21 13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.49
03 21 13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.14
03 21 13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.91
03 21 13 00-0165	LF	#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.84
03 21 13 00-0166	LF	#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.84



Concrete		03	03
Concrete Reinforcing		03 20	
Reinforcement Bars		03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 21 13 00-0167	LF	#14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	8.19		
03 21 13 00-0168	LF	#18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	14.20		

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

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002	LF	#3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.59		
03 21 16 00-0003	LF	#4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.99		
03 21 16 00-0004	LF	#5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.48		
03 21 16 00-0005	LF	#6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.04		
03 21 16 00-0006	LF	#3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.59		
03 21 16 00-0007	LF	#4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.01		
03 21 16 00-0008	LF	#5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.50		
03 21 16 00-0009	LF	#6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.08		
03 21 16 00-0010	LF	#3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.61		
03 21 16 00-0011	LF	#4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.03		
03 21 16 00-0012	LF	#5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.54		
03 21 16 00-0013	LF	#6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.13		
03 21 16 00-0014	LF	#7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.79		
03 21 16 00-0015	LF	#8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.48		
03 21 16 00-0016	LF	#9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.29		
03 21 16 00-0017	LF	#10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.25		
03 21 16 00-0018	LF	#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.26		
03 21 16 00-0019	LF	#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.69		
03 21 16 00-0020	LF	#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	14.90		
03 21 16 00-0021	LF	#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.19		
03 21 16 00-0022	LF	#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.86		
03 21 16 00-0023	LF	#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.57		
03 21 16 00-0024	LF	#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.41		
03 21 16 00-0025	LF	#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.41		
03 21 16 00-0026	LF	#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.46		
03 21 16 00-0027	LF	#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.96		
03 21 16 00-0028	LF	#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	15.39		

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0030	LF	#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	0.61		
03 21 16 00-0031	LF	#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.04		
03 21 16 00-0032	LF	#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.56		
03 21 16 00-0033	LF	#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.14		
03 21 16 00-0034	LF	#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	0.61		
03 21 16 00-0035	LF	#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.06		
03 21 16 00-0036	LF	#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.58		
03 21 16 00-0037	LF	#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.18		
03 21 16 00-0038	LF	#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	0.63		
03 21 16 00-0039	LF	#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.08		
03 21 16 00-0040	LF	#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.62		
03 21 16 00-0041	LF	#6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.23		
03 21 16 00-0042	LF	#7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.91		
03 21 16 00-0043	LF	#8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	3.62		
03 21 16 00-0044	LF	#9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	4.45		
03 21 16 00-0045	LF	#10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	5.44		
03 21 16 00-0046	LF	#11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	6.47		
03 21 16 00-0047	LF	#14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	8.98		
03 21 16 00-0048	LF	#18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	15.34		
03 21 16 00-0049	LF	#6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	2.29		
03 21 16 00-0050	LF	#7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	2.98		
03 21 16 00-0051	LF	#8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	3.71		
03 21 16 00-0052	LF	#9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	4.57		
03 21 16 00-0053	LF	#10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	5.60		
03 21 16 00-0054	LF	#11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	6.67		
03 21 16 00-0055	LF	#14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	9.25		
03 21 16 00-0056	LF	#18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	15.83		

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0058	LF	#3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.54		
03 21 16 00-0059	LF	#4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.91		
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.38		
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.89		
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	0.54		
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	0.93		
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.40		
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.93		
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	0.56		
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	0.95		
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.44		
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.98		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	2.60	
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	3.27	
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	4.04	
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	4.95	
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	5.93	
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	8.28	
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	14.23	
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	2.04	
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	2.67	
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	3.36	
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	4.16	
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	5.11	
03 21 16 00-0082	LF	#11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	6.13	
03 21 16 00-0083	LF	#14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	8.55	
03 21 16 00-0084	LF	#18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	14.72	

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0086	LF	#3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.52	
03 21 16 00-0087	LF	#4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.89	
03 21 16 00-0088	LF	#5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.34	
03 21 16 00-0089	LF	#6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.85	
03 21 16 00-0090	LF	#3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.52	
03 21 16 00-0091	LF	#4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.91	
03 21 16 00-0092	LF	#5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.36	
03 21 16 00-0093	LF	#6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.89	
03 21 16 00-0094	LF	#3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.54	
03 21 16 00-0095	LF	#4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	0.93	
03 21 16 00-0096	LF	#5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.40	
03 21 16 00-0097	LF	#6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	1.94	
03 21 16 00-0098	LF	#7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.54	
03 21 16 00-0099	LF	#8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.19	
03 21 16 00-0100	LF	#9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.95	
03 21 16 00-0101	LF	#10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.86	
03 21 16 00-0102	LF	#11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.82	
03 21 16 00-0103	LF	#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	8.13	
03 21 16 00-0104	LF	#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	14.00	
03 21 16 00-0105	LF	#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.00	
03 21 16 00-0106	LF	#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	2.61	
03 21 16 00-0107	LF	#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	3.28	
03 21 16 00-0108	LF	#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	4.07	
03 21 16 00-0109	LF	#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	5.02	
03 21 16 00-0110	LF	#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	6.02	
03 21 16 00-0111	LF	#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	8.40	
03 21 16 00-0112	LF	#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	14.49	

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0114	LF	#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.49	
03 21 16 00-0115	LF	#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.83	
03 21 16 00-0116	LF	#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.26	
03 21 16 00-0117	LF	#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.75	
03 21 16 00-0118	LF	#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.49	
03 21 16 00-0119	LF	#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.85	
03 21 16 00-0120	LF	#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.28	
03 21 16 00-0121	LF	#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.79	
03 21 16 00-0122	LF	#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.51	
03 21 16 00-0123	LF	#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	0.87	
03 21 16 00-0124	LF	#5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.32	
03 21 16 00-0125	LF	#6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.84	
03 21 16 00-0126	LF	#7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.42	
03 21 16 00-0127	LF	#8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	3.04	
03 21 16 00-0128	LF	#9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	3.78	
03 21 16 00-0129	LF	#10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	4.67	
03 21 16 00-0130	LF	#11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	5.60	
03 21 16 00-0131	LF	#14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	7.85	
03 21 16 00-0132	LF	#18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	13.56	
03 21 16 00-0133	LF	#6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	1.90	
03 21 16 00-0134	LF	#7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.49	
03 21 16 00-0135	LF	#8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	3.13	
03 21 16 00-0136	LF	#9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	3.90	
03 21 16 00-0137	LF	#10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	4.83	
03 21 16 00-0138	LF	#11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	5.80	
03 21 16 00-0139	LF	#14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	8.12	
03 21 16 00-0140	LF	#18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	14.05	

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

Note: ASTM A-775 Epoxy Coated Steel.



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0142	LF		#3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.47	
03 21 16 00-0143	LF		#4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.81	
03 21 16 00-0144	LF		#5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.22	
03 21 16 00-0145	LF		#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.70	
03 21 16 00-0146	LF		#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.47	
03 21 16 00-0147	LF		#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.83	
03 21 16 00-0148	LF		#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.24	
03 21 16 00-0149	LF		#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.74	
03 21 16 00-0150	LF		#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.49	
03 21 16 00-0151	LF		#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.85	
03 21 16 00-0152	LF		#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.28	
03 21 16 00-0153	LF		#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.79	
03 21 16 00-0154	LF		#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.36	
03 21 16 00-0155	LF		#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.97	
03 21 16 00-0156	LF		#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.70	
03 21 16 00-0157	LF		#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.57	
03 21 16 00-0158	LF		#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.50	
03 21 16 00-0159	LF		#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.71	
03 21 16 00-0160	LF		#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	13.34	
03 21 16 00-0161	LF		#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.85	
03 21 16 00-0162	LF		#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.43	
03 21 16 00-0163	LF		#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.06	
03 21 16 00-0164	LF		#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.82	
03 21 16 00-0165	LF		#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.73	
03 21 16 00-0166	LF		#11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.70	
03 21 16 00-0167	LF		#14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.98	
03 21 16 00-0168	LF		#18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	13.83	
03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels (03 21 16)					
Note: Excludes drilling. See CSI section 02 41 19 13-0266 for drilling in concrete.					
03 21 16 00-0170	EA		3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	2.55	
			For Up To 12" Length, Deduct	-0.31	
			For >12" To <24" Length, Deduct	-0.16	
03 21 16 00-0171	EA		1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	3.03	
			For Up To 12" Length, Deduct	-0.47	
			For >12" To <24" Length, Deduct	-0.24	
03 21 16 00-0172	EA		5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	3.71	
			For Up To 12" Length, Deduct	-0.70	
			For >12" To <24" Length, Deduct	-0.35	
03 21 16 00-0173	EA		3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	4.40	
			For Up To 12" Length, Deduct	-0.94	
			For >12" To <24" Length, Deduct	-0.47	
03 21 16 00-0174	EA		7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.43	
			For Up To 12" Length, Deduct	-1.28	
			For >12" To <24" Length, Deduct	-0.64	
03 21 16 00-0175	EA		1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	6.39	
			For Up To 12" Length, Deduct	-1.57	
			For >12" To <24" Length, Deduct	-0.78	
03 21 16 00-0176	EA		1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	7.60	
			For Up To 12" Length, Deduct	-1.90	
			For >12" To <24" Length, Deduct	-0.95	
03 21 16 00-0177	EA		1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	9.12	
			For Up To 12" Length, Deduct	-2.30	
			For >12" To <24" Length, Deduct	-1.15	
03 22 Fabric And Grid Reinforcing (03 20)					
03 22 11 Plain Welded Wire Fabric Reinforcing (03 22)					
Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.					
03 22 11 00-0001 Welded Wire Fabric Placed In Floors Or Slabs Under 5 Tons (03 22 11)					
Note: Includes bar chairs. Under 5 tons. ASTM A-185					
03 22 11 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.61	
			For >5 Ton, Deduct	-0.09	
03 22 11 00-0003	SF		6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	0.70	
			For >5 Ton, Deduct	-0.11	
03 22 11 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	0.78	
			For >5 Ton, Deduct	-0.12	
03 22 11 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	0.92	
			For >5 Ton, Deduct	-0.13	
03 22 11 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.73	
			For >5 Ton, Deduct	-0.11	
03 22 11 00-0007	SF		4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	0.81	
			For >5 Ton, Deduct	-0.12	
03 22 11 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.00	
			For >5 Ton, Deduct	-0.14	
03 22 11 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.15	
			For >5 Ton, Deduct	-0.16	
03 22 11 00-0010	SF		2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9)	1.06	
			For >5 Ton, Deduct	-0.14	

03 Concrete**03 20 Concrete Reinforcing****03 22 Fabric And Grid Reinforcing**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)**03 22 13 00-0001 Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13)**

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0002	SF	6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.67
		For >5 Ton, Deduct	-0.10
03 22 13 00-0003	SF	6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.77
		For >5 Ton, Deduct	-0.11
03 22 13 00-0004	SF	6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	0.87
		For >5 Ton, Deduct	-0.13
03 22 13 00-0005	SF	6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.05
		For >5 Ton, Deduct	-0.15
03 22 13 00-0006	SF	4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.81
		For >5 Ton, Deduct	-0.12
03 22 13 00-0007	SF	4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.91
		For >5 Ton, Deduct	-0.13
03 22 13 00-0008	SF	4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.16
		For >5 Ton, Deduct	-0.16
03 22 13 00-0009	SF	4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.35
		For >5 Ton, Deduct	-0.18

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

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0011	SF	2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5).....	2.43
		For >5 Ton, Deduct	-0.38

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

Note: Includes bar chairs. Under 5 tons.

03 22 16 00-0002	SF	6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.66
		For >5 Ton, Deduct	-0.10
03 22 16 00-0003	SF	6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.76
		For >5 Ton, Deduct	-0.11
03 22 16 00-0004	SF	6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	0.86
		For >5 Ton, Deduct	-0.13
03 22 16 00-0005	SF	6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.03
		For >5 Ton, Deduct	-0.15
03 22 16 00-0006	SF	4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.80
		For >5 Ton, Deduct	-0.12
03 22 16 00-0007	SF	4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.89
		For >5 Ton, Deduct	-0.13
03 22 16 00-0008	SF	4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.14
		For >5 Ton, Deduct	-0.16
03 22 16 00-0009	SF	4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.32
		For >5 Ton, Deduct	-0.18

03 30 Cast-In-Place Concrete (03)

See CSI section 01 74 19 00-0048 for hauling over 15 miles.

03 31 Structural Concrete (03 30)**03 31 13 Heavyweight Structural Concrete (03 31)**

Note: Includes delivery and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 00 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.

03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)**03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)**

Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 00 00-0001 for color additive alternative, 03 31 13 00-0088 for concrete pumping equipment.



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0003	SF		4" 3,000 PSI Slab On Grade Concrete Slabs Assembly	6.77	
			For 2,000 PSI Concrete, Deduct	-0.20	
			For 2,500 PSI Concrete, Deduct	-0.10	
			For 3,500 PSI Concrete, Add	0.07	
			For 4,000 PSI Concrete, Add	0.24	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	2.56	
			For >500 To 1,000, Add	1.77	
			For >1,000 To 2,000, Add	0.98	
			For >2,000 To 5,000, Add	0.49	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000 To 35,000, Deduct	-0.36	
			For >35,000 To 50,000, Deduct	-0.53	
			For >50,000 To 70,000, Deduct	-0.70	
			For >70,000, Deduct	-0.87	
03 31 13 00-0004	SF		5" 3,000 PSI Slab On Grade Concrete Slabs Assembly	7.43	
			For 2,000 PSI Concrete, Deduct	-0.23	
			For 2,500 PSI Concrete, Deduct	-0.12	
			For 3,500 PSI Concrete, Add	0.08	
			For 4,000 PSI Concrete, Add	0.27	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	2.75	
			For >500 To 1,000, Add	1.90	
			For >1,000 To 2,000, Add	1.06	
			For >2,000 To 5,000, Add	0.53	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000 To 35,000, Deduct	-0.40	
			For >35,000 To 50,000, Deduct	-0.59	
			For >50,000 To 70,000, Deduct	-0.77	
			For >70,000, Deduct	-0.96	
03 31 13 00-0005	SF		6" 3,000 PSI Slab On Grade Concrete Slabs Assembly	8.36	
			For 2,000 PSI Concrete, Deduct	-0.27	
			For 2,500 PSI Concrete, Deduct	-0.14	
			For 3,500 PSI Concrete, Add	0.10	
			For 4,000 PSI Concrete, Add	0.32	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.02	
			For >500 To 1,000, Add	2.09	
			For >1,000 To 2,000, Add	1.17	
			For >2,000 To 5,000, Add	0.59	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000 To 35,000, Deduct	-0.46	
			For >35,000 To 50,000, Deduct	-0.67	
			For >50,000 To 70,000, Deduct	-0.88	
			For >70,000, Deduct	-1.09	
03 31 13 00-0006	SF		7" 3,000 PSI Slab On Grade Concrete Slabs Assembly	9.25	
			For 2,000 PSI Concrete, Deduct	-0.31	
			For 2,500 PSI Concrete, Deduct	-0.16	
			For 3,500 PSI Concrete, Add	0.11	
			For 4,000 PSI Concrete, Add	0.36	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.25	
			For >500 To 1,000, Add	2.26	
			For >1,000 To 2,000, Add	1.28	
			For >2,000 To 5,000, Add	0.64	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000 To 35,000, Deduct	-0.52	
			For >35,000 To 50,000, Deduct	-0.75	
			For >50,000 To 70,000, Deduct	-0.98	
			For >70,000, Deduct	-1.21	
03 31 13 00-0007	SF		8" 3,000 PSI Slab On Grade Concrete Slabs Assembly	10.00	
			For 2,000 PSI Concrete, Deduct	-0.34	
			For 2,500 PSI Concrete, Deduct	-0.17	
			For 3,500 PSI Concrete, Add	0.12	
			For 4,000 PSI Concrete, Add	0.40	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.46	
			For >500 To 1,000, Add	2.41	
			For >1,000 To 2,000, Add	1.36	
			For >2,000 To 5,000, Add	0.68	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000 To 35,000, Deduct	-0.57	
			For >35,000 To 50,000, Deduct	-0.82	
			For >50,000 To 70,000, Deduct	-1.07	
			For >70,000, Deduct	-1.32	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0008 SF 10" 3,000 PSI Slab On Grade Concrete Slabs Assembly	11.96	
For 2,000 PSI Concrete, Deduct	-0.43	
For 2,500 PSI Concrete, Deduct	-0.22	
For 3,500 PSI Concrete, Add	0.15	
For 4,000 PSI Concrete, Add	0.51	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	3.96	
For >500 To 1,000, Add	2.77	
For >1,000 To 2,000, Add	1.59	
For >2,000 To 5,000, Add	0.79	
For >10,000 To 20,000, Deduct	-0.40	
For >20,000 To 35,000, Deduct	-0.70	
For >35,000 To 50,000, Deduct	-1.00	
For >50,000 To 70,000, Deduct	-1.30	
For >70,000, Deduct	-1.60	
03 31 13 00-0009 SF 12" 3,000 PSI Slab On Grade Concrete Slabs Assembly	13.46	
For 2,000 PSI Concrete, Deduct	-0.50	
For 2,500 PSI Concrete, Deduct	-0.25	
For 3,500 PSI Concrete, Add	0.18	
For 4,000 PSI Concrete, Add	0.58	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	4.37	
For >500 To 1,000, Add	3.07	
For >1,000 To 2,000, Add	1.77	
For >2,000 To 5,000, Add	0.88	
For >10,000 To 20,000, Deduct	-0.46	
For >20,000 To 35,000, Deduct	-0.80	
For >35,000 To 50,000, Deduct	-1.14	
For >50,000 To 70,000, Deduct	-1.47	
For >70,000, Deduct	-1.81	
03 31 13 00-0010 Concrete Delivery And Placement (03 31 13)		
Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 00 00-0001 for admixtures.		
03 31 13 00-0011 Place Concrete By Method Indicated (03 31 13 00-0010)		
Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 31 13 00-0088 for concrete pumping equipment.		
03 31 13 00-0012 Place Concrete Pile Caps (03 31 13 00-0011)		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	251.99	
For 2,000 PSI Concrete, Deduct	-8.37	
For 2,500 PSI Concrete, Deduct	-4.19	
For 3,500 PSI Concrete, Add	7.75	
For 3,750 PSI Concrete, Add	10.54	
For 4,000 PSI Concrete, Add	13.33	
For 4,500 PSI Concrete, Add	15.50	
For 5,000 PSI Concrete, Add	17.67	
For 6,000 PSI Concrete, Add	41.85	
For 7,500 PSI Concrete, Add	103.93	
For White Cement Concrete, Add	18.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
For High Early Strength, Type 3 ASTM C150, Add	15.50	
For Lightweight Aggregate, ASTM C330, Add	46.50	
For Up To 20, Add	38.80	
For >20 To 50, Add	14.55	
For >100 To 200, Deduct	-5.04	
For >200 To 400, Deduct	-10.08	
For >400, Deduct	-15.12	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps	198.73	
For 2,000 PSI Concrete, Deduct	-8.37	
For 2,500 PSI Concrete, Deduct	-4.19	
For 3,500 PSI Concrete, Add	7.75	
For 3,750 PSI Concrete, Add	10.54	
For 4,000 PSI Concrete, Add	13.33	
For 4,500 PSI Concrete, Add	15.50	
For 5,000 PSI Concrete, Add	17.67	
For 6,000 PSI Concrete, Add	41.85	
For 7,500 PSI Concrete, Add	103.93	
For White Cement Concrete, Add	18.60	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
For High Early Strength, Type 3 ASTM C150, Add	15.50	
For Lightweight Aggregate, ASTM C330, Add	46.50	
For Up To 20, Add	17.49	
For >20 To 50, Add	6.56	
For >100 To 200, Deduct	-3.97	
For >200 To 400, Deduct	-7.95	
For >400, Deduct	-11.92	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 31 13 00-0015	CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps Note: Excludes pumping equipment.	209.56		
	For 2,000 PSI Concrete, Deduct	-9.07		
	For 2,500 PSI Concrete, Deduct	-4.53		
	For 3,500 PSI Concrete, Add	8.40		
	For 3,750 PSI Concrete, Add	11.42		
	For 4,000 PSI Concrete, Add	14.44		
	For 4,500 PSI Concrete, Add	16.79		
	For 5,000 PSI Concrete, Add	19.14		
	For 6,000 PSI Concrete, Add	45.34		
	For 7,500 PSI Concrete, Add	112.59		
	For White Cement Concrete, Add	20.15		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
	For High Early Strength, Type 3 ASTM C150, Add	16.79		
	For Lightweight Aggregate, ASTM C330, Add	50.38		
	For Up To 20, Add	16.66		
	For >20 To 50, Add	6.25		
	For >100 To 200, Deduct	-4.19		
	For >200 To 400, Deduct	-8.38		
	For >400, Deduct	-12.57		
03 31 13 00-0016	Place Concrete Continuous Footings (03 31 13 00-0011)			
03 31 13 00-0017	CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	241.21		
	For 2,000 PSI Concrete, Deduct	-8.37		
	For 2,500 PSI Concrete, Deduct	-4.19		
	For 3,500 PSI Concrete, Add	7.75		
	For 3,750 PSI Concrete, Add	10.54		
	For 4,000 PSI Concrete, Add	13.33		
	For 4,500 PSI Concrete, Add	15.50		
	For 5,000 PSI Concrete, Add	17.67		
	For 6,000 PSI Concrete, Add	41.85		
	For 7,500 PSI Concrete, Add	103.93		
	For White Cement Concrete, Add	18.60		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
	For High Early Strength, Type 3 ASTM C150, Add	15.50		
	For Lightweight Aggregate, ASTM C330, Add	46.50		
	For Up To 20, Add	34.48		
	For >20 To 50, Add	12.93		
	For >100 To 200, Deduct	-4.82		
	For >200 To 400, Deduct	-9.65		
	For >400, Deduct	-14.47		
03 31 13 00-0018	CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	193.87		
	For 2,000 PSI Concrete, Deduct	-8.37		
	For 2,500 PSI Concrete, Deduct	-4.19		
	For 3,500 PSI Concrete, Add	7.75		
	For 3,750 PSI Concrete, Add	10.54		
	For 4,000 PSI Concrete, Add	13.33		
	For 4,500 PSI Concrete, Add	15.50		
	For 5,000 PSI Concrete, Add	17.67		
	For 6,000 PSI Concrete, Add	41.85		
	For 7,500 PSI Concrete, Add	103.93		
	For White Cement Concrete, Add	18.60		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
	For High Early Strength, Type 3 ASTM C150, Add	15.50		
	For Lightweight Aggregate, ASTM C330, Add	46.50		
	For Up To 20, Add	15.55		
	For >20 To 50, Add	5.83		
	For >100 To 200, Deduct	-3.88		
	For >200 To 400, Deduct	-7.75		
	For >400, Deduct	-11.63		
03 31 13 00-0019	CY Concrete Pump, Place 3,000 PSI Concrete Continuous Footings..... Note: Excludes pumping equipment.	204.94		
	For 2,000 PSI Concrete, Deduct	-9.07		
	For 2,500 PSI Concrete, Deduct	-4.53		
	For 3,500 PSI Concrete, Add	8.40		
	For 3,750 PSI Concrete, Add	11.42		
	For 4,000 PSI Concrete, Add	14.44		
	For 4,500 PSI Concrete, Add	16.79		
	For 5,000 PSI Concrete, Add	19.14		
	For 6,000 PSI Concrete, Add	45.34		
	For 7,500 PSI Concrete, Add	112.59		
	For White Cement Concrete, Add	20.15		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
	For High Early Strength, Type 3 ASTM C150, Add	16.79		
	For Lightweight Aggregate, ASTM C330, Add	50.38		
	For Up To 20, Add	14.81		
	For >20 To 50, Add	5.55		
	For >100 To 200, Deduct	-4.10		
	For >200 To 400, Deduct	-8.20		
	For >400, Deduct	-12.30		

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

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
03 31 13 00-0021	CY	Crane And Bucket, Place 3,000 PSI Concrete Spread Footings	300.49		
		For 2,000 PSI Concrete, Deduct	-8.37		
		For 2,500 PSI Concrete, Deduct	-4.19		
		For 3,500 PSI Concrete, Add	7.75		
		For 3,750 PSI Concrete, Add	10.54		
		For 4,000 PSI Concrete, Add	13.33		
		For 4,500 PSI Concrete, Add	15.50		
		For 5,000 PSI Concrete, Add	17.67		
		For 6,000 PSI Concrete, Add	41.85		
		For 7,500 PSI Concrete, Add	103.93		
		For White Cement Concrete, Add	18.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
		For High Early Strength, Type 3 ASTM C150, Add	15.50		
		For Lightweight Aggregate, ASTM C330, Add	46.50		
		For Up To 20, Add	58.20		
		For >20 To 50, Add	21.82		
		For >100 To 200, Deduct	-6.01		
		For >200 To 400, Deduct	-12.02		
		For >400, Deduct	-18.03		
03 31 13 00-0022	CY	Direct Chute, Place 3,000 PSI Concrete Spread Footings.....	220.59		
		For 2,000 PSI Concrete, Deduct	-8.37		
		For 2,500 PSI Concrete, Deduct	-4.19		
		For 3,500 PSI Concrete, Add	7.75		
		For 3,750 PSI Concrete, Add	10.54		
		For 4,000 PSI Concrete, Add	13.33		
		For 4,500 PSI Concrete, Add	15.50		
		For 5,000 PSI Concrete, Add	17.67		
		For 6,000 PSI Concrete, Add	41.85		
		For 7,500 PSI Concrete, Add	103.93		
		For White Cement Concrete, Add	18.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
		For High Early Strength, Type 3 ASTM C150, Add	15.50		
		For Lightweight Aggregate, ASTM C330, Add	46.50		
		For Up To 20, Add	26.24		
		For >20 To 50, Add	9.84		
		For >100 To 200, Deduct	-4.41		
		For >200 To 400, Deduct	-8.82		
		For >400, Deduct	-13.24		
03 31 13 00-0023	CY	Concrete Pump, Place 3,000 PSI Concrete Spread Footings.....	230.39		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-9.07		
		For 2,500 PSI Concrete, Deduct	-4.53		
		For 3,500 PSI Concrete, Add	8.40		
		For 3,750 PSI Concrete, Add	11.42		
		For 4,000 PSI Concrete, Add	14.44		
		For 4,500 PSI Concrete, Add	16.79		
		For 5,000 PSI Concrete, Add	19.14		
		For 6,000 PSI Concrete, Add	45.34		
		For 7,500 PSI Concrete, Add	112.59		
		For White Cement Concrete, Add	20.15		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
		For High Early Strength, Type 3 ASTM C150, Add	16.79		
		For Lightweight Aggregate, ASTM C330, Add	50.38		
		For Up To 20, Add	24.99		
		For >20 To 50, Add	9.37		
		For >100 To 200, Deduct	-4.61		
		For >200 To 400, Deduct	-9.22		
		For >400, Deduct	-13.82		
03 31 13 00-0024		Place Concrete Mat Foundation (03 31 13 00-0011)			
03 31 13 00-0025	CY	Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation	180.87		
		For 2,000 PSI Concrete, Deduct	-8.37		
		For 2,500 PSI Concrete, Deduct	-4.19		
		For 3,500 PSI Concrete, Add	7.75		
		For 3,750 PSI Concrete, Add	10.54		
		For 4,000 PSI Concrete, Add	13.33		
		For 4,500 PSI Concrete, Add	15.50		
		For 5,000 PSI Concrete, Add	17.67		
		For 6,000 PSI Concrete, Add	41.85		
		For 7,500 PSI Concrete, Add	103.93		
		For White Cement Concrete, Add	18.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
		For High Early Strength, Type 3 ASTM C150, Add	15.50		
		For Lightweight Aggregate, ASTM C330, Add	46.50		
		For Up To 20, Add	10.35		
		For >20 To 50, Add	3.88		
		For >100 To 200, Deduct	-3.62		
		For >200 To 400, Deduct	-7.23		
		For >400, Deduct	-10.85		



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 31 13 00-0026	CY Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	166.67		
	For 2,000 PSI Concrete, Deduct	-8.37		
	For 2,500 PSI Concrete, Deduct	-4.19		
	For 3,500 PSI Concrete, Add	7.75		
	For 3,750 PSI Concrete, Add	10.54		
	For 4,000 PSI Concrete, Add	13.33		
	For 4,500 PSI Concrete, Add	15.50		
	For 5,000 PSI Concrete, Add	17.67		
	For 6,000 PSI Concrete, Add	41.85		
	For 7,500 PSI Concrete, Add	103.93		
	For White Cement Concrete, Add	18.60		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
	For High Early Strength, Type 3 ASTM C150, Add	15.50		
	For Lightweight Aggregate, ASTM C330, Add	46.50		
	For Up To 20, Add	4.67		
	For >20 To 50, Add	1.75		
	For >100 To 200, Deduct	-3.33		
	For >200 To 400, Deduct	-6.67		
	For >400, Deduct	-10.00		
03 31 13 00-0027	CY Concrete Pump, Place 3,000 PSI Concrete Mat Foundation.....	177.64		
	Note: Excludes pumping equipment.			
	For 2,000 PSI Concrete, Deduct	-9.07		
	For 2,500 PSI Concrete, Deduct	-4.53		
	For 3,500 PSI Concrete, Add	8.40		
	For 3,750 PSI Concrete, Add	11.42		
	For 4,000 PSI Concrete, Add	14.44		
	For 4,500 PSI Concrete, Add	16.79		
	For 5,000 PSI Concrete, Add	19.14		
	For 6,000 PSI Concrete, Add	45.34		
	For 7,500 PSI Concrete, Add	112.59		
	For White Cement Concrete, Add	20.15		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
	For High Early Strength, Type 3 ASTM C150, Add	16.79		
	For Lightweight Aggregate, ASTM C330, Add	50.38		
	For Up To 20, Add	3.89		
	For >20 To 50, Add	1.46		
	For >100 To 200, Deduct	-3.55		
	For >200 To 400, Deduct	-7.11		
	For >400, Deduct	-10.66		
03 31 13 00-0028	Place Concrete Grade Beams (03 31 13 00-0011)			
03 31 13 00-0029	CY Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	223.97		
	For 2,000 PSI Concrete, Deduct	-8.37		
	For 2,500 PSI Concrete, Deduct	-4.19		
	For 3,500 PSI Concrete, Add	7.75		
	For 3,750 PSI Concrete, Add	10.54		
	For 4,000 PSI Concrete, Add	13.33		
	For 4,500 PSI Concrete, Add	15.50		
	For 5,000 PSI Concrete, Add	17.67		
	For 6,000 PSI Concrete, Add	41.85		
	For 7,500 PSI Concrete, Add	103.93		
	For White Cement Concrete, Add	18.60		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
	For High Early Strength, Type 3 ASTM C150, Add	15.50		
	For Lightweight Aggregate, ASTM C330, Add	46.50		
	For Up To 20, Add	27.59		
	For >20 To 50, Add	10.35		
	For >100 To 200, Deduct	-4.48		
	For >200 To 400, Deduct	-8.96		
	For >400, Deduct	-13.44		
03 31 13 00-0030	CY Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	186.09		
	For 2,000 PSI Concrete, Deduct	-8.37		
	For 2,500 PSI Concrete, Deduct	-4.19		
	For 3,500 PSI Concrete, Add	7.75		
	For 3,750 PSI Concrete, Add	10.54		
	For 4,000 PSI Concrete, Add	13.33		
	For 4,500 PSI Concrete, Add	15.50		
	For 5,000 PSI Concrete, Add	17.67		
	For 6,000 PSI Concrete, Add	41.85		
	For 7,500 PSI Concrete, Add	103.93		
	For White Cement Concrete, Add	18.60		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
	For High Early Strength, Type 3 ASTM C150, Add	15.50		
	For Lightweight Aggregate, ASTM C330, Add	46.50		
	For Up To 20, Add	12.44		
	For >20 To 50, Add	4.66		
	For >100 To 200, Deduct	-3.72		
	For >200 To 400, Deduct	-7.44		
	For >400, Deduct	-11.17		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0031	CY		Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	197.54	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.07	
			For 2,500 PSI Concrete, Deduct	-4.53	
			For 3,500 PSI Concrete, Add	8.40	
			For 3,750 PSI Concrete, Add	11.42	
			For 4,000 PSI Concrete, Add	14.44	
			For 4,500 PSI Concrete, Add	16.79	
			For 5,000 PSI Concrete, Add	19.14	
			For 6,000 PSI Concrete, Add	45.34	
			For 7,500 PSI Concrete, Add	112.59	
			For White Cement Concrete, Add	20.15	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83	
			For High Early Strength, Type 3 ASTM C150, Add	16.79	
			For Lightweight Aggregate, ASTM C330, Add	50.38	
			For Up To 20, Add	11.85	
			For >20 To 50, Add	4.44	
			For >100 To 200, Deduct	-3.95	
			For >200 To 400, Deduct	-7.90	
			For >400, Deduct	-11.85	
03 31 13 00-0032			Place Concrete Slab On Grade (03 31 13 00-0011)		
03 31 13 00-0033	CY		Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	225.60	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	28.24	
			For >20 To 50, Add	10.59	
			For >100 To 200, Deduct	-4.51	
			For >200 To 400, Deduct	-9.02	
			For >400, Deduct	-13.54	
03 31 13 00-0034	CY		>6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	208.57	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	21.43	
			For >20 To 50, Add	8.04	
			For >100 To 200, Deduct	-4.17	
			For >200 To 400, Deduct	-8.34	
			For >400, Deduct	-12.51	
03 31 13 00-0035	CY		Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	186.83	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	12.73	
			For >20 To 50, Add	4.77	
			For >100 To 200, Deduct	-3.74	
			For >200 To 400, Deduct	-7.47	
			For >400, Deduct	-11.21	



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

03

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0036	CY		>6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	179.14	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	9.66	
			For >20 To 50, Add	3.62	
			For >100 To 200, Deduct	-3.58	
			For >200 To 400, Deduct	-7.17	
			For >400, Deduct	-10.75	
03 31 13 00-0037	CY		Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	194.45	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.07	
			For 2,500 PSI Concrete, Deduct	-4.53	
			For 3,500 PSI Concrete, Add	8.40	
			For 3,750 PSI Concrete, Add	11.42	
			For 4,000 PSI Concrete, Add	14.44	
			For 4,500 PSI Concrete, Add	16.79	
			For 5,000 PSI Concrete, Add	19.14	
			For 6,000 PSI Concrete, Add	45.34	
			For 7,500 PSI Concrete, Add	112.59	
			For White Cement Concrete, Add	20.15	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83	
			For High Early Strength, Type 3 ASTM C150, Add	16.79	
			For Lightweight Aggregate, ASTM C330, Add	50.38	
			For Up To 20, Add	10.61	
			For >20 To 50, Add	3.98	
			For >100 To 200, Deduct	-3.89	
			For >200 To 400, Deduct	-7.78	
			For >400, Deduct	-11.67	
03 31 13 00-0038	CY		>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade	188.04	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.07	
			For 2,500 PSI Concrete, Deduct	-4.53	
			For 3,500 PSI Concrete, Add	8.40	
			For 3,750 PSI Concrete, Add	11.42	
			For 4,000 PSI Concrete, Add	14.44	
			For 4,500 PSI Concrete, Add	16.79	
			For 5,000 PSI Concrete, Add	19.14	
			For 6,000 PSI Concrete, Add	45.34	
			For 7,500 PSI Concrete, Add	112.59	
			For White Cement Concrete, Add	20.15	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83	
			For High Early Strength, Type 3 ASTM C150, Add	16.79	
			For Lightweight Aggregate, ASTM C330, Add	50.38	
			For Up To 20, Add	8.05	
			For >20 To 50, Add	3.02	
			For >100 To 200, Deduct	-3.76	
			For >200 To 400, Deduct	-7.52	
			For >400, Deduct	-11.28	
03 31 13 00-0039			Place Concrete Duct Bank (03 31 13 00-0011)		
03 31 13 00-0040	CY		Direct Chute, Place 3,000 PSI Concrete Duct Bank	181.34	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	10.54	
			For >20 To 50, Add	3.95	
			For >100 To 200, Deduct	-3.63	
			For >200 To 400, Deduct	-7.25	
			For >400, Deduct	-10.88	
03 31 13 00-0041			Place Concrete Stairs (03 31 13 00-0011)		

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
03 31 13 00-0042	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	472.62		
		For 2,000 PSI Concrete, Deduct	-8.37		
		For 2,500 PSI Concrete, Deduct	-4.19		
		For 3,500 PSI Concrete, Add	7.75		
		For 3,750 PSI Concrete, Add	10.54		
		For 4,000 PSI Concrete, Add	13.33		
		For 4,500 PSI Concrete, Add	15.50		
		For 5,000 PSI Concrete, Add	17.67		
		For 6,000 PSI Concrete, Add	41.85		
		For 7,500 PSI Concrete, Add	103.93		
		For White Cement Concrete, Add	18.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
		For High Early Strength, Type 3 ASTM C150, Add	15.50		
		For Lightweight Aggregate, ASTM C330, Add	46.50		
		For Up To 20, Add	127.05		
		For >20 To 50, Add	47.64		
		For >100 To 200, Deduct	-9.45		
		For >200 To 400, Deduct	-18.90		
		For >400, Deduct	-28.36		
03 31 13 00-0043	CY	Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	298.22		
		For 2,000 PSI Concrete, Deduct	-8.37		
		For 2,500 PSI Concrete, Deduct	-4.19		
		For 3,500 PSI Concrete, Add	7.75		
		For 3,750 PSI Concrete, Add	10.54		
		For 4,000 PSI Concrete, Add	13.33		
		For 4,500 PSI Concrete, Add	15.50		
		For 5,000 PSI Concrete, Add	17.67		
		For 6,000 PSI Concrete, Add	41.85		
		For 7,500 PSI Concrete, Add	103.93		
		For White Cement Concrete, Add	18.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
		For High Early Strength, Type 3 ASTM C150, Add	15.50		
		For Lightweight Aggregate, ASTM C330, Add	46.50		
		For Up To 20, Add	57.29		
		For >20 To 50, Add	21.48		
		For >100 To 200, Deduct	-5.96		
		For >200 To 400, Deduct	-11.93		
		For >400, Deduct	-17.89		
03 31 13 00-0044	CY	Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs.....	287.28		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-9.07		
		For 2,500 PSI Concrete, Deduct	-4.53		
		For 3,500 PSI Concrete, Add	8.40		
		For 3,750 PSI Concrete, Add	11.42		
		For 4,000 PSI Concrete, Add	14.44		
		For 4,500 PSI Concrete, Add	16.79		
		For 5,000 PSI Concrete, Add	19.14		
		For 6,000 PSI Concrete, Add	45.34		
		For 7,500 PSI Concrete, Add	112.59		
		For White Cement Concrete, Add	20.15		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
		For High Early Strength, Type 3 ASTM C150, Add	16.79		
		For Lightweight Aggregate, ASTM C330, Add	50.38		
		For Up To 20, Add	47.74		
		For >20 To 50, Add	17.90		
		For >100 To 200, Deduct	-5.75		
		For >200 To 400, Deduct	-11.49		
		For >400, Deduct	-17.24		
03 31 13 00-0045		Place Concrete Thrust Blocks And Backfill (03 31 13 00-0011)			
03 31 13 00-0046	CY	Direct Chute, Place 3,000 PSI Concrete Thrust Blocks.....	224.97		
		For 2,000 PSI Concrete, Deduct	-8.37		
		For 2,500 PSI Concrete, Deduct	-4.19		
		For 3,500 PSI Concrete, Add	7.75		
		For 3,750 PSI Concrete, Add	10.54		
		For 4,000 PSI Concrete, Add	13.33		
		For 4,500 PSI Concrete, Add	15.50		
		For 5,000 PSI Concrete, Add	17.67		
		For 6,000 PSI Concrete, Add	41.85		
		For 7,500 PSI Concrete, Add	103.93		
		For White Cement Concrete, Add	18.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
		For High Early Strength, Type 3 ASTM C150, Add	15.50		
		For Lightweight Aggregate, ASTM C330, Add	46.50		
03 31 13 00-0047		Place Concrete Slurry (03 31 13 00-0011)			
		Note: 2 bag cement per CY.			
03 31 13 00-0048	CY	Direct Chute, Place 1,200 PSI Concrete Slurry	205.60		
03 31 13 00-0049	CY	Concrete Pump, Place 1,200 PSI Concrete Slurry.....	193.91		
		Note: Excludes pumping equipment.			
03 31 13 00-0050		Hand Mix And Place Concrete (03 31 13 00-0011)			



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0051	CF		Hand Mix And Place Concrete..... Note: For use where conventional equipment access is limited or when directed by the owner.	29.77	
			For 2,000 PSI Concrete, Deduct	-0.36	
			For 2,500 PSI Concrete, Deduct	-0.18	
			For 3,500 PSI Concrete, Add	0.33	
03 31 13 00-0052			Place Concrete Superstructure By Method Indicated (03 31 13 00-0010) See CSI section 03 31 13 00-0088 for concrete pump truck.		
03 31 13 00-0053			Place Elevated Concrete Beams (03 31 13 00-0052)		
03 31 13 00-0054	CY		Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams.....	327.43	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	68.97	
			For >20 To 50, Add	25.86	
			For >100 To 200, Deduct	-6.55	
			For >200 To 400, Deduct	-13.10	
			For >400, Deduct	-19.65	
03 31 13 00-0055	CY		Concrete Pump, Place 3,000 PSI Elevated Concrete Beams..... Note: Excludes pumping equipment.	241.96	
			For 2,000 PSI Concrete, Deduct	-9.07	
			For 2,500 PSI Concrete, Deduct	-4.53	
			For 3,500 PSI Concrete, Add	8.40	
			For 3,750 PSI Concrete, Add	11.42	
			For 4,000 PSI Concrete, Add	14.44	
			For 4,500 PSI Concrete, Add	16.79	
			For 5,000 PSI Concrete, Add	19.14	
			For 6,000 PSI Concrete, Add	45.34	
			For 7,500 PSI Concrete, Add	112.59	
			For White Cement Concrete, Add	20.15	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83	
			For High Early Strength, Type 3 ASTM C150, Add	16.79	
			For Lightweight Aggregate, ASTM C330, Add	50.38	
			For Up To 20, Add	29.62	
			For >20 To 50, Add	11.11	
			For >100 To 200, Deduct	-4.84	
			For >200 To 400, Deduct	-9.68	
			For >400, Deduct	-14.52	
03 31 13 00-0056			Place Elevated Concrete Slab (03 31 13 00-0052)		
03 31 13 00-0057	CY		Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	236.18	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	32.47	
			For >20 To 50, Add	12.18	
			For >100 To 200, Deduct	-4.72	
			For >200 To 400, Deduct	-9.45	
			For >400, Deduct	-14.17	

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
03 31 13 00-0058	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	216.59		
		For 2,000 PSI Concrete, Deduct	-8.37		
		For 2,500 PSI Concrete, Deduct	-4.19		
		For 3,500 PSI Concrete, Add	7.75		
		For 3,750 PSI Concrete, Add	10.54		
		For 4,000 PSI Concrete, Add	13.33		
		For 4,500 PSI Concrete, Add	15.50		
		For 5,000 PSI Concrete, Add	17.67		
		For 6,000 PSI Concrete, Add	41.85		
		For 7,500 PSI Concrete, Add	103.93		
		For White Cement Concrete, Add	18.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
		For High Early Strength, Type 3 ASTM C150, Add	15.50		
		For Lightweight Aggregate, ASTM C330, Add	46.50		
		For Up To 20, Add	24.64		
		For >20 To 50, Add	9.24		
		For >100 To 200, Deduct	-4.33		
		For >200 To 400, Deduct	-8.66		
		For >400, Deduct	-13.00		
03 31 13 00-0059	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	202.78		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-9.07		
		For 2,500 PSI Concrete, Deduct	-4.53		
		For 3,500 PSI Concrete, Add	8.40		
		For 3,750 PSI Concrete, Add	11.42		
		For 4,000 PSI Concrete, Add	14.44		
		For 4,500 PSI Concrete, Add	16.79		
		For 5,000 PSI Concrete, Add	19.14		
		For 6,000 PSI Concrete, Add	45.34		
		For 7,500 PSI Concrete, Add	112.59		
		For White Cement Concrete, Add	20.15		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
		For High Early Strength, Type 3 ASTM C150, Add	16.79		
		For Lightweight Aggregate, ASTM C330, Add	50.38		
		For Up To 20, Add	13.94		
		For >20 To 50, Add	5.23		
		For >100 To 200, Deduct	-4.06		
		For >200 To 400, Deduct	-8.11		
		For >400, Deduct	-12.17		
03 31 13 00-0060	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	194.36		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-9.07		
		For 2,500 PSI Concrete, Deduct	-4.53		
		For 3,500 PSI Concrete, Add	8.40		
		For 3,750 PSI Concrete, Add	11.42		
		For 4,000 PSI Concrete, Add	14.44		
		For 4,500 PSI Concrete, Add	16.79		
		For 5,000 PSI Concrete, Add	19.14		
		For 6,000 PSI Concrete, Add	45.34		
		For 7,500 PSI Concrete, Add	112.59		
		For White Cement Concrete, Add	20.15		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
		For High Early Strength, Type 3 ASTM C150, Add	16.79		
		For Lightweight Aggregate, ASTM C330, Add	50.38		
		For Up To 20, Add	10.58		
		For >20 To 50, Add	3.97		
		For >100 To 200, Deduct	-3.89		
		For >200 To 400, Deduct	-7.77		
		For >400, Deduct	-11.66		
03 31 13 00-0061		Place Concrete Columns (03 31 13 00-0052)			
03 31 13 00-0062	CY	12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	341.22		
		For 2,000 PSI Concrete, Deduct	-8.37		
		For 2,500 PSI Concrete, Deduct	-4.19		
		For 3,500 PSI Concrete, Add	7.75		
		For 3,750 PSI Concrete, Add	10.54		
		For 4,000 PSI Concrete, Add	13.33		
		For 4,500 PSI Concrete, Add	15.50		
		For 5,000 PSI Concrete, Add	17.67		
		For 6,000 PSI Concrete, Add	41.85		
		For 7,500 PSI Concrete, Add	103.93		
		For White Cement Concrete, Add	18.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
		For High Early Strength, Type 3 ASTM C150, Add	15.50		
		For Lightweight Aggregate, ASTM C330, Add	46.50		
		For Up To 20, Add	74.49		
		For >20 To 50, Add	27.93		
		For >100 To 200, Deduct	-6.82		
		For >200 To 400, Deduct	-13.65		
		For >400, Deduct	-20.47		



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0063	CY		18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	290.36	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	54.14	
			For >20 To 50, Add	20.30	
			For >100 To 200, Deduct	-5.81	
			For >200 To 400, Deduct	-11.61	
			For >400, Deduct	-17.42	
03 31 13 00-0064	CY		24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	253.97	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	39.59	
			For >20 To 50, Add	14.85	
			For >100 To 200, Deduct	-5.08	
			For >200 To 400, Deduct	-10.16	
			For >400, Deduct	-15.24	
03 31 13 00-0065	CY		36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	237.77	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	33.11	
			For >20 To 50, Add	12.42	
			For >100 To 200, Deduct	-4.76	
			For >200 To 400, Deduct	-9.51	
			For >400, Deduct	-14.27	
03 31 13 00-0066	CY		12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	247.89	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.07	
			For 2,500 PSI Concrete, Deduct	-4.53	
			For 3,500 PSI Concrete, Add	8.40	
			For 3,750 PSI Concrete, Add	11.42	
			For 4,000 PSI Concrete, Add	14.44	
			For 4,500 PSI Concrete, Add	16.79	
			For 5,000 PSI Concrete, Add	19.14	
			For 6,000 PSI Concrete, Add	45.34	
			For 7,500 PSI Concrete, Add	112.59	
			For White Cement Concrete, Add	20.15	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83	
			For High Early Strength, Type 3 ASTM C150, Add	16.79	
			For Lightweight Aggregate, ASTM C330, Add	50.38	
			For Up To 20, Add	31.99	
			For >20 To 50, Add	12.00	
			For >100 To 200, Deduct	-4.96	
			For >200 To 400, Deduct	-9.92	
			For >400, Deduct	-14.87	

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
03 31 13 00-0067	CY	18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	226.04		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-9.07		
		For 2,500 PSI Concrete, Deduct	-4.53		
		For 3,500 PSI Concrete, Add	8.40		
		For 3,750 PSI Concrete, Add	11.42		
		For 4,000 PSI Concrete, Add	14.44		
		For 4,500 PSI Concrete, Add	16.79		
		For 5,000 PSI Concrete, Add	19.14		
		For 6,000 PSI Concrete, Add	45.34		
		For 7,500 PSI Concrete, Add	112.59		
		For White Cement Concrete, Add	20.15		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
		For High Early Strength, Type 3 ASTM C150, Add	16.79		
		For Lightweight Aggregate, ASTM C330, Add	50.38		
		For Up To 20, Add	23.25		
		For >20 To 50, Add	8.72		
		For >100 To 200, Deduct	-4.52		
		For >200 To 400, Deduct	-9.04		
		For >400, Deduct	-13.56		
03 31 13 00-0068	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	210.42		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-9.07		
		For 2,500 PSI Concrete, Deduct	-4.53		
		For 3,500 PSI Concrete, Add	8.40		
		For 3,750 PSI Concrete, Add	11.42		
		For 4,000 PSI Concrete, Add	14.44		
		For 4,500 PSI Concrete, Add	16.79		
		For 5,000 PSI Concrete, Add	19.14		
		For 6,000 PSI Concrete, Add	45.34		
		For 7,500 PSI Concrete, Add	112.59		
		For White Cement Concrete, Add	20.15		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
		For High Early Strength, Type 3 ASTM C150, Add	16.79		
		For Lightweight Aggregate, ASTM C330, Add	50.38		
		For Up To 20, Add	17.00		
		For >20 To 50, Add	6.38		
		For >100 To 200, Deduct	-4.21		
		For >200 To 400, Deduct	-8.42		
		For >400, Deduct	-12.63		
03 31 13 00-0069	CY	36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	203.45		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-9.07		
		For 2,500 PSI Concrete, Deduct	-4.53		
		For 3,500 PSI Concrete, Add	8.40		
		For 3,750 PSI Concrete, Add	11.42		
		For 4,000 PSI Concrete, Add	14.44		
		For 4,500 PSI Concrete, Add	16.79		
		For 5,000 PSI Concrete, Add	19.14		
		For 6,000 PSI Concrete, Add	45.34		
		For 7,500 PSI Concrete, Add	112.59		
		For White Cement Concrete, Add	20.15		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
		For High Early Strength, Type 3 ASTM C150, Add	16.79		
		For Lightweight Aggregate, ASTM C330, Add	50.38		
		For Up To 20, Add	14.21		
		For >20 To 50, Add	5.33		
		For >100 To 200, Deduct	-4.07		
		For >200 To 400, Deduct	-8.14		
		For >400, Deduct	-12.21		
03 31 13 00-0070		Place Concrete Walls (03 31 13 00-0052)			
03 31 13 00-0071	CY	8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	329.58		
		For 2,000 PSI Concrete, Deduct	-8.37		
		For 2,500 PSI Concrete, Deduct	-4.19		
		For 3,500 PSI Concrete, Add	7.75		
		For 3,750 PSI Concrete, Add	10.54		
		For 4,000 PSI Concrete, Add	13.33		
		For 4,500 PSI Concrete, Add	15.50		
		For 5,000 PSI Concrete, Add	17.67		
		For 6,000 PSI Concrete, Add	41.85		
		For 7,500 PSI Concrete, Add	103.93		
		For White Cement Concrete, Add	18.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
		For High Early Strength, Type 3 ASTM C150, Add	15.50		
		For Lightweight Aggregate, ASTM C330, Add	46.50		
		For Up To 20, Add	69.83		
		For >20 To 50, Add	26.19		
		For >100 To 200, Deduct	-6.59		
		For >200 To 400, Deduct	-13.18		
		For >400, Deduct	-19.77		



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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
03 31 13 00-0072	CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls.....	315.11	
	For 2,000 PSI Concrete, Deduct	-8.37	
	For 2,500 PSI Concrete, Deduct	-4.19	
	For 3,500 PSI Concrete, Add	7.75	
	For 3,750 PSI Concrete, Add	10.54	
	For 4,000 PSI Concrete, Add	13.33	
	For 4,500 PSI Concrete, Add	15.50	
	For 5,000 PSI Concrete, Add	17.67	
	For 6,000 PSI Concrete, Add	41.85	
	For 7,500 PSI Concrete, Add	103.93	
	For White Cement Concrete, Add	18.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
	For High Early Strength, Type 3 ASTM C150, Add	15.50	
	For Lightweight Aggregate, ASTM C330, Add	46.50	
	For Up To 20, Add	64.04	
	For >20 To 50, Add	24.02	
	For >100 To 200, Deduct	-6.30	
	For >200 To 400, Deduct	-12.60	
	For >400, Deduct	-18.91	
03 31 13 00-0073	CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls.....	277.21	
	For 2,000 PSI Concrete, Deduct	-8.37	
	For 2,500 PSI Concrete, Deduct	-4.19	
	For 3,500 PSI Concrete, Add	7.75	
	For 3,750 PSI Concrete, Add	10.54	
	For 4,000 PSI Concrete, Add	13.33	
	For 4,500 PSI Concrete, Add	15.50	
	For 5,000 PSI Concrete, Add	17.67	
	For 6,000 PSI Concrete, Add	41.85	
	For 7,500 PSI Concrete, Add	103.93	
	For White Cement Concrete, Add	18.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
	For High Early Strength, Type 3 ASTM C150, Add	15.50	
	For Lightweight Aggregate, ASTM C330, Add	46.50	
	For Up To 20, Add	48.88	
	For >20 To 50, Add	18.33	
	For >100 To 200, Deduct	-5.54	
	For >200 To 400, Deduct	-11.09	
	For >400, Deduct	-16.63	
03 31 13 00-0074	CY 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls.....	233.71	
	For 2,000 PSI Concrete, Deduct	-8.37	
	For 2,500 PSI Concrete, Deduct	-4.19	
	For 3,500 PSI Concrete, Add	7.75	
	For 3,750 PSI Concrete, Add	10.54	
	For 4,000 PSI Concrete, Add	13.33	
	For 4,500 PSI Concrete, Add	15.50	
	For 5,000 PSI Concrete, Add	17.67	
	For 6,000 PSI Concrete, Add	41.85	
	For 7,500 PSI Concrete, Add	103.93	
	For White Cement Concrete, Add	18.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
	For High Early Strength, Type 3 ASTM C150, Add	15.50	
	For Lightweight Aggregate, ASTM C330, Add	46.50	
	For Up To 20, Add	31.48	
	For >20 To 50, Add	11.81	
	For >100 To 200, Deduct	-4.67	
	For >200 To 400, Deduct	-9.35	
	For >400, Deduct	-14.02	
03 31 13 00-0075	CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls.....	217.97	
	For 2,000 PSI Concrete, Deduct	-8.37	
	For 2,500 PSI Concrete, Deduct	-4.19	
	For 3,500 PSI Concrete, Add	7.75	
	For 3,750 PSI Concrete, Add	10.54	
	For 4,000 PSI Concrete, Add	13.33	
	For 4,500 PSI Concrete, Add	15.50	
	For 5,000 PSI Concrete, Add	17.67	
	For 6,000 PSI Concrete, Add	41.85	
	For 7,500 PSI Concrete, Add	103.93	
	For White Cement Concrete, Add	18.60	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
	For High Early Strength, Type 3 ASTM C150, Add	15.50	
	For Lightweight Aggregate, ASTM C330, Add	46.50	
	For Up To 20, Add	25.19	
	For >20 To 50, Add	9.45	
	For >100 To 200, Deduct	-4.36	
	For >200 To 400, Deduct	-8.72	
	For >400, Deduct	-13.08	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0076	CY	15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	210.10		
		For 2,000 PSI Concrete, Deduct	-8.37		
		For 2,500 PSI Concrete, Deduct	-4.19		
		For 3,500 PSI Concrete, Add	7.75		
		For 3,750 PSI Concrete, Add	10.54		
		For 4,000 PSI Concrete, Add	13.33		
		For 4,500 PSI Concrete, Add	15.50		
		For 5,000 PSI Concrete, Add	17.67		
		For 6,000 PSI Concrete, Add	41.85		
		For 7,500 PSI Concrete, Add	103.93		
		For White Cement Concrete, Add	18.60		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
		For High Early Strength, Type 3 ASTM C150, Add	15.50		
		For Lightweight Aggregate, ASTM C330, Add	46.50		
		For Up To 20, Add	22.04		
		For >20 To 50, Add	8.27		
		For >100 To 200, Deduct	-4.20		
		For >200 To 400, Deduct	-8.40		
		For >400, Deduct	-12.61		
03 31 13 00-0077	CY	8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	242.88		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-9.07		
		For 2,500 PSI Concrete, Deduct	-4.53		
		For 3,500 PSI Concrete, Add	8.40		
		For 3,750 PSI Concrete, Add	11.42		
		For 4,000 PSI Concrete, Add	14.44		
		For 4,500 PSI Concrete, Add	16.79		
		For 5,000 PSI Concrete, Add	19.14		
		For 6,000 PSI Concrete, Add	45.34		
		For 7,500 PSI Concrete, Add	112.59		
		For White Cement Concrete, Add	20.15		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
		For High Early Strength, Type 3 ASTM C150, Add	16.79		
		For Lightweight Aggregate, ASTM C330, Add	50.38		
		For Up To 20, Add	29.98		
		For >20 To 50, Add	11.24		
		For >100 To 200, Deduct	-4.86		
		For >200 To 400, Deduct	-9.72		
		For >400, Deduct	-14.57		
03 31 13 00-0078	CY	12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	227.89		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-9.07		
		For 2,500 PSI Concrete, Deduct	-4.53		
		For 3,500 PSI Concrete, Add	8.40		
		For 3,750 PSI Concrete, Add	11.42		
		For 4,000 PSI Concrete, Add	14.44		
		For 4,500 PSI Concrete, Add	16.79		
		For 5,000 PSI Concrete, Add	19.14		
		For 6,000 PSI Concrete, Add	45.34		
		For 7,500 PSI Concrete, Add	112.59		
		For White Cement Concrete, Add	20.15		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
		For High Early Strength, Type 3 ASTM C150, Add	16.79		
		For Lightweight Aggregate, ASTM C330, Add	50.38		
		For Up To 20, Add	23.99		
		For >20 To 50, Add	9.00		
		For >100 To 200, Deduct	-4.56		
		For >200 To 400, Deduct	-9.12		
		For >400, Deduct	-13.67		
03 31 13 00-0079	CY	15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	220.40		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-9.07		
		For 2,500 PSI Concrete, Deduct	-4.53		
		For 3,500 PSI Concrete, Add	8.40		
		For 3,750 PSI Concrete, Add	11.42		
		For 4,000 PSI Concrete, Add	14.44		
		For 4,500 PSI Concrete, Add	16.79		
		For 5,000 PSI Concrete, Add	19.14		
		For 6,000 PSI Concrete, Add	45.34		
		For 7,500 PSI Concrete, Add	112.59		
		For White Cement Concrete, Add	20.15		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
		For High Early Strength, Type 3 ASTM C150, Add	16.79		
		For Lightweight Aggregate, ASTM C330, Add	50.38		
		For Up To 20, Add	20.99		
		For >20 To 50, Add	7.87		
		For >100 To 200, Deduct	-4.41		
		For >200 To 400, Deduct	-8.82		
		For >400, Deduct	-13.22		

03 31 13 00-0080 Place Elevated Concrete Stairs (03 31 13 00-0052)



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 31 13 00-0081	CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs	507.94		
	For 2,000 PSI Concrete, Deduct	-8.37		
	For 2,500 PSI Concrete, Deduct	-4.19		
	For 3,500 PSI Concrete, Add	7.75		
	For 3,750 PSI Concrete, Add	10.54		
	For 4,000 PSI Concrete, Add	13.33		
	For 4,500 PSI Concrete, Add	15.50		
	For 5,000 PSI Concrete, Add	17.67		
	For 6,000 PSI Concrete, Add	41.85		
	For 7,500 PSI Concrete, Add	103.93		
	For White Cement Concrete, Add	18.60		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
	For High Early Strength, Type 3 ASTM C150, Add	15.50		
	For Lightweight Aggregate, ASTM C330, Add	46.50		
	For Up To 20, Add	141.18		
	For >20 To 50, Add	52.94		
	For >100 To 200, Deduct	-10.16		
	For >200 To 400, Deduct	-20.32		
	For >400, Deduct	-30.48		
03 31 13 00-0082	CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	314.13		
	For 2,000 PSI Concrete, Deduct	-8.37		
	For 2,500 PSI Concrete, Deduct	-4.19		
	For 3,500 PSI Concrete, Add	7.75		
	For 3,750 PSI Concrete, Add	10.54		
	For 4,000 PSI Concrete, Add	13.33		
	For 4,500 PSI Concrete, Add	15.50		
	For 5,000 PSI Concrete, Add	17.67		
	For 6,000 PSI Concrete, Add	41.85		
	For 7,500 PSI Concrete, Add	103.93		
	For White Cement Concrete, Add	18.60		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
	For High Early Strength, Type 3 ASTM C150, Add	15.50		
	For Lightweight Aggregate, ASTM C330, Add	46.50		
	For Up To 20, Add	63.65		
	For >20 To 50, Add	23.87		
	For >100 To 200, Deduct	-6.28		
	For >200 To 400, Deduct	-12.57		
	For >400, Deduct	-18.85		
03 31 13 00-0083	CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	300.53		
	Note: Excludes pumping equipment.			
	For 2,000 PSI Concrete, Deduct	-9.07		
	For 2,500 PSI Concrete, Deduct	-4.53		
	For 3,500 PSI Concrete, Add	8.40		
	For 3,750 PSI Concrete, Add	11.42		
	For 4,000 PSI Concrete, Add	14.44		
	For 4,500 PSI Concrete, Add	16.79		
	For 5,000 PSI Concrete, Add	19.14		
	For 6,000 PSI Concrete, Add	45.34		
	For 7,500 PSI Concrete, Add	112.59		
	For White Cement Concrete, Add	20.15		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83		
	For High Early Strength, Type 3 ASTM C150, Add	16.79		
	For Lightweight Aggregate, ASTM C330, Add	50.38		
	For Up To 20, Add	53.04		
	For >20 To 50, Add	19.89		
	For >100 To 200, Deduct	-6.01		
	For >200 To 400, Deduct	-12.02		
	For >400, Deduct	-18.03		
03 31 13 00-0084	Place Concrete Coping (03 31 13 00-0052)			
03 31 13 00-0085	CY Crane And Bucket, Place 3,000 PSI Concrete Coping	520.15		
	For 2,000 PSI Concrete, Deduct	-8.37		
	For 2,500 PSI Concrete, Deduct	-4.19		
	For 3,500 PSI Concrete, Add	7.75		
	For 3,750 PSI Concrete, Add	10.54		
	For 4,000 PSI Concrete, Add	13.33		
	For 4,500 PSI Concrete, Add	15.50		
	For 5,000 PSI Concrete, Add	17.67		
	For 6,000 PSI Concrete, Add	41.85		
	For 7,500 PSI Concrete, Add	103.93		
	For White Cement Concrete, Add	18.60		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15		
	For High Early Strength, Type 3 ASTM C150, Add	15.50		
	For Lightweight Aggregate, ASTM C330, Add	46.50		
	For Up To 20, Add	146.06		
	For >20 To 50, Add	54.77		
	For >100 To 200, Deduct	-10.40		
	For >200 To 400, Deduct	-20.81		
	For >400, Deduct	-31.21		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0086	CY		Direct Chute, Place 3,000 PSI Concrete Coping	313.05	
			For 2,000 PSI Concrete, Deduct	-8.37	
			For 2,500 PSI Concrete, Deduct	-4.19	
			For 3,500 PSI Concrete, Add	7.75	
			For 3,750 PSI Concrete, Add	10.54	
			For 4,000 PSI Concrete, Add	13.33	
			For 4,500 PSI Concrete, Add	15.50	
			For 5,000 PSI Concrete, Add	17.67	
			For 6,000 PSI Concrete, Add	41.85	
			For 7,500 PSI Concrete, Add	103.93	
			For White Cement Concrete, Add	18.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.15	
			For High Early Strength, Type 3 ASTM C150, Add	15.50	
			For Lightweight Aggregate, ASTM C330, Add	46.50	
			For Up To 20, Add	63.22	
			For >20 To 50, Add	23.71	
			For >100 To 200, Deduct	-6.26	
			For >200 To 400, Deduct	-12.52	
			For >400, Deduct	-18.78	
03 31 13 00-0087	CY		Concrete Pump, Place 3,000 PSI Concrete Coping.....	407.32	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.07	
			For 2,500 PSI Concrete, Deduct	-4.53	
			For 3,500 PSI Concrete, Add	8.40	
			For 3,750 PSI Concrete, Add	11.42	
			For 4,000 PSI Concrete, Add	14.44	
			For 4,500 PSI Concrete, Add	16.79	
			For 5,000 PSI Concrete, Add	19.14	
			For 6,000 PSI Concrete, Add	45.34	
			For 7,500 PSI Concrete, Add	112.59	
			For White Cement Concrete, Add	20.15	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.83	
			For High Early Strength, Type 3 ASTM C150, Add	16.79	
			For Lightweight Aggregate, ASTM C330, Add	50.38	
			For Up To 20, Add	95.76	
			For >20 To 50, Add	35.91	
			For >100 To 200, Deduct	-8.15	
			For >200 To 400, Deduct	-16.29	
			For >400, Deduct	-24.44	
03 31 13 00-0088			Concrete Pumping With Boom Truck (03 31 13 00-0010)		
			Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach.		
03 31 13 00-0089	HR		55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	161.90	
03 31 13 00-0090	HR		70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	173.74	
			For Each CY Of Concrete Pumped, Add	1.25	
03 31 13 00-0091	HR		90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	216.52	
			For Each CY Of Concrete Pumped, Add	1.50	
03 31 13 00-0092	HR		105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	243.15	
			For Each CY Of Concrete Pumped, Add	1.50	
03 31 13 00-0093	HR		120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	270.63	
			For Each CY Of Concrete Pumped, Add	1.75	
03 31 13 00-0094	HR		135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	328.83	
03 31 13 00-0095	HR		148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	363.55	
03 31 13 00-0096	HR		170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	447.65	
			For Each CY Of Concrete Pumped, Add	2.25	
03 31 13 00-0097	HR		35 CY/HR, 66 HP Trailer Mounted Concrete Pump	113.32	
			Note: Includes hoses		
03 31 13 00-0098			Concrete Carts (03 31 13 00-0010)		
			Note: Used to place concrete were necessary.		
03 31 13 00-0099	CY		50' Haul, Non Motorized, Concrete Buggy	19.01	
03 31 13 00-0100	CY		150' Haul, Non Motorized, Concrete Buggy	25.46	
03 31 13 00-0101	CY		250' Haul, Non Motorized, Concrete Buggy	33.95	
03 31 13 00-0102	CY		50' Haul, Motorized, Concrete Buggy	7.93	
03 31 13 00-0103	CY		150' Haul, Motorized, Concrete Buggy	10.62	
03 31 13 00-0104	CY		250' Haul, Motorized, Concrete Buggy	14.17	
03 31 13 00-0105			Delivery Fee For Small Purchases (03 31 13)		
03 31 13 00-0106	CY		Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY	18.22	
			Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.		
03 31 13 00-0107			Delivery Fee For Concrete, Per Truck Load (03 31 13)		
03 31 13 00-0108	EA		Concrete Delivery Fee, Per Truck	40.00	
			Note: To be added to all concrete leaving concrete yard		



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 31 13 00-0109	Equipment Pads (03 31 13)			
03 31 13 00-0110	Small Concrete Equipment Housekeeping Pad Assemblies (03 31 13 00-0109)			
	Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project.			
03 31 13 00-0111	SF 4" Equipment Pad With Welded Wire Reinforcement		15.02	
03 31 13 00-0112	SF 4" Equipment Pad With Rebar		18.43	
03 31 13 00-0113	SF 6" Equipment Pad With Rebar		23.36	
03 31 13 00-0114	SF 8" Equipment Pad With Rebar		29.46	
03 35	Concrete Finishing (03 30)			
03 35 16	Heavy-Duty Concrete Floor Finishing (03 35)			
03 35 16 00-0001	Floor Finishes (03 35 16)			
	Note: Task is for final finish type and includes all required prior finishes.			
03 35 16 00-0002	SF Screed, Concrete Floor Finish		0.80	
	For Up To 100, Add		1.60	
	For >100 To 250, Add		0.40	
	For >250 To 500, Add		0.20	
	For >5,000 To 10,000, Deduct		-0.04	
	For >10,000, Deduct		-0.08	
03 35 16 00-0003	SF Darby, Concrete Floor Finish		0.96	
	For Up To 100, Add		1.92	
	For >100 To 250, Add		0.48	
	For >250 To 500, Add		0.24	
	For >5,000 To 10,000, Deduct		-0.05	
	For >10,000, Deduct		-0.10	
03 35 16 00-0004	SF Broom, Concrete Floor Finish		1.06	
	For Up To 100, Add		2.12	
	For >100 To 250, Add		0.53	
	For >250 To 500, Add		0.27	
	For >5,000 To 10,000, Deduct		-0.05	
	For >10,000, Deduct		-0.11	
03 35 16 00-0005	SF Final Float, Concrete Floor Finish		1.23	
	For Up To 100, Add		2.46	
	For >100 To 250, Add		0.62	
	For >250 To 500, Add		0.31	
	For >5,000 To 10,000, Deduct		-0.06	
	For >10,000, Deduct		-0.12	
03 35 16 00-0006	SF Steel Trowel, Concrete Floor Finish		1.39	
	For Up To 100, Add		2.78	
	For >100 To 250, Add		0.70	
	For >250 To 500, Add		0.35	
	For >5,000 To 10,000, Deduct		-0.07	
	For >10,000, Deduct		-0.14	
03 35 23	Exposed Aggregate Concrete Finishing (03 35)			
03 35 23 00-0001	Exposed Aggregate, Concrete Finish (03 35 23)			
03 35 23 00-0002	SF Exposed Aggregate, Concrete Floor Finish		2.31	
03 35 26	Grooved Concrete Surface Finishing (03 35)			
03 35 26 00-0001	Ramp, Grooved Concrete Surface Finishing (03 35 26)			
03 35 26 00-0002	SF Ramp, Grooved Concrete Surface Finishing		3.41	
03 35 29	Tooled Concrete Finishing (03 35)			
03 35 29 00-0001	Solid Board Concrete Finish (03 35 29)			
03 35 29 00-0002	SF Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork		13.34	
03 35 29 00-0003	Marblecrete Finishes (03 35 29)			
03 35 29 00-0004	SF 2" Thick Marblecrete And Finish		36.89	
03 35 29 00-0005	SF 4" Thick Marblecrete And Finish		49.43	
03 35 33	Stamped Concrete Finishing (03 35)			
03 35 33 00-0001	Stamped Concrete Finishes (03 35 33)			
03 35 33 00-0002	SF Up To 2,500 SF Stamped Concrete Finish		3.15	
03 35 33 00-0003	SF >2,500 To 10,000 SF Stamped Concrete Finish		2.86	
03 35 33 00-0004	SF >10,000 SF Stamped Concrete Finish		2.73	
03 35 63	Slip-Resistant Floor Finishing (03 35)			
03 35 63 00-0001	Slip-Resistant Floor Finishing (03 35 63)			

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 63 00-0002	SF		Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF	1.08	
			For Up To 100, Add	1.52	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.19	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000, Deduct	-0.08	
03 35 63 00-0003	SF		Silicone Carbide Abrasive Floor Finish 0.25 LB/SF	1.01	
			For Up To 100, Add	1.52	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.19	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000, Deduct	-0.08	
03 35 66 Acid Etch Floor Finishing (03 35)					
03 35 66 00-0001			Acid Etch Floor (03 35 66)		
03 35 66 00-0002	SF		Concrete Floor Finishes, Etch With Acid And Rinse	0.86	
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.09	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000, Deduct	-0.04	
03 35 83 Wall Finishes (03 35)					
03 35 83 00-0001			Wall Finishes (03 35 83)		
03 35 83 00-0002	SF		Burlap Rub With Grout, New Concrete Wall Finishes	1.42	
			For Up To 100, Add	2.66	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.33	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000, Deduct	-0.13	
03 35 83 00-0003	SF		1/16" Float Finish, New Concrete Wall Finishes	2.14	
			For Up To 100, Add	4.02	
			For >100 To 250, Add	1.01	
			For >250 To 500, Add	0.50	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000, Deduct	-0.20	
03 35 83 00-0004	SF		Etch With Acid And Rinse, New Concrete Wall Finishes	0.93	
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000, Deduct	-0.04	
03 35 83 00-0005	SF		Bush Hammer Green Concrete, New Concrete Wall Finishes.....	4.28	
			For Up To 100, Add	8.48	
			For >100 To 250, Add	2.12	
			For >250 To 500, Add	1.06	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000, Deduct	-0.42	
03 35 83 00-0006	SF		Bush Hammer Cured Concrete, New Concrete Wall Finishes.....	6.64	
			For Up To 100, Add	13.10	
			For >100 To 250, Add	3.28	
			For >250 To 500, Add	1.64	
			For >5,000 To 10,000, Deduct	-0.33	
			For >10,000, Deduct	-0.66	
03 35 83 00-0007	SF		Break Ties And Patch, New Concrete Wall Finishes	0.83	
			For Up To 100, Add	1.44	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.18	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000, Deduct	-0.07	
03 35 83 00-0008	SF		Carborundum Dry Rub, New Concrete Wall Finishes	2.78	
			For Up To 100, Add	5.34	
			For >100 To 250, Add	1.34	
			For >250 To 500, Add	0.67	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000, Deduct	-0.27	
03 35 83 00-0009	SF		Carborundum Wet Rub, New Concrete Wall Finishes	4.23	
			For Up To 100, Add	8.24	
			For >100 To 250, Add	2.06	
			For >250 To 500, Add	1.03	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000, Deduct	-0.41	
03 35 83 00-0010	SF		Up To 1/4" Penetration Sand Blasting, New Concrete Wall Finishes.....	2.68	
			For Up To 100, Add	4.60	
			For >100 To 250, Add	1.15	
			For >250 To 500, Add	0.58	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000, Deduct	-0.23	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0011	SF		>1/4" To 1/2" Penetration Sand Blasting, New Concrete Wall Finishes.....	7.50	
			For Up To 100, Add	13.48	
			For >100 To 250, Add	3.37	
			For >250 To 500, Add	1.69	
			For >5,000 To 10,000, Deduct	-0.34	
			For >10,000, Deduct	-0.67	

03 37 Specialty Placed Concrete (03 30)

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

03 37 13 Shotcrete (03 37)

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

03 37 13 00-0002	SF	1" Thick Shotcrete, Fiber Reinforced	4.54
		For Up To 25, Add	0.69
		For >25 To 50, Add	0.38
		For >50 To 150, Add	0.12
03 37 13 00-0003	SF	2" Thick Shotcrete, Fiber Reinforced	8.76
		For Up To 25, Add	1.30
		For >25 To 50, Add	0.72
		For >50 To 150, Add	0.21
03 37 13 00-0004	SF	3" Thick Shotcrete, Fiber Reinforced	12.72
		For Up To 25, Add	1.84
		For >25 To 50, Add	1.02
		For >50 To 150, Add	0.29
03 37 13 00-0005	SF	4" Thick Shotcrete, Fiber Reinforced	16.45
		For Up To 25, Add	2.33
		For >25 To 50, Add	1.28
		For >50 To 150, Add	0.34
03 37 13 00-0006	SF	6" Thick Shotcrete, Fiber Reinforced	23.38
		For Up To 25, Add	3.17
		For >25 To 50, Add	1.72
		For >50 To 150, Add	0.42

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

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

03 37 13 00-0008	SF	1" Thick Gunite (Dry Mix Shotcrete), Sprayed	4.18
		For Radius Or Irregular Surface, Add	0.86
		For Up To 25, Add	0.74
		For >25 To 50, Add	0.43
		For >50 To 150, Add	0.16
03 37 13 00-0009	SF	2" Thick Gunite (Dry Mix Shotcrete), Sprayed	7.92
		For Radius Or Irregular Surface, Add	1.55
		For Up To 25, Add	1.37
		For >25 To 50, Add	0.78
		For >50 To 150, Add	0.29
03 37 13 00-0010	SF	3" Thick Gunite (Dry Mix Shotcrete), Sprayed	11.30
		For Radius Or Irregular Surface, Add	2.09
		For Up To 25, Add	1.91
		For >25 To 50, Add	1.09
		For >50 To 150, Add	0.39
03 37 13 00-0011	SF	4" Thick Gunite (Dry Mix Shotcrete), Sprayed	14.36
		For Radius Or Irregular Surface, Add	2.51
		For Up To 25, Add	2.38
		For >25 To 50, Add	1.35
		For >50 To 150, Add	0.47
03 37 13 00-0012	SF	5" Thick Gunite (Dry Mix Shotcrete), Sprayed	17.17
		For Radius Or Irregular Surface, Add	2.82
		For Up To 25, Add	2.77
		For >25 To 50, Add	1.56
		For >50 To 150, Add	0.53
03 37 13 00-0013	SF	6" Thick Gunite (Dry Mix Shotcrete), Sprayed	19.76
		For Radius Or Irregular Surface, Add	3.05
		For Up To 25, Add	3.12
		For >25 To 50, Add	1.75
		For >50 To 150, Add	0.57
03 37 13 00-0014	SF	8" Thick Gunite (Dry Mix Shotcrete), Sprayed	25.34
		For Radius Or Irregular Surface, Add	3.66
		For Up To 25, Add	3.91
		For >25 To 50, Add	2.18
		For >50 To 150, Add	0.69
03 37 13 00-0015	SF	10" Thick Gunite (Dry Mix Shotcrete), Sprayed	30.52
		For Radius Or Irregular Surface, Add	4.11
		For Up To 25, Add	4.59
		For >25 To 50, Add	2.55
		For >50 To 150, Add	0.77
03 37 13 00-0016	SF	12" Thick Gunite (Dry Mix Shotcrete), Sprayed	35.39
		For Radius Or Irregular Surface, Add	4.44
		For Up To 25, Add	5.21
		For >25 To 50, Add	2.88
		For >50 To 150, Add	0.83

03 Concrete**03 30 Cast-In-Place Concrete****03 39 Concrete Curing**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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

03 39 13 00-0002 GAL Water Based Curing, Sealing, Hardening And Dustproofing Compound 39.01
Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.

03 39 23 Membrane Concrete Curing (03 39)**03 39 23 23 Sheet Membrane Concrete Curing** (03 39 23)**03 39 23 23-0001 Concrete Curing Materials And Compounds** (03 39 23 23)

03 39 23 23-0002 CSF 7.5 Oz Burlap, Concrete Curing Blanket 31.19
03 39 23 23-0003 CSF 9 Oz Burlap, Concrete Curing Blanket 30.01
03 39 23 23-0004 CSF 12 Oz Burlap, Concrete Curing Blanket 33.90
03 39 23 23-0005 CSF 2 Ply Reinforced, Concrete Curing Waterproof Paper 31.44
03 39 23 23-0006 CSF Curing Paper 10.89

03 39 33 Concrete Surface Treatments (03 39)**03 39 33 00-0001 Concrete Surface Treatments** (03 39 33)

03 39 33 00-0002 SF Acrylic Latex Bonding Agent 0.40
03 39 33 00-0003 SF Epoxy Resin Bonding Agent 2.09
03 39 33 00-0004 SF Clear Acrylic Sealer, Hardener And Dustproof 0.26
03 39 33 00-0005 SF Colored Acrylic Sealer, Hardener And Dustproof 0.27

03 39 33 00-0006 Shake On Floor Hardeners (03 39 33)

03 39 33 00-0007 SF 0.3 LB/SF, Metallic, Shake On Floor Hardener 1.02
03 39 33 00-0008 SF 0.65 LB/SF, Metallic, Shake On Floor Hardener 1.60
03 39 33 00-0009 SF 0.3 LB/SF, Non Metallic, Shake On Floor Hardener 0.96
03 39 33 00-0010 SF 0.65 LB/SF, Non Metallic, Shake On Floor Hardener 1.18

03 40 Precast Concrete (03)

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

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

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

03 41 16 00-0003	EA	Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane.....	273.19	218.57
03 41 16 00-0004	EA	Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	303.70	242.91
03 41 16 00-0005	EA	Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	322.48	257.97
03 41 16 00-0006	EA	Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane.....	341.86	273.50
03 41 16 00-0007	EA	Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	365.85	292.67
03 41 16 00-0008	EA	Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	391.00	312.80
03 41 16 00-0009	EA	Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	419.87	335.87
03 41 16 00-0010	EA	Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	456.64	365.29
03 41 16 00-0011	EA	Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane.....	496.52	397.26

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

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

03 41 16 00-0013	SF	4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	18.65	
		For 3,500 PSI Concrete, Add	0.37	
		For 4,000 PSI Concrete, Add	0.56	
		For 4,500 PSI Concrete, Add	0.75	
		For 5,000 PSI Concrete, Add	1.12	
03 41 16 00-0014	SF	5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	22.38	
		For 3,500 PSI Concrete, Add	0.45	
		For 4,000 PSI Concrete, Add	0.67	
		For 4,500 PSI Concrete, Add	0.90	
		For 5,000 PSI Concrete, Add	1.34	
03 41 16 00-0015	SF	6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	27.35	
		For 3,500 PSI Concrete, Add	0.55	
		For 4,000 PSI Concrete, Add	0.82	
		For 4,500 PSI Concrete, Add	1.09	
		For 5,000 PSI Concrete, Add	1.64	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0016 SF 8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	36.30 0.73 1.09 1.45 2.18	
03 41 16 00-0017 Floor Units, Combination Beam And Slab (03 41 16)		
03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane (03 41 16 00-0017) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0019 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane	336.87	269.48
03 41 16 00-0020 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane	367.17	293.78
03 41 16 00-0021 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane	405.82	324.62
03 41 16 00-0022 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane	450.62	360.47
03 41 16 00-0023 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane	506.53	405.19
03 41 16 00-0024 Erection Costs Using A 125 Ton Crawler Crane (03 41 16 00-0017) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0025 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane	422.79	338.26
03 41 16 00-0026 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane	460.81	368.63
03 41 16 00-0027 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane.....	509.33	407.49
03 41 16 00-0028 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane.....	565.55	452.46
03 41 16 00-0029 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane.....	635.72	508.64
03 41 16 00-0030 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane.....	691.23	552.94
03 41 16 00-0031 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane.....	763.98	611.18
03 41 16 00-0032 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane.....	845.58	676.50
03 41 16 00-0033 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane.....	957.08	765.67
03 41 16 00-0034 Material Cost (03 41 16 00-0017) Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.		
03 41 16 00-0035 4" Slab (03 41 16 00-0034)		
03 41 16 00-0036 CY Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	1,964.30 39.29 58.93 78.57 117.86	
03 41 16 00-0037 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	1,989.17 39.78 59.68 79.57 119.35	
03 41 16 00-0038 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	2,237.81 44.76 67.13 89.51 134.27	
03 41 16 00-0039 5" Slab (03 41 16 00-0034)		
03 41 16 00-0040 CY Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	2,014.03 40.28 60.42 80.56 120.84	
03 41 16 00-0041 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	2,088.63 41.77 62.66 83.55 125.32	
03 41 16 00-0042 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	2,660.51 53.21 79.82 106.42 159.63	
03 41 16 00-0043 6" Slab (03 41 16 00-0034)		
03 41 16 00-0044 CY Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	2,088.63 41.77 62.66 83.55 125.32	
03 41 16 00-0045 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	2,486.46 49.73 74.59 99.46 149.19	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0046 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,033.48	
For 3,500 PSI Concrete, Add	60.67	
For 4,000 PSI Concrete, Add	91.00	
For 4,500 PSI Concrete, Add	121.34	
For 5,000 PSI Concrete, Add	182.01	
03 41 19 Precast Concrete Wall Panels (03 41)		
03 41 19 00-0001 Structural Wall Panels (03 41 19)		
Note: Gray, smooth form or board finish one side.		
03 41 19 00-0002 Erection Cost Using 50 Ton Hydraulic Crane (03 41 19 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0003 EA Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	270.53	216.45
03 41 19 00-0004 EA Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	300.74	240.55
03 41 19 00-0005 EA Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	338.54	270.85
03 41 19 00-0006 EA Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	362.29	289.82
03 41 19 00-0007 EA Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	387.20	309.76
03 41 19 00-0008 EA Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	415.79	332.61
03 41 19 00-0009 EA Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	452.20	361.74
03 41 19 00-0010 EA Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	491.69	393.40
03 41 19 00-0011 Erection Cost Using 90 Ton Crawler Crane (03 41 19 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0012 EA Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	303.03	242.40
03 41 19 00-0013 EA Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	336.87	269.48
03 41 19 00-0014 EA Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	379.21	303.41
03 41 19 00-0015 EA Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	405.82	324.62
03 41 19 00-0016 EA Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	433.72	346.97
03 41 19 00-0017 EA Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	465.74	372.61
03 41 19 00-0018 EA Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane.....	506.53	405.19
03 41 19 00-0019 EA Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	550.75	440.57
03 41 19 00-0020 EA Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	608.73	487.02
03 41 19 00-0021 EA Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	673.74	538.97
03 41 19 00-0022 EA Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	762.58	610.10
03 41 19 00-0023 EA Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	867.44	693.96
03 41 19 00-0024 EA Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane.....	1,005.73	804.60
03 41 19 00-0025 Material Cost (03 41 19 00-0001)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0026 SF 4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	24.86	
For 3,500 PSI Concrete, Add	0.50	
For 4,000 PSI Concrete, Add	0.75	
For 4,500 PSI Concrete, Add	0.99	
For 5,000 PSI Concrete, Add	1.49	
For White Facing, Add	4.97	
For Solid White Through Thickness, Add	4.97	
For Broken Rib Finish, Add	2.49	
For Fluted Surface, Add	2.49	
For Exposed Aggregate, Add	4.97	
For Sandblasting Of Surface, Add	2.49	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0027 SF 5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	30.58	
For 3,500 PSI Concrete, Add	0.61	
For 4,000 PSI Concrete, Add	0.92	
For 4,500 PSI Concrete, Add	1.22	
For 5,000 PSI Concrete, Add	1.83	
For White Facing, Add	6.12	
For Solid White Through Thickness, Add	6.12	
For Broken Rib Finish, Add	3.06	
For Fluted Surface, Add	3.06	
For Exposed Aggregate, Add	6.12	
For Sandblasting Of Surface, Add	3.06	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0028 SF 6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	36.80	
For 3,500 PSI Concrete, Add	0.74	
For 4,000 PSI Concrete, Add	1.10	
For 4,500 PSI Concrete, Add	1.47	
For 5,000 PSI Concrete, Add	2.21	
For White Facing, Add	7.36	
For Solid White Through Thickness, Add	7.36	
For Broken Rib Finish, Add	3.68	
For Fluted Surface, Add	3.68	
For Exposed Aggregate, Add	7.36	
For Sandblasting Of Surface, Add	3.68	
For 2" Polystyrene Insulation, Add	1.15	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0029 SF 8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	48.49	
For 3,500 PSI Concrete, Add	0.97	
For 4,000 PSI Concrete, Add	1.45	
For 4,500 PSI Concrete, Add	1.94	
For 5,000 PSI Concrete, Add	2.91	
For White Facing, Add	9.70	
For Solid White Through Thickness, Add	9.70	
For Broken Rib Finish, Add	4.85	
For Fluted Surface, Add	4.85	
For Exposed Aggregate, Add	9.70	
For Sandblasting Of Surface, Add	4.85	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0030 Partition Panels (03 41 19)		
03 41 19 00-0031 Erection Costs Using 20 Ton Hydraulic Crane (03 41 19 00-0030)		
Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0032 EA Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane.....	218.97	175.15
03 41 19 00-0033 EA Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane.....	243.42	194.76
03 41 19 00-0034 EA Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane.....	274.02	219.21
03 41 19 00-0035 EA Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane.....	313.41	250.73
03 41 19 00-0036 EA Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane.....	336.55	269.26
03 41 19 00-0037 EA Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane.....	366.02	292.81
03 41 19 00-0038 EA Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane.....	397.98	318.42
03 41 19 00-0039 EA Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane.....	439.87	351.91
03 41 19 00-0040 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0030)		
Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0041 EA Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	270.53	216.45
03 41 19 00-0042 EA Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	300.74	240.55
03 41 19 00-0043 EA Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	338.54	270.85
03 41 19 00-0044 EA Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	387.20	309.76
03 41 19 00-0045 EA Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	415.79	332.61
03 41 19 00-0046 EA Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	452.20	361.74
03 41 19 00-0047 EA Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	491.69	393.40
03 41 19 00-0048 EA Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	543.44	434.73
03 41 19 00-0049 EA Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane.....	601.47	481.20
03 41 19 00-0050 EA Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane.....	680.80	544.60
03 41 19 00-0051 EA Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	774.40	619.53
03 41 19 00-0052 EA Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane.....	897.86	718.26
03 41 19 00-0053 Material Cost (03 41 19 00-0030)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0054 SF 4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	23.62	
For 4,000 PSI Concrete, Add	0.71	
For 4,500 PSI Concrete, Add	0.94	
For 5,000 PSI Concrete, Add	1.42	
For White Facing, Add	4.72	
For Solid White Through Thickness, Add	4.72	
For Broken Rib Finish, Add	2.36	
For Fluted Surface, Add	2.36	
For Exposed Aggregate, Add	4.72	
For Sandblasting Of Surface, Add	2.36	
03 41 19 00-0055 SF 5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	29.09	
For 4,000 PSI Concrete, Add	0.87	
For 4,500 PSI Concrete, Add	1.16	
For 5,000 PSI Concrete, Add	1.75	
For White Facing, Add	5.82	
For Solid White Through Thickness, Add	5.82	
For Broken Rib Finish, Add	2.91	
For Fluted Surface, Add	2.91	
For Exposed Aggregate, Add	5.82	
For Sandblasting Of Surface, Add	2.91	
03 41 19 00-0056 SF 6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	34.81	
For 4,000 PSI Concrete, Add	1.04	
For 4,500 PSI Concrete, Add	1.39	
For 5,000 PSI Concrete, Add	2.09	
For White Facing, Add	6.96	
For Solid White Through Thickness, Add	6.96	
For Broken Rib Finish, Add	3.48	
For Fluted Surface, Add	3.48	
For Exposed Aggregate, Add	6.96	
For Sandblasting Of Surface, Add	3.48	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0057 SF 8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	46.00	
For 4,000 PSI Concrete, Add	1.38	
For 4,500 PSI Concrete, Add	1.84	
For 5,000 PSI Concrete, Add	2.76	
For White Facing, Add	9.20	
For Solid White Through Thickness, Add	9.20	
For Broken Rib Finish, Add	4.60	
For Fluted Surface, Add	4.60	
For Exposed Aggregate, Add	9.20	
For Sandblasting Of Surface, Add	4.60	
03 41 19 00-0058 Cladding Panels (03 41 19)		
03 41 19 00-0059 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0058)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0060 EA Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	285.49	228.36
03 41 19 00-0061 EA Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	319.35	255.46
03 41 19 00-0062 EA Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	362.29	289.82
03 41 19 00-0063 EA Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	387.20	309.76
03 41 19 00-0064 EA Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	415.79	332.61
03 41 19 00-0065 EA Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	452.20	361.74
03 41 19 00-0066 EA Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	491.69	393.40
03 41 19 00-0067 EA Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	543.44	434.73
03 41 19 00-0068 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0058)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0069 EA Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	319.79	255.80
03 41 19 00-0070 EA Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	357.71	286.16
03 41 19 00-0071 EA Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	405.82	324.62
03 41 19 00-0072 EA Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	433.72	346.97
03 41 19 00-0073 EA Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	465.74	372.61
03 41 19 00-0074 EA Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	506.53	405.19
03 41 19 00-0075 EA Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane.....	550.75	440.57
03 41 19 00-0076 EA Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	608.73	487.02
03 41 19 00-0077 EA Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	673.74	538.97
03 41 19 00-0078 EA Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	762.58	610.10
03 41 19 00-0079 EA Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	867.44	693.96
03 41 19 00-0080 EA Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,005.73	804.60
03 41 19 00-0081 Material Cost (03 41 19 00-0058)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 19 00-0082 SF 4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	23.62	
For 3,500 PSI Concrete, Add	0.47	
For 4,000 PSI Concrete, Add	0.71	
For 4,500 PSI Concrete, Add	0.94	
For 5,000 PSI Concrete, Add	1.42	
For White Facing, Add	4.72	
For Solid White Through Thickness, Add	4.72	
For Broken Rib Finish, Add	2.36	
For Fluted Surface, Add	2.36	
For Exposed Aggregate, Add	4.72	
For Sandblasting Of Surface, Add	2.36	
03 41 19 00-0083 SF 5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	29.09	
For 3,500 PSI Concrete, Add	0.58	
For 4,000 PSI Concrete, Add	0.87	
For 4,500 PSI Concrete, Add	1.16	
For 5,000 PSI Concrete, Add	1.75	
For White Facing, Add	5.82	
For Solid White Through Thickness, Add	5.82	
For Broken Rib Finish, Add	2.91	
For Fluted Surface, Add	2.91	
For Exposed Aggregate, Add	5.82	
For Sandblasting Of Surface, Add	2.91	
03 41 19 00-0084 SF 6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	34.81	
For 3,500 PSI Concrete, Add	0.70	
For 4,000 PSI Concrete, Add	1.04	
For 4,500 PSI Concrete, Add	1.39	
For 5,000 PSI Concrete, Add	2.09	
For White Facing, Add	6.96	
For Solid White Through Thickness, Add	6.96	
For Broken Rib Finish, Add	3.48	
For Fluted Surface, Add	3.48	
For Exposed Aggregate, Add	6.96	
For Sandblasting Of Surface, Add	3.48	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0085 SF 8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	46.00	
For 3,500 PSI Concrete, Add	0.92	
For 4,000 PSI Concrete, Add	1.38	
For 4,500 PSI Concrete, Add	1.84	
For 5,000 PSI Concrete, Add	2.76	
For White Facing, Add	9.20	
For Solid White Through Thickness, Add	9.20	
For Broken Rib Finish, Add	4.60	
For Fluted Surface, Add	4.60	
For Exposed Aggregate, Add	9.20	
For Sandblasting Of Surface, Add	4.60	
03 41 19 00-0086 Sandwich Panel (03 41 19)		
03 41 19 00-0087 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0086)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0088 EA Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	285.49	228.36
03 41 19 00-0089 EA Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	319.35	255.46
03 41 19 00-0090 EA Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	362.29	289.82
03 41 19 00-0091 EA Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	387.20	309.76
03 41 19 00-0092 EA Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	415.79	332.61
03 41 19 00-0093 EA Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	452.20	361.74
03 41 19 00-0094 EA Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	491.69	393.40
03 41 19 00-0095 EA Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	543.44	434.73
03 41 19 00-0096 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0086)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0097 EA Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	288.29	230.60
03 41 19 00-0098 EA Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	322.48	257.97
03 41 19 00-0099 EA Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	365.85	292.67
03 41 19 00-0100 EA Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	391.00	312.80
03 41 19 00-0101 EA Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	419.87	335.87
03 41 19 00-0102 EA Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	456.64	365.29
03 41 19 00-0103 EA Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	496.52	397.26
03 41 19 00-0104 EA Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	548.78	438.99
03 41 19 00-0105 EA Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	607.38	485.92
03 41 19 00-0106 EA Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	687.48	549.94
03 41 19 00-0107 EA Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	782.01	625.61
03 41 19 00-0108 EA Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	906.68	725.31
03 41 19 00-0109 Material Cost (03 41 19 00-0086)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations. Sandwich panel consists of 2.5" cladding panel, 2" fiber board insulation and the structural panel as defined.		
03 41 19 00-0110 SF 4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	32.32	
For 3,500 PSI Concrete, Add	0.65	
For 4,000 PSI Concrete, Add	0.97	
For 4,500 PSI Concrete, Add	1.29	
For 5,000 PSI Concrete, Add	1.94	
For White Facing, Add	6.46	
For Solid White Through Thickness, Add	6.46	
For Broken Rib Finish, Add	3.23	
For Fluted Surface, Add	3.23	
For Exposed Aggregate, Add	6.46	
For Sandblasting Of Surface, Add	3.23	
03 41 19 00-0111 SF 5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	38.04	
For 3,500 PSI Concrete, Add	0.76	
For 4,000 PSI Concrete, Add	1.14	
For 4,500 PSI Concrete, Add	1.52	
For 5,000 PSI Concrete, Add	2.28	
For White Facing, Add	7.61	
For Solid White Through Thickness, Add	7.61	
For Broken Rib Finish, Add	3.80	
For Fluted Surface, Add	3.80	
For Exposed Aggregate, Add	7.61	
For Sandblasting Of Surface, Add	3.80	
03 41 19 00-0112 SF 6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	44.26	
For 3,500 PSI Concrete, Add	0.89	
For 4,000 PSI Concrete, Add	1.33	
For 4,500 PSI Concrete, Add	1.77	
For 5,000 PSI Concrete, Add	2.66	
For White Facing, Add	8.85	
For Solid White Through Thickness, Add	8.85	
For Broken Rib Finish, Add	4.43	
For Fluted Surface, Add	4.43	
For Exposed Aggregate, Add	8.85	
For Sandblasting Of Surface, Add	4.43	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0113 SF 8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	55.95	
For 3,500 PSI Concrete, Add	1.12	
For 4,000 PSI Concrete, Add	1.68	
For 4,500 PSI Concrete, Add	2.24	
For 5,000 PSI Concrete, Add	3.36	
For White Facing, Add	11.19	
For Solid White Through Thickness, Add	11.19	
For Broken Rib Finish, Add	5.60	
For Fluted Surface, Add	5.60	
For Exposed Aggregate, Add	11.19	
For Sandblasting Of Surface, Add	5.60	
03 41 23 Precast Concrete Stairs (03 41)		
03 41 23 00-0001 Erection Costs Using A 50 Ton Hydraulic Crane (03 41 23)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 23 00-0002 EA Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	300.74	240.55
03 41 23 00-0003 EA Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	319.35	255.46
03 41 23 00-0004 EA Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	338.54	270.85
03 41 23 00-0005 EA Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	362.29	289.82
03 41 23 00-0006 EA Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	387.20	309.76
03 41 23 00-0007 EA Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	415.79	332.61
03 41 23 00-0008 EA Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	452.20	361.74
03 41 23 00-0009 EA Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	491.69	393.40
03 41 23 00-0010 Erection Costs Using A 90 Ton Crawler Crane (03 41 23)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 23 00-0011 EA Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane.....	300.74	240.55
03 41 23 00-0012 EA Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	319.35	255.46
03 41 23 00-0013 EA Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	338.54	270.85
03 41 23 00-0014 EA Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	362.29	289.82
03 41 23 00-0015 EA Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	387.20	309.76
03 41 23 00-0016 EA Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	415.79	332.61
03 41 23 00-0017 EA Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	452.20	361.74
03 41 23 00-0018 EA Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	491.69	393.40
03 41 23 00-0019 Material Cost (03 41 23)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast operations.		
03 41 23 00-0020 EA 3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser.....	498.31	
For 3,500 PSI Concrete, Add	65.03	
For 4,000 PSI Concrete, Add	122.19	
For 4,500 PSI Concrete, Add	179.59	
For 5,000 PSI Concrete, Add	244.32	
03 41 26 Precast Concrete Structural Sections (03 41)		
03 41 26 00-0001 Precast Beams, Girder And Joists (03 41 26)		
03 41 26 00-0002 Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0003 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane	379.21	303.41
03 41 26 00-0004 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane	405.82	324.62
03 41 26 00-0005 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane.....	433.72	346.97
03 41 26 00-0006 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane.....	465.74	372.61
03 41 26 00-0007 Erection Costs Using A 125 Ton Crawler Crane (03 41 26 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0008 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 110' Maximum Radius, 125 Ton Crane.....	475.93	380.71
03 41 26 00-0009 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 75' Maximum Radius, 125 Ton Crane.....	509.33	407.49
03 41 26 00-0010 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 55' Maximum Radius, 125 Ton Crane.....	544.34	435.47
03 41 26 00-0011 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 50' Maximum Radius, 125 Ton Crane.....	584.53	467.59
03 41 26 00-0012 EA Erect Precast Structural Sections, 20-25 Ton/Piece Beam, Girder, Joist; 40' Maximum Radius, 125 Ton Crane.....	635.72	508.64
03 41 26 00-0013 EA Erect Precast Structural Sections, 25-30 Ton/Piece Beam, Girder, Joist; 33' Maximum Radius, 125 Ton Crane.....	691.23	552.94
03 41 26 00-0014 EA Erect Precast Structural Sections, 30-35 Ton/Piece Beam, Girder, Joist; 30' Maximum Radius, 125 Ton Crane.....	763.98	611.18
03 41 26 00-0015 EA Erect Precast Structural Sections, 35-40 Ton/Piece Beam, Girder, Joist; 28' Maximum Radius, 125 Ton Crane.....	845.58	676.50
03 41 26 00-0016 Material Cost (03 41 26 00-0001)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 26 00-0017 1,000 LB/LF Live Load (03 41 26 00-0016)		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0018 LF Precast Structural Sections, 1,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	99.65	
For 3,500 PSI Concrete, Add	2.72	
For 4,000 PSI Concrete, Add	4.09	
For 4,500 PSI Concrete, Add	5.44	
For 5,000 PSI Concrete, Add	8.17	
03 41 26 00-0019 LF Precast Structural Sections, 1,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	124.56	
For 3,500 PSI Concrete, Add	3.40	
For 4,000 PSI Concrete, Add	5.11	
For 4,500 PSI Concrete, Add	6.80	
For 5,000 PSI Concrete, Add	10.21	
03 41 26 00-0020 LF Precast Structural Sections, 1,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	149.47	
For 3,500 PSI Concrete, Add	4.08	
For 4,000 PSI Concrete, Add	6.13	
For 4,500 PSI Concrete, Add	8.16	
For 5,000 PSI Concrete, Add	12.26	
03 41 26 00-0021 3,000 LB/LF Live Load (03 41 26 00-0016)		
03 41 26 00-0022 LF Precast Structural Sections, 3,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	124.56	
For 3,500 PSI Concrete, Add	3.40	
For 4,000 PSI Concrete, Add	5.11	
For 4,500 PSI Concrete, Add	6.80	
For 5,000 PSI Concrete, Add	10.21	
03 41 26 00-0023 LF Precast Structural Sections, 3,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	149.47	
For 3,500 PSI Concrete, Add	4.08	
For 4,000 PSI Concrete, Add	6.13	
For 4,500 PSI Concrete, Add	8.16	
For 5,000 PSI Concrete, Add	12.26	
03 41 26 00-0024 LF Precast Structural Sections, 3,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	199.30	
For 3,500 PSI Concrete, Add	5.44	
For 4,000 PSI Concrete, Add	8.17	
For 4,500 PSI Concrete, Add	10.88	
For 5,000 PSI Concrete, Add	16.34	
03 41 26 00-0025 5,000 LB/LF Live Load (03 41 26 00-0016)		
03 41 26 00-0026 LF Precast Structural Sections, 5,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	174.38	
For 3,500 PSI Concrete, Add	4.76	
For 4,000 PSI Concrete, Add	7.15	
For 4,500 PSI Concrete, Add	9.52	
For 5,000 PSI Concrete, Add	14.30	
03 41 26 00-0027 LF Precast Structural Sections, 5,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	199.30	
For 3,500 PSI Concrete, Add	5.44	
For 4,000 PSI Concrete, Add	8.17	
For 4,500 PSI Concrete, Add	10.88	
For 5,000 PSI Concrete, Add	16.34	
03 41 26 00-0028 LF Precast Structural Sections, 5,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	249.12	
For 3,500 PSI Concrete, Add	6.80	
For 4,000 PSI Concrete, Add	10.21	
For 4,500 PSI Concrete, Add	13.60	
For 5,000 PSI Concrete, Add	20.43	
03 41 26 00-0029 Precast Concrete Columns (03 41 26)		
03 41 26 00-0030 Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0029)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0031 EA Erect Precast Concrete Columns, 0-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	218.74	174.98
03 41 26 00-0032 EA Erect Precast Concrete Columns, 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	232.56	186.02
03 41 26 00-0033 EA Erect Precast Concrete Columns, 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	249.24	199.41
03 41 26 00-0034 EA Erect Precast Concrete Columns, 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	267.35	213.87
03 41 26 00-0035 EA Erect Precast Concrete Columns, 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	288.29	230.60
03 41 26 00-0036 EA Erect Precast Concrete Columns, 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	312.80	250.25
03 41 26 00-0037 EA Erect Precast Concrete Columns, 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	341.86	273.50
03 41 26 00-0038 Material Cost (03 41 26 00-0029)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.		
03 41 26 00-0039 12" x 12" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0040 CY 12" x 12" Precast Column, Tied, Average Reinforced 351 LB/CY	515.76	
For 3,500 PSI Concrete, Add	38.68	
For 4,000 PSI Concrete, Add	72.72	
For 4,500 PSI Concrete, Add	107.28	
For 5,000 PSI Concrete, Add	145.96	
03 41 26 00-0041 16" x 16" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0042 CY 16" x 16" Precast Column, Tied, Average Reinforced 368 LB/CY	528.49	
For 3,500 PSI Concrete, Add	39.64	
For 4,000 PSI Concrete, Add	74.52	
For 4,500 PSI Concrete, Add	109.93	
For 5,000 PSI Concrete, Add	149.56	

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

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 41 26 00-0043		20" x 20" Column, Square, Tied (03 41 26 00-0038)			
03 41 26 00-0044	CY	20" x 20" Precast Column, Tied, Average Reinforced 357 LB/CY	529.51		
		For 3,500 PSI Concrete, Add	39.71		
		For 4,000 PSI Concrete, Add	74.66		
		For 4,500 PSI Concrete, Add	110.14		
		For 5,000 PSI Concrete, Add	149.85		
03 41 26 00-0045		24" x 24" Column, Square, Tied (03 41 26 00-0038)			
03 41 26 00-0046	CY	24" x 24" Precast Column, Tied, Average Reinforced 365 LB/CY	529.51		
		For 3,500 PSI Concrete, Add	39.71		
		For 4,000 PSI Concrete, Add	74.66		
		For 4,500 PSI Concrete, Add	110.14		
		For 5,000 PSI Concrete, Add	149.85		
03 41 26 00-0047		28" x 28" Column, Square, Tied (03 41 26 00-0038)			
03 41 26 00-0048	CY	28" x 28" Precast Column, Tied, Average Reinforced 347 LB/CY	529.51		
		For 3,500 PSI Concrete, Add	39.71		
		For 4,000 PSI Concrete, Add	74.66		
		For 4,500 PSI Concrete, Add	110.14		
		For 5,000 PSI Concrete, Add	149.85		
03 41 26 00-0049		32" x 32" Column, Square, Tied (03 41 26 00-0038)			
03 41 26 00-0050	CY	32" x 32" Precast Column, Tied, Average Reinforced 351 LB/CY	528.49		
		For 3,500 PSI Concrete, Add	39.64		
		For 4,000 PSI Concrete, Add	74.52		
		For 4,500 PSI Concrete, Add	109.93		
		For 5,000 PSI Concrete, Add	149.56		
03 41 26 00-0051		36" x 36" Column, Square, Tied (03 41 26 00-0038)			
03 41 26 00-0052	CY	36" x 36" Precast Column, Tied, Average Reinforced 278 LB/CY	529.51		
		For 3,500 PSI Concrete, Add	39.71		
		For 4,000 PSI Concrete, Add	74.66		
		For 4,500 PSI Concrete, Add	110.14		
		For 5,000 PSI Concrete, Add	149.85		
03 41 33		Precast Structural Pretensioned Concrete (03 41)			
03 41 33 00-0001		Slabs, Roof And Floor Members (03 41 33)			
03 41 33 00-0002	SF	4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor	11.05	1.79	
03 41 33 00-0003	SF	6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor	13.65	1.79	
03 41 33 00-0004	SF	8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor	16.28	1.88	
03 41 33 00-0005	SF	10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor	18.92	1.97	
03 41 33 00-0006		Tee Members (03 41 33)			
03 41 33 00-0007		Multiple Tee, Roof And Floor (03 41 33 00-0006)			
03 41 33 00-0008	SF	Prestressed Multiple Tee, Roof And Floor Members	24.34	2.33	
03 41 33 00-0009		Double Tee Wall Member (03 41 33 00-0006)			
03 41 33 00-0010	SF	Prestressed Double Tee Wall Members Precast Concrete, <40' Span.....	35.35	6.34	
03 41 33 00-0011		Single Tee, Short Span, Roof Members (03 41 33 00-0006)			
03 41 33 00-0012	SF	Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span.....	28.94	3.84	
03 41 33 00-0013		Single Tee, Long Span, Roof Members (03 41 33 00-0006)			
03 41 33 00-0014	SF	Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span	34.36	3.30	
03 41 33 00-0015		Prestressed Concrete Items (03 41 33)			
03 41 33 00-0016		Prestressed Quad Tee (03 41 33 00-0015)			
03 41 33 00-0017	SF	Tees, Prestressed Quad Tee, Short Spans, Roof.....	17.34	0.71	
03 41 33 00-0018	SF	Tees, Prestressed Quad Tee, Short Spans, Floor	18.09	0.71	
03 41 33 00-0019		Prestressed Double Tee (03 41 33 00-0015)			
03 41 33 00-0020	SF	Tees, Double Tee, Floor Members , 60' Span	28.67	0.62	
03 41 33 00-0021	SF	Tees, Double Tee, Floor Members , 80' Span	39.42	0.62	
03 41 33 00-0022	SF	Tees, Double Tee, Roof Members, 30' Span.....	19.75	1.07	
03 41 33 00-0023	SF	Tees, Double Tee, Roof Members, 50' Span.....	30.35	0.71	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0024 SF Tees, Double Tee, Wall Members, Up To 55' High.....	21.49	1.42
03 41 33 00-0025 Prestressed Single Tee (03 41 33 00-0015)		
03 41 33 00-0026 SF Tees, Single Tee Roof Members, 40' Span	34.20	1.60
03 41 33 00-0027 SF Tees, Single Tee Roof Members, 80' Span	39.34	0.98
03 41 33 00-0028 SF Tees, Single Tee Roof Members, 100' Span	51.93	0.89
03 41 33 00-0029 SF Tees, Single Tee Roof Members, 120' Span	54.67	0.89
03 41 33 00-0030 Prestressed Double Tee Floor Members (03 41 33 00-0015)		
03 41 33 00-0031 EA Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'	8,792.76	257.20
03 41 33 00-0032 EA Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'	9,575.91	285.77
03 41 33 00-0033 EA Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'	15,973.94	321.50
03 41 33 00-0034 EA Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25'	3,481.49	233.89
03 41 33 00-0035 EA Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25'	4,557.15	257.20
03 41 33 00-0036 EA Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35'	5,802.92	257.20
03 41 33 00-0037 EA Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45'	6,461.48	285.77
03 41 33 00-0038 EA Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50'	8,250.17	321.50
03 41 33 00-0039 EA Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60'	14,785.79	367.57
03 41 33 00-0040 Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab (03 41 33)		
03 41 33 00-0041 SF Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete	18.29	
03 41 33 00-0042 SF Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete	19.05	
03 41 33 00-0043 SF Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete	20.00	
03 41 33 00-0044 SF Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete	20.70	
03 41 33 00-0045 SF Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete	22.20	
03 41 33 00-0046 Double And Single Tees (03 41 33)		
03 41 33 00-0047 Double And Single Tees With 16" Roof And Floor Loading (03 41 33 00-0046)		
03 41 33 00-0048 SF Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	22.19	
03 41 33 00-0049 SF Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	21.66	
03 41 33 00-0050 SF Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	20.44	
03 41 33 00-0051 SF Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	22.19	
03 41 33 00-0052 SF Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	22.10	
03 41 33 00-0053 SF Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	33.86	
03 41 33 00-0054 SF Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	33.09	
03 41 33 00-0055 SF Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	30.98	
03 41 33 00-0056 SF Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	33.86	
03 41 33 00-0057 SF Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	31.75	
03 41 33 00-0058 Double And Single Tees With 24" Roof And Floor Loading (03 41 33 00-0046)		
03 41 33 00-0059 SF Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	22.87	
03 41 33 00-0060 SF Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	22.33	
03 41 33 00-0061 SF Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	21.57	
03 41 33 00-0062 SF Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	22.87	
03 41 33 00-0063 SF Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	22.10	
03 41 33 00-0064 SF Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	34.75	
03 41 33 00-0065 SF Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	33.99	
03 41 33 00-0066 SF Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	32.78	
03 41 33 00-0067 SF Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	34.75	
03 41 33 00-0068 SF Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	33.77	
03 41 33 00-0069 Double And Single Tees With 32" Roof And Floor Loading (03 41 33 00-0046)		
03 41 33 00-0070 SF Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	24.12	
03 41 33 00-0071 SF Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	23.35	
03 41 33 00-0072 SF Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	22.57	
03 41 33 00-0073 SF Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	36.90	
03 41 33 00-0074 SF Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	35.68	
03 41 33 00-0075 SF Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	34.23	
03 48 Precast Concrete Specialties (03 40)		
03 48 16 Precast Concrete Splash Blocks (03 48)		
03 48 16 00-0001 Precast Concrete Splash Blocks (03 48 16)		
03 48 16 00-0002 EA Precast Concrete Splash Blocks, Standard Size	24.86	3.06
03 48 21 Precast Concrete Handrails (03 48)		
03 48 21 00-0001 Installation Cost (03 48 21)		
Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.		
03 48 21 00-0002 EA Install Precast Handrails, 0-2 Ton/Handrail	124.54	56.07
03 48 21 00-0003 EA Install Precast Handrails, Over 2 Ton/Handrail	149.36	67.19

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 21 00-0004 Material Cost (03 48 21)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast operations.		
03 48 21 00-0005 CY 4" Thick 3,000 PSI Concrete Precast Concrete Handrail	1,968.38	
For 3,500 PSI Concrete, Add	128.44	
For 4,000 PSI Concrete, Add	241.32	
For 4,500 PSI Concrete, Add	354.70	
For 5,000 PSI Concrete, Add	482.55	
03 48 21 00-0006 CY 5" Thick 3,000 PSI Concrete Precast Concrete Handrail	2,043.13	
For 3,500 PSI Concrete, Add	133.31	
For 4,000 PSI Concrete, Add	250.49	
For 4,500 PSI Concrete, Add	368.17	
For 5,000 PSI Concrete, Add	500.87	
03 48 21 00-0007 CY 6" Thick 3,000 PSI Concrete Precast Concrete Handrail	2,117.88	
For 3,500 PSI Concrete, Add	138.19	
For 4,000 PSI Concrete, Add	259.65	
For 4,500 PSI Concrete, Add	381.64	
For 5,000 PSI Concrete, Add	519.20	
03 48 21 00-0008 CY 8" Thick 3,000 PSI Concrete Precast Concrete Handrail	2,217.54	
For 3,500 PSI Concrete, Add	144.69	
For 4,000 PSI Concrete, Add	271.87	
For 4,500 PSI Concrete, Add	399.60	
For 5,000 PSI Concrete, Add	543.63	
03 48 22 Precast Concrete Sun Screen And Trellis (03 48)		
03 48 22 00-0001 Sun Screen Blades (03 48 22)		
03 48 22 00-0002 Installation Cost (03 48 22 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.		
03 48 22 00-0003 EA Install Precast Sun Screen Blade, 0-1 Ton/Each	62.27	28.03
03 48 22 00-0004 EA Install Precast Sun Screen Blade, 1-2 Ton/Each	74.81	33.64
03 48 22 00-0005 EA Install Precast Sun Screen Blade, 2-3 Ton/Each	93.48	42.09
03 48 22 00-0006 Material Cost (03 48 22 00-0001)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0007 CY 4" Thick 3,000 PSI Concrete Precast Sun Screen Blades	2,092.96	
For 3,500 PSI Concrete, Add	136.57	
For 4,000 PSI Concrete, Add	256.60	
For 4,500 PSI Concrete, Add	377.15	
For 5,000 PSI Concrete, Add	513.09	
03 48 22 00-0008 CY 5" Thick 3,000 PSI Concrete Precast Sun Screen Blades	2,167.71	
For 3,500 PSI Concrete, Add	141.44	
For 4,000 PSI Concrete, Add	265.76	
For 4,500 PSI Concrete, Add	390.62	
For 5,000 PSI Concrete, Add	531.41	
03 48 22 00-0009 CY 6" Thick 3,000 PSI Concrete Precast Sun Screen Blades	2,267.38	
For 3,500 PSI Concrete, Add	147.95	
For 4,000 PSI Concrete, Add	277.98	
For 4,500 PSI Concrete, Add	408.58	
For 5,000 PSI Concrete, Add	555.85	
03 48 22 00-0010 CY 8" Thick 3,000 PSI Concrete Precast Sun Screen Blades	2,367.04	
For 3,500 PSI Concrete, Add	154.45	
For 4,000 PSI Concrete, Add	290.20	
For 4,500 PSI Concrete, Add	426.54	
For 5,000 PSI Concrete, Add	580.28	
03 48 22 00-0011 Sun Screen/Trellis Units (03 48 22)		
03 48 22 00-0012 Installation Cost Using A 50 Ton Hydraulic Crane (03 48 22 00-0011)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.		
03 48 22 00-0013 EA Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane	285.49	128.45
03 48 22 00-0014 EA Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane	319.35	143.75
03 48 22 00-0015 EA Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane	362.29	163.02
03 48 22 00-0016 EA Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane	387.20	174.24
03 48 22 00-0017 Material Cost (03 48 22 00-0011)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0018 CY 4" Thick 3,000 PSI Concrete Precast Trellises Blades	2,416.87	
For 3,500 PSI Concrete, Add	157.70	
For 4,000 PSI Concrete, Add	296.31	
For 4,500 PSI Concrete, Add	435.52	
For 5,000 PSI Concrete, Add	592.50	
03 48 22 00-0019 CY 5" Thick 3,000 PSI Concrete Precast Trellises Blades	2,491.62	
For 3,500 PSI Concrete, Add	162.58	
For 4,000 PSI Concrete, Add	305.47	
For 4,500 PSI Concrete, Add	448.99	
For 5,000 PSI Concrete, Add	610.82	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 22 00-0020	CY		6" Thick 3,000 PSI Concrete Precast Trellises Blades For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	2,591.29 169.08 317.69 466.95 635.25	
03 48 22 00-0021	CY		8" Thick 3,000 PSI Concrete Precast Trellises Blades For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	2,715.87 177.21 332.97 489.40 665.80	
03 48 24 Precast Minaret Segments (03 48)					
03 48 24 00-0001			Installation Costs Using A 50 Ton Hydraulic Crane (03 48 24) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 24 00-0002			L - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0003	EA		Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	277.81	222.25
03 48 24 00-0004	EA		Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	311.32	249.07
03 48 24 00-0005	EA		Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	352.00	281.59
03 48 24 00-0006	EA		Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	375.47	300.37
03 48 24 00-0007			O - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0008	EA		Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	293.61	234.93
03 48 24 00-0009	EA		Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	329.54	263.58
03 48 24 00-0010	EA		Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	373.20	298.53
03 48 24 00-0011	EA		Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	399.69	319.73
03 48 24 00-0012			Platform Segment (03 48 24 00-0001)		
03 48 24 00-0013	EA		Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	563.20	450.60
03 48 24 00-0014	EA		Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	680.80	544.60
03 48 24 00-0015	EA		Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	755.51	604.42
03 48 24 00-0016	EA		Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	848.66	678.96
03 48 24 00-0017			Cap Segment (03 48 24 00-0001)		
03 48 24 00-0018	EA		Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	308.22	246.55
03 48 24 00-0019	EA		Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	344.18	275.30
03 48 24 00-0020	EA		Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	392.10	313.63
03 48 24 00-0021	EA		Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	418.59	334.83
03 48 24 00-0022			Installation Costs Using A 90 Ton Crawler Crane (03 48 24) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
03 48 24 00-0023			L - Shaped Segments (03 48 24 00-0022)		
03 48 24 00-0024	EA		Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	280.54	224.43
03 48 24 00-0025	EA		Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	314.37	251.52
03 48 24 00-0026	EA		Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	355.46	284.35
03 48 24 00-0027	EA		Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	379.16	303.32
03 48 24 00-0028			O - Shaped Segment (03 48 24 00-0022)		
03 48 24 00-0029	EA		Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	296.50	237.24
03 48 24 00-0030	EA		Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	332.77	266.17
03 48 24 00-0031	EA		Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	376.87	301.47
03 48 24 00-0032	EA		Install Minaret, O-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	403.62	322.87
03 48 24 00-0033			Platform Segment (03 48 24 00-0022)		
03 48 24 00-0034	EA		Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	453.33	362.66
03 48 24 00-0035	EA		Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	548.78	438.99
03 48 24 00-0036	EA		Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	607.38	485.92
03 48 24 00-0037	EA		Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	687.48	549.94
03 48 24 00-0038			Cap Segment (03 48 24 00-0022)		
03 48 24 00-0039	EA		Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	311.25	248.97
03 48 24 00-0040	EA		Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	347.56	278.00
03 48 24 00-0041	EA		Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	395.95	316.71
03 48 24 00-0042	EA		Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	422.70	338.12
03 48 24 00-0043			Material Costs (03 48 24) Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 24 00-0044	CY		Precast Concrete Minaret, L-Shaped Segments Including Post Tension Cost, 3,000 PSI Concrete	5,979.56	
03 48 24 00-0045	CY		Precast Concrete Minaret, O-Shaped Segments Including Post Tension Cost, 3,000 PSI Concrete	5,979.56	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 48 24 00-0046	CY	Precast Concrete Minaret, Platform Segments Including Post Tension Cost, 3,000 PSI Concrete	5,979.56	
03 48 24 00-0047	CY	Precast Concrete Minaret, Cap Segments Including Post Tension Cost, 3,000 PSI Concrete	5,979.56	

03 48 29 Precast Accessories (03 48)

Note: Includes installation labor, material and equipment.

03 48 29 00-0001		Bearing Pads For Precast Members (03 48 29)		
03 48 29 00-0002		Continuous 2" Wide Strips (03 48 29 00-0001)		
03 48 29 00-0003	LF	Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips	1.18	
		Note: For precast members		
03 48 29 00-0004	LF	Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips	1.74	
		Note: For precast members		
03 48 29 00-0005	LF	Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips	2.95	
		Note: For precast members		
03 48 29 00-0006	LF	Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips	4.18	
		Note: For precast members		
03 48 29 00-0007	LF	Bearing Pads, Continuous 2" Wide x 1" Thick Strips	5.46	
		Note: For precast members		
03 48 29 00-0008	LF	Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips	7.88	
		Note: For precast members		

03 48 29 00-0009		Bearing Pad Pipe Supports (03 48 29)		
03 48 29 00-0010	LF	4" x 4" Precast Pipe Support	9.68	

03 48 46 Precast Skylight Shells (03 48)

03 48 46 00-0001		Installation Cost Using A 90 Ton Crawler Crane (03 48 46)		
		Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 46 00-0002	EA	Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane	405.82	182.65
03 48 46 00-0003	EA	Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane	450.62	202.78
03 48 46 00-0004	EA	Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane	506.53	227.94

03 48 46 00-0005		Material Cost (03 48 46)		
		Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 46 00-0006	CY	3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius	2,501.66	

03 48 49 Precast Landings (03 48)

03 48 49 00-0001	SF	3" Thick Precast Landing	64.74	
03 48 49 00-0002	SF	4" Thick Precast Landing	75.37	
03 48 49 00-0003	SF	5" Thick Precast Landing	85.78	
03 48 49 00-0004	SF	6" Thick Precast Landing	98.94	

03 48 54 Precast Concrete Blocks (03 48)

03 48 54 00-0001		Precast Concrete Blocks (03 48 54)		
03 48 54 00-0002	EA	2' x 2' x 2' Precast Concrete Block	86.89	32.80
03 48 54 00-0003	EA	2' x 2' x 4' Precast Concrete Block	124.00	41.00
03 48 54 00-0004	EA	2' x 2' x 8' Precast Concrete Block	206.20	49.20

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

Note: Installed over new or existing concrete.

03 53 00 00-0001		Integral Topping Including Hard Trowel Finish (03 53)		
		Note: Using 1:1:2 mix.		
03 53 00 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.04	
03 53 00 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.32	
03 53 00 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.73	
03 53 00 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.24	
03 53 00 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.68	
03 53 00 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.08	
03 53 00 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.59	

03 53 00 00-0009		Granolithic Topping Laid After (03 53)		
		Note: Using 1:1:1-1/2 mix.		
03 53 00 00-0010	SF	1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	3.44	
03 53 00 00-0011	SF	1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	3.74	
03 53 00 00-0012	SF	2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.77	

03 54 Cast Underlayment (03 50)

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



		Concrete	03
		Cast Decks And Underlayment	03 50
		Cast Underlayment	03 54

03

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
03 54 16 Hydraulic Cement Underlayment (03 54)					
03 54 16 00-0001 Self Leveling Cementitious Underlayment For Floors (03 54 16)					
Note: Includes primer.					
03 54 16 00-0002	SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	1.96		
03 54 16 00-0003	SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	3.06		
03 54 16 00-0004	SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	5.26		
03 54 16 00-0005	SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	7.46		
03 54 16 00-0006	SF	1" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	9.65		
03 54 16 00-0007	SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	12.58		
03 54 16 00-0008	SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	14.05		
03 54 16 00-0009	SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	18.45		
03 60 Grouting (03)					
03 61 Cementitious Grouting (03 60)					
Note: 1 part cement to 3 parts sand by volume.					
03 61 16 Cementitious Flowable Grout (03 61)					
03 61 16 00-0001 Cementitious Flowable Grout (03 61 16)					
03 61 16 00-0002	CY	Cementitious Flowable Grout	388.84		
03 62 Non-Shrink Grouting (03 60)					
03 62 13 Non-Metallic Non-Shrink Grouting (03 62)					
03 62 13 00-0001 Fluid Type, Non-Metallic Non-Shrink Grouting For Bases (03 62 13)					
03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	21.73		
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	32.66		
03 62 13 00-0004 Non-Metallic Non-Shrink Grouting For Bases (03 62 13)					
03 62 13 00-0005	SF	1" Deep, Non-Metallic Non-Shrink Grout For Bases	33.51		
03 62 13 00-0006	SF	2" Deep, Non-Metallic Non-Shrink Grout For Bases	54.32		
03 62 13 00-0007 Non-Metallic Non-Shrink Grouting For Joints (03 62 13)					
03 62 13 00-0008 1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)					
03 62 13 00-0009	LF	4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	1.70		
03 62 13 00-0010	LF	6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.23		
03 62 13 00-0011	LF	8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.94		
03 62 13 00-0012 1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)					
03 62 13 00-0013	LF	4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	2.52		
03 62 13 00-0014	LF	6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.38		
03 62 13 00-0015	LF	8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	4.50		
03 62 16 Metallic Non-Shrink Grouting (03 62)					
03 62 16 00-0001 Metallic Non-Shrink Grouting For Bases (03 62 16)					
03 62 16 00-0002	SF	1" Deep, Metallic Non-Shrink Grout For Bases	27.91		
03 62 16 00-0003	SF	2" Deep, Metallic Non-Shrink Grout For Bases	43.47		
03 62 16 00-0004 Metallic Non-Shrink Grouting For Joints (03 62 16)					
03 62 16 00-0005 1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)					
03 62 16 00-0006	LF	4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	1.35		
03 62 16 00-0007	LF	6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	1.70		
03 62 16 00-0008	LF	8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.26		
03 62 16 00-0009 1" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)					
03 62 16 00-0010	LF	4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	1.84		
03 62 16 00-0011	LF	6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	2.33		
03 62 16 00-0012	LF	8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	3.12		
03 64 Injection Grouting (03 60)					
Note: By volume of void filled. Includes injection ports.					
03 64 23 Epoxy Injection Grouting (03 64)					
03 64 23 00-0001 Pressure Injected Epoxy Grout (03 64 23)					

03	03	Concrete
	03 60	Grouting
	03 64	Injection Grouting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 64 23 00-0002	CF	Pressure Injected Epoxy Grout	1,084.33	
		<i>For >4, Deduct</i>	-115.07	

03 64 26 Cementitious Injection Grouting (03 64)

03 64 26 00-0001		Pressure Injected Cementitious Grout (03 64 26)		
03 64 26 00-0002	CF	Pressure Injected Cementitious Grout	138.22	
		<i>For >4, Deduct</i>	-33.27	

03 80 Concrete Cutting And Boring (03)

03 81 Concrete Cutting (03 80)

03 81 13 Flat Concrete Sawing (03 81)

See CSI section 02 41 19 13-0046 for saw cutting.

03 81 16 Track Mounted Concrete Wall Sawing (03 81)

See CSI section 02 41 19 13-0046 for saw cutting.

03 82 Concrete Boring (03 80)

03 82 13 Concrete Core Drilling (03 82)

See CSI section 02 41 19 13-0069 for core drilling.

END OF SECTION 03



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

05 Metals

05 05 Common Work Results For Metals⁽⁰⁵⁾05 05 19 Post-Installed Concrete Anchors^(05 05)

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

05 05 19 00-0001 Concrete And Masonry Anchors^(05 05 19)05 05 19 00-0002 Expansion Anchors^(05 05 19 00-0001)

Note: Includes drilling.

05 05 19 00-0003 Wedge Expansion Bolt Anchors^(05 05 19 00-0002)05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt^(05 05 19 00-0003)

Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	9.61
	For >10 To 50, Deduct	-0.46
	For >50 To 100, Deduct	-0.93
	For >100, Deduct	-1.85
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	9.68
	For >10 To 50, Deduct	-0.46
	For >50 To 100, Deduct	-0.93
	For >100, Deduct	-1.85
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	9.98
	For >10 To 50, Deduct	-0.47
	For >50 To 100, Deduct	-0.95
	For >100, Deduct	-1.91
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	11.77
	For >10 To 50, Deduct	-0.56
	For >50 To 100, Deduct	-1.13
	For >100, Deduct	-2.25
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	11.83
	For >10 To 50, Deduct	-0.56
	For >50 To 100, Deduct	-1.13
	For >100, Deduct	-2.26
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	11.85
	For >10 To 50, Deduct	-0.56
	For >50 To 100, Deduct	-1.13
	For >100, Deduct	-2.26
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.07
	For >10 To 50, Deduct	-0.56
	For >50 To 100, Deduct	-1.13
	For >100, Deduct	-2.27
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.01
	For >10 To 50, Deduct	-0.79
	For >50 To 100, Deduct	-1.61
	For >100, Deduct	-3.22
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.05
	For >10 To 50, Deduct	-0.79
	For >50 To 100, Deduct	-1.61
	For >100, Deduct	-3.22
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.14
	For >10 To 50, Deduct	-0.79
	For >50 To 100, Deduct	-1.61
	For >100, Deduct	-3.23
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.39
	For >10 To 50, Deduct	-0.79
	For >50 To 100, Deduct	-1.62
	For >100, Deduct	-3.24
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.72
	For >10 To 50, Deduct	-0.79
	For >50 To 100, Deduct	-1.63
	For >100, Deduct	-3.25
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.96
	For >10 To 50, Deduct	-0.98
	For >50 To 100, Deduct	-2.01
	For >100, Deduct	-4.02
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.03
	For >10 To 50, Deduct	-0.98
	For >50 To 100, Deduct	-2.01
	For >100, Deduct	-4.03
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.18
	For >10 To 50, Deduct	-0.98
	For >50 To 100, Deduct	-2.02
	For >100, Deduct	-4.03
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.48
	For >10 To 50, Deduct	-0.98
	For >50 To 100, Deduct	-2.02
	For >100, Deduct	-4.05
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.77
	For >10 To 50, Deduct	-0.98
	For >50 To 100, Deduct	-2.03
	For >100, Deduct	-4.06

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	25.11	
			For >10 To 50, Deduct	-0.98	
			For >50 To 100, Deduct	-2.09	
			For >100, Deduct	-4.18	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	27.12	
			For >10 To 50, Deduct	-0.98	
			For >50 To 100, Deduct	-2.14	
			For >100, Deduct	-4.28	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.44	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.40	
			For >100, Deduct	-4.80	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.51	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.40	
			For >100, Deduct	-4.81	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.87	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.41	
			For >100, Deduct	-4.82	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	27.30	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.42	
			For >100, Deduct	-4.85	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	27.79	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.43	
			For >100, Deduct	-4.87	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	29.66	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.48	
			For >100, Deduct	-4.96	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.15	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.54	
			For >100, Deduct	-5.09	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.97	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.61	
			For >100, Deduct	-5.23	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.45	
			For >10 To 50, Deduct	-1.26	
			For >50 To 100, Deduct	-2.75	
			For >100, Deduct	-5.50	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	35.92	
			For >10 To 50, Deduct	-1.26	
			For >50 To 100, Deduct	-2.79	
			For >100, Deduct	-5.57	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	37.89	
			For >10 To 50, Deduct	-1.26	
			For >50 To 100, Deduct	-2.84	
			For >100, Deduct	-5.67	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	42.89	
			For >10 To 50, Deduct	-1.63	
			For >50 To 100, Deduct	-3.52	
			For >100, Deduct	-7.03	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	45.67	
			For >10 To 50, Deduct	-1.63	
			For >50 To 100, Deduct	-3.58	
			For >100, Deduct	-7.17	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	48.43	
			For >10 To 50, Deduct	-1.63	
			For >50 To 100, Deduct	-3.65	
			For >100, Deduct	-7.31	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	55.74	
			For >10 To 50, Deduct	-2.09	
			For >50 To 100, Deduct	-4.52	
			For >100, Deduct	-9.04	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	57.73	
			For >10 To 50, Deduct	-2.09	
			For >50 To 100, Deduct	-4.57	
			For >100, Deduct	-9.14	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	10.23	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.94	
			For >100, Deduct	-1.88	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	10.49	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.95	
			For >100, Deduct	-1.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043	EA		1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	10.90	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-0.98	
			For >100, Deduct	-1.95	
05 05 19 00-0044	EA		3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	12.96	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.31	
05 05 19 00-0045	EA		3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.18	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.32	
05 05 19 00-0046	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.34	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.17	
			For >100, Deduct	-2.33	
05 05 19 00-0047	EA		3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.54	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.20	
			For >100, Deduct	-2.39	
05 05 19 00-0048	EA		1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.68	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.68	
			For >100, Deduct	-3.35	
05 05 19 00-0049	EA		1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.09	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.69	
			For >100, Deduct	-3.37	
05 05 19 00-0050	EA		1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.33	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.69	
			For >100, Deduct	-3.39	
05 05 19 00-0051	EA		1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.43	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.72	
			For >100, Deduct	-3.44	
05 05 19 00-0052	EA		1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	23.07	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.76	
			For >100, Deduct	-3.52	
05 05 19 00-0053	EA		5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.38	
			For >10 To 50, Deduct	-0.98	
			For >50 To 100, Deduct	-2.15	
			For >100, Deduct	-4.29	
05 05 19 00-0054	EA		5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	28.45	
			For >10 To 50, Deduct	-0.98	
			For >50 To 100, Deduct	-2.17	
			For >100, Deduct	-4.35	
05 05 19 00-0055	EA		5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.61	
			For >10 To 50, Deduct	-0.98	
			For >50 To 100, Deduct	-2.20	
			For >100, Deduct	-4.41	
05 05 19 00-0056	EA		5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.15	
			For >10 To 50, Deduct	-0.98	
			For >50 To 100, Deduct	-2.24	
			For >100, Deduct	-4.48	
05 05 19 00-0057	EA		5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.90	
			For >10 To 50, Deduct	-0.98	
			For >50 To 100, Deduct	-2.41	
			For >100, Deduct	-4.82	
05 05 19 00-0058	EA		3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.67	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.56	
			For >100, Deduct	-5.11	
05 05 19 00-0059	EA		3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.84	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.61	
			For >100, Deduct	-5.22	
05 05 19 00-0060	EA		3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.70	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.66	
			For >100, Deduct	-5.32	
05 05 19 00-0061	EA		3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.93	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.66	
			For >100, Deduct	-5.33	
05 05 19 00-0062	EA		3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	38.67	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.71	
			For >100, Deduct	-5.41	
05 05 19 00-0063	EA		3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	43.19	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.82	
			For >100, Deduct	-5.64	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	49.57	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.98	
			For >100, Deduct	-5.96	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.36	
			For >10 To 50, Deduct	-1.26	
			For >50 To 100, Deduct	-3.15	
			For >100, Deduct	-6.29	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	72.08	
			For >10 To 50, Deduct	-1.63	
			For >50 To 100, Deduct	-4.24	
			For >100, Deduct	-8.49	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	81.51	
			For >10 To 50, Deduct	-1.63	
			For >50 To 100, Deduct	-4.48	
			For >100, Deduct	-8.96	
05 05 19 00-0068 316 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)					
Note: Includes nut and washer.					
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	10.46	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.95	
			For >100, Deduct	-1.89	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.00	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-0.98	
			For >100, Deduct	-1.96	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.67	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.17	
			For >100, Deduct	-2.35	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.05	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.18	
			For >100, Deduct	-2.37	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.15	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.37	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.96	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.46	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.41	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.72	
			For >100, Deduct	-3.44	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.46	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.75	
			For >100, Deduct	-3.49	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.37	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.79	
			For >100, Deduct	-3.59	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.85	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.81	
			For >100, Deduct	-3.61	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	33.23	
			For >10 To 50, Deduct	-0.98	
			For >50 To 100, Deduct	-2.29	
			For >100, Deduct	-4.59	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	33.81	
			For >10 To 50, Deduct	-0.98	
			For >50 To 100, Deduct	-2.31	
			For >100, Deduct	-4.62	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.85	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.76	
			For >100, Deduct	-5.52	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	43.24	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.82	
			For >100, Deduct	-5.64	
05 05 19 00-0083 Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)					
Note: Includes nut and washer.					
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	20.28	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.69	
			For >100, Deduct	-3.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085	EA	1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	21.47		
		For >10 To 50, Deduct	-0.79		
		For >50 To 100, Deduct	-1.72		
		For >100, Deduct	-3.44		
05 05 19 00-0086	EA	1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	22.65		
		For >10 To 50, Deduct	-0.79		
		For >50 To 100, Deduct	-1.75		
		For >100, Deduct	-3.50		
05 05 19 00-0087	EA	1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	23.24		
		For >10 To 50, Deduct	-0.79		
		For >50 To 100, Deduct	-1.77		
		For >100, Deduct	-3.53		
05 05 19 00-0088	EA	5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	28.02		
		For >10 To 50, Deduct	-0.98		
		For >50 To 100, Deduct	-2.16		
		For >100, Deduct	-4.33		
05 05 19 00-0089	EA	5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	26.60		
		For >10 To 50, Deduct	-0.98		
		For >50 To 100, Deduct	-2.13		
		For >100, Deduct	-4.26		
05 05 19 00-0090	EA	3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	36.46		
		For >10 To 50, Deduct	-1.16		
		For >50 To 100, Deduct	-2.65		
		For >100, Deduct	-5.30		
05 05 19 00-0091	EA	3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	37.76		
		For >10 To 50, Deduct	-1.16		
		For >50 To 100, Deduct	-2.68		
		For >100, Deduct	-5.37		
05 05 19 00-0092	EA	3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	44.16		
		For >10 To 50, Deduct	-1.16		
		For >50 To 100, Deduct	-2.84		
		For >100, Deduct	-5.69		
05 05 19 00-0093	EA	1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	46.21		
		For >10 To 50, Deduct	-1.63		
		For >50 To 100, Deduct	-3.60		
		For >100, Deduct	-7.20		
05 05 19 00-0094	EA	1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	49.89		
		For >10 To 50, Deduct	-1.63		
		For >50 To 100, Deduct	-3.69		
		For >100, Deduct	-7.38		
05 05 19 00-0095	EA	1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	53.54		
		For >10 To 50, Deduct	-1.63		
		For >50 To 100, Deduct	-3.78		
		For >100, Deduct	-7.56		
05 05 19 00-0096	Concrete Sleeve Anchors (05 05 19 00-0002)				
05 05 19 00-0097	Zinc Plated Steel, Concrete Sleeve Anchors (05 05 19 00-0096)				
	Note: Includes nut and washer.				
05 05 19 00-0098	EA	1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	9.68		
		For >10 To 50, Deduct	-0.47		
		For >50 To 100, Deduct	-0.94		
		For >100, Deduct	-1.88		
05 05 19 00-0099	EA	1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	9.78		
		For >10 To 50, Deduct	-0.47		
		For >50 To 100, Deduct	-0.94		
		For >100, Deduct	-1.89		
05 05 19 00-0100	EA	1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	9.92		
		For >10 To 50, Deduct	-0.47		
		For >50 To 100, Deduct	-0.95		
		For >100, Deduct	-1.90		
05 05 19 00-0101	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	10.20		
		For >10 To 50, Deduct	-0.49		
		For >50 To 100, Deduct	-0.99		
		For >100, Deduct	-1.98		
05 05 19 00-0102	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	10.30		
		For >10 To 50, Deduct	-0.49		
		For >50 To 100, Deduct	-0.99		
		For >100, Deduct	-1.99		
05 05 19 00-0103	EA	3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	11.56		
		For >10 To 50, Deduct	-0.56		
		For >50 To 100, Deduct	-1.12		
		For >100, Deduct	-2.24		
05 05 19 00-0104	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	11.74		
		For >10 To 50, Deduct	-0.56		
		For >50 To 100, Deduct	-1.13		
		For >100, Deduct	-2.25		
05 05 19 00-0105	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	11.91		
		For >10 To 50, Deduct	-0.56		
		For >50 To 100, Deduct	-1.13		
		For >100, Deduct	-2.26		
05 05 19 00-0106	EA	1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.60		
		For >10 To 50, Deduct	-0.79		
		For >50 To 100, Deduct	-1.60		
		For >100, Deduct	-3.20		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.83	
For >10 To 50, Deduct	-0.79	
For >50 To 100, Deduct	-1.60	
For >100, Deduct	-3.21	
05 05 19 00-0108 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.02	
For >10 To 50, Deduct	-0.79	
For >50 To 100, Deduct	-1.61	
For >100, Deduct	-3.22	
05 05 19 00-0109 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.26	
For >10 To 50, Deduct	-0.79	
For >50 To 100, Deduct	-1.61	
For >100, Deduct	-3.23	
05 05 19 00-0110 EA 5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	20.78	
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-1.98	
For >100, Deduct	-3.96	
05 05 19 00-0111 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.12	
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-1.99	
For >100, Deduct	-3.98	
05 05 19 00-0112 EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.38	
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-2.00	
For >100, Deduct	-3.99	
05 05 19 00-0113 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	22.12	
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-2.01	
For >100, Deduct	-4.03	
05 05 19 00-0114 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.34	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.37	
For >100, Deduct	-4.75	
05 05 19 00-0115 EA 3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.98	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.39	
For >100, Deduct	-4.78	
05 05 19 00-0116 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.55	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.40	
For >100, Deduct	-4.81	
05 05 19 00-0117 EA 3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.46	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.43	
For >100, Deduct	-4.85	
05 05 19 00-0118 304/18-8 Stainless Steel, Concrete Sleeve Anchors (05 05 19 00-0096)		
Note: Includes nut and washer.		
05 05 19 00-0119 EA 1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	10.70	
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-0.97	
For >100, Deduct	-1.93	
05 05 19 00-0120 EA 3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	13.66	
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.17	
For >100, Deduct	-2.35	
05 05 19 00-0121 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	14.68	
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.40	
05 05 19 00-0122 EA 1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	20.12	
For >10 To 50, Deduct	-0.79	
For >50 To 100, Deduct	-1.69	
For >100, Deduct	-3.37	
05 05 19 00-0123 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	21.95	
For >10 To 50, Deduct	-0.79	
For >50 To 100, Deduct	-1.73	
For >100, Deduct	-3.46	
05 05 19 00-0124 EA 5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	29.43	
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-2.20	
For >100, Deduct	-4.40	
05 05 19 00-0125 Concrete Strike Anchors (05 05 19 00-0002)		
Note: Includes nut and washer.		
05 05 19 00-0126 EA 1/4" Diameter x 1-3/4" Long Concrete Strike Anchor	10.20	
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-0.95	
For >100, Deduct	-1.91	
05 05 19 00-0127 EA 1/4" Diameter x 2-3/8" Long Concrete Strike Anchor	10.38	
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-0.96	
For >100, Deduct	-1.92	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128	EA		5/16" Diameter x 2-3/4" Long Concrete Strike Anchor	10.84	
			For >10 To 50, Deduct	-0.49	
			For >50 To 100, Deduct	-1.01	
			For >100, Deduct	-2.01	
05 05 19 00-0129	EA		5/16" Diameter x 4" Long Concrete Strike Anchor	11.58	
			For >10 To 50, Deduct	-0.49	
			For >50 To 100, Deduct	-1.02	
			For >100, Deduct	-2.05	
05 05 19 00-0130	EA		3/8" Diameter x 2-3/8" Long Concrete Strike Anchor	12.36	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.14	
			For >100, Deduct	-2.28	
05 05 19 00-0131	EA		3/8" Diameter x 3-1/2" Long Concrete Strike Anchor	12.92	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.31	
05 05 19 00-0132	EA		3/8" Diameter x 5" Long Concrete Strike Anchor	13.35	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.17	
			For >100, Deduct	-2.33	
05 05 19 00-0133	EA		1/2" Diameter x 2-3/4" Long Concrete Strike Anchor	17.98	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.63	
			For >100, Deduct	-3.26	
05 05 19 00-0134	EA		1/2" Diameter x 3-1/2" Long Concrete Strike Anchor	18.32	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.64	
			For >100, Deduct	-3.28	
05 05 19 00-0135	EA		1/2" Diameter x 4-3/4" Long Concrete Strike Anchor	19.29	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.67	
			For >100, Deduct	-3.33	
05 05 19 00-0136	EA		1/2" Diameter x 6" Long Concrete Strike Anchor	20.56	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.70	
			For >100, Deduct	-3.39	
05 05 19 00-0137	EA		5/8" Diameter x 4" Long Concrete Strike Anchor	23.71	
			For >10 To 50, Deduct	-0.97	
			For >50 To 100, Deduct	-2.05	
			For >100, Deduct	-4.11	
05 05 19 00-0138	EA		5/8" Diameter x 4-3/4" Long Concrete Strike Anchor	24.88	
			For >10 To 50, Deduct	-0.97	
			For >50 To 100, Deduct	-2.08	
			For >100, Deduct	-4.17	
05 05 19 00-0139	EA		5/8" Diameter x 6" Long Concrete Strike Anchor	25.91	
			For >10 To 50, Deduct	-0.97	
			For >50 To 100, Deduct	-2.11	
			For >100, Deduct	-4.22	
05 05 19 00-0140	EA		3/4" Diameter x 5" Long Concrete Strike Anchor	30.21	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.49	
			For >100, Deduct	-4.99	
05 05 19 00-0141	EA		3/4" Diameter x 6" Long Concrete Strike Anchor	31.30	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.52	
			For >100, Deduct	-5.04	
05 05 19 00-0142			Multi-Set Drop-In Anchors (05 05 19 00-0002)		
05 05 19 00-0143			Zinc Plated Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
			Note: Excludes bolt, nut and washer.		
05 05 19 00-0144	EA		1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	13.45	
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.31	
			For >100, Deduct	-2.62	
05 05 19 00-0145	EA		3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	16.45	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.60	
			For >100, Deduct	-3.20	
05 05 19 00-0146	EA		1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	19.97	
			For >10 To 50, Deduct	-0.93	
			For >50 To 100, Deduct	-1.90	
			For >100, Deduct	-3.80	
05 05 19 00-0147	EA		5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	22.56	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.10	
			For >100, Deduct	-4.20	
05 05 19 00-0148	EA		3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	26.86	
			For >10 To 50, Deduct	-1.17	
			For >50 To 100, Deduct	-2.42	
			For >100, Deduct	-4.84	
05 05 19 00-0149			304/18-8 Stainless Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
			Note: Excludes bolt, nut and washer.		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150	EA		1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	15.56	
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.36	
			For >100, Deduct	-2.73	
05 05 19 00-0151	EA		3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	20.44	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.70	
			For >100, Deduct	-3.40	
05 05 19 00-0152	EA		1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	25.21	
			For >10 To 50, Deduct	-0.93	
			For >50 To 100, Deduct	-2.03	
			For >100, Deduct	-4.06	
05 05 19 00-0153	EA		5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	31.00	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.31	
			For >100, Deduct	-4.63	
05 05 19 00-0154	EA		3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	41.37	
			For >10 To 50, Deduct	-1.17	
			For >50 To 100, Deduct	-2.78	
			For >100, Deduct	-5.57	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)					
Note: Excludes bolt, nut and washer.					
05 05 19 00-0156	EA		1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	9.84	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-0.95	
			For >100, Deduct	-1.89	
05 05 19 00-0157	EA		5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	10.49	
			For >10 To 50, Deduct	-0.49	
			For >50 To 100, Deduct	-1.00	
			For >100, Deduct	-1.99	
05 05 19 00-0158	EA		3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	11.87	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.13	
			For >100, Deduct	-2.26	
05 05 19 00-0159	EA		1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	17.26	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.61	
			For >100, Deduct	-3.23	
05 05 19 00-0160	EA		5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	23.57	
			For >10 To 50, Deduct	-0.97	
			For >50 To 100, Deduct	-2.05	
			For >100, Deduct	-4.10	
05 05 19 00-0161	EA		3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	28.38	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.45	
			For >100, Deduct	-4.90	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)					
Note: Excludes lag bolt and washer.					
05 05 19 00-0163	EA		1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	10.13	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-0.95	
			For >100, Deduct	-1.91	
05 05 19 00-0164	EA		5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	12.06	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.13	
			For >100, Deduct	-2.27	
05 05 19 00-0165	EA		3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	12.70	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.15	
			For >100, Deduct	-2.30	
05 05 19 00-0166	EA		1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	17.87	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.63	
			For >100, Deduct	-3.26	
05 05 19 00-0167	EA		5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	22.87	
			For >10 To 50, Deduct	-0.97	
			For >50 To 100, Deduct	-2.03	
			For >100, Deduct	-4.07	
05 05 19 00-0168	EA		3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	25.86	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.39	
			For >100, Deduct	-4.77	
05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)					
05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)					
Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.					



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171	EA		1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	12.33	
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.08	
			For >100, Deduct	-2.16	
05 05 19 00-0172	EA		5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	14.21	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.20	
			For >100, Deduct	-2.39	
05 05 19 00-0173	EA		3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	17.65	
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.49	
			For >100, Deduct	-2.98	
05 05 19 00-0174	EA		1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	20.59	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.70	
			For >100, Deduct	-3.40	
05 05 19 00-0175	EA		1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	21.69	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.73	
			For >100, Deduct	-3.45	
05 05 19 00-0176	EA		5/8" x 7" Long Chemically Adhered Anchor Rod.....	26.84	
			For >10 To 50, Deduct	-0.97	
			For >50 To 100, Deduct	-2.13	
			For >100, Deduct	-4.27	
05 05 19 00-0177	EA		3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	34.58	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.60	
			For >100, Deduct	-5.21	
05 05 19 00-0178	EA		7/8" x 10" Long Chemically Adhered Anchor Rod.....	40.67	
			For >10 To 50, Deduct	-1.26	
			For >50 To 100, Deduct	-2.90	
			For >100, Deduct	-5.80	
05 05 19 00-0179	EA		1" x 11-3/4" Long Chemically Adhered Anchor Rod	55.34	
			For >10 To 50, Deduct	-1.63	
			For >50 To 100, Deduct	-3.83	
			For >100, Deduct	-7.65	
05 05 19 00-0180	EA		1-1/4" x 14" Long Chemically Adhered Anchor Rod	78.68	
			For >10 To 50, Deduct	-2.05	
			For >50 To 100, Deduct	-5.05	
			For >100, Deduct	-10.09	
05 05 19 00-0181			Chemical Adhesives For Bolts, Dowels Or Threaded Rod (05 05 19 00-0169)		
			Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored.		
			Includes drilling. Excludes bolt, dowel or rod.		
05 05 19 00-0182	EA		5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	11.52	
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.13	
			For >100, Deduct	-2.26	
05 05 19 00-0183	EA		3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	14.43	
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.41	
			For >100, Deduct	-2.82	
05 05 19 00-0184	EA		1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	16.37	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.59	
			For >100, Deduct	-3.18	
05 05 19 00-0185	EA		5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	20.95	
			For >10 To 50, Deduct	-0.97	
			For >50 To 100, Deduct	-1.99	
			For >100, Deduct	-3.97	
05 05 19 00-0186	EA		3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	25.75	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.38	
			For >100, Deduct	-4.77	
05 05 19 00-0187	EA		7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	28.52	
			For >10 To 50, Deduct	-1.26	
			For >50 To 100, Deduct	-2.60	
			For >100, Deduct	-5.19	
05 05 19 00-0188	EA		1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	37.68	
			For >10 To 50, Deduct	-1.63	
			For >50 To 100, Deduct	-3.38	
			For >100, Deduct	-6.77	
05 05 19 00-0189	EA		1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	43.11	
			For >10 To 50, Deduct	-1.84	
			For >50 To 100, Deduct	-3.84	
			For >100, Deduct	-7.68	
05 05 19 00-0190	EA		1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	49.24	
			For >10 To 50, Deduct	-2.05	
			For >50 To 100, Deduct	-4.31	
			For >100, Deduct	-8.62	
05 05 19 00-0191	EA		1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	53.16	
			For >10 To 50, Deduct	-2.15	
			For >50 To 100, Deduct	-4.55	
			For >100, Deduct	-9.10	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA	1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	58.43	
		For >10 To 50, Deduct	-2.24	
		For >50 To 100, Deduct	-4.82	
		For >100, Deduct	-9.64	
05 05 19 00-0193	EA	1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	68.97	
		For >10 To 50, Deduct	-2.43	
		For >50 To 100, Deduct	-5.36	
		For >100, Deduct	-10.73	
05 05 19 00-0194	EA	2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	91.29	
		For >10 To 50, Deduct	-2.52	
		For >50 To 100, Deduct	-6.06	
		For >100, Deduct	-12.12	
05 05 19 00-0195 Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)				
05 05 19 00-0196	EA	Grout Concrete Anchor Bolt or Threaded Rod.....	3.74	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.36	
		For >100, Deduct	-0.73	
05 05 19 00-0197 Other Concrete And Masonry Anchors (05 05 19 00-0001)				
05 05 19 00-0198 Tapcon Masonry Screws (05 05 19 00-0197)				
Note: Includes drilling. Countersunk or hex head.				
05 05 19 00-0199	EA	3/16" x 1-1/4" Tapcon Masonry Screw.....	9.53	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.94	
		For >100, Deduct	-1.88	
05 05 19 00-0200	EA	3/16" x 2-1/4" Tapcon Masonry Screw.....	9.59	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.94	
		For >100, Deduct	-1.88	
05 05 19 00-0201	EA	3/16" x 3-1/4" Tapcon Masonry Screw.....	9.71	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.94	
		For >100, Deduct	-1.89	
05 05 19 00-0202	EA	1/4" x 1-1/4" Tapcon Masonry Screw.....	9.60	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.94	
		For >100, Deduct	-1.88	
05 05 19 00-0203	EA	1/4" x 2-1/4" Tapcon Masonry Screw.....	9.66	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.94	
		For >100, Deduct	-1.88	
05 05 19 00-0204	EA	1/4" x 3-1/4" Tapcon Masonry Screw.....	9.80	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.94	
		For >100, Deduct	-1.89	
05 05 19 00-0205 Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0197)				
Note: Includes drilling. Zinc plated.				
05 05 19 00-0206	EA	3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	10.07	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.95	
		For >100, Deduct	-1.90	
05 05 19 00-0207	EA	3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	10.33	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.96	
		For >100, Deduct	-1.92	
05 05 19 00-0208	EA	3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	10.40	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.96	
		For >100, Deduct	-1.92	
05 05 19 00-0209	EA	3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	10.53	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.96	
		For >100, Deduct	-1.93	
05 05 19 00-0210	EA	3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	10.64	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.97	
		For >100, Deduct	-1.93	
05 05 19 00-0211	EA	1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	10.87	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.97	
		For >100, Deduct	-1.94	
05 05 19 00-0212	EA	1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	11.16	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.98	
		For >100, Deduct	-1.96	
05 05 19 00-0213	EA	1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	11.42	
		For >10 To 50, Deduct	-0.47	
		For >50 To 100, Deduct	-0.99	
		For >100, Deduct	-1.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214	EA		1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	12.15	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.00	
			For >100, Deduct	-2.01	
05 05 19 00-0215	EA		5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	12.24	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.01	
			For >100, Deduct	-2.01	
05 05 19 00-0216	EA		5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	12.69	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.02	
			For >100, Deduct	-2.03	
05 05 19 00-0217	EA		5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	13.15	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.03	
			For >100, Deduct	-2.06	
05 05 19 00-0218	EA		5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	13.44	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.04	
			For >100, Deduct	-2.07	
05 05 19 00-0219	EA		3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	13.31	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.03	
			For >100, Deduct	-2.07	
05 05 19 00-0220	EA		3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	13.74	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.04	
			For >100, Deduct	-2.09	
05 05 19 00-0221	EA		3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	14.73	
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.07	
			For >100, Deduct	-2.14	
05 05 19 00-0222			Pin Bolt Drives (05 05 19 00-0197) Note: Includes drilling. Zinc plated.		
05 05 19 00-0223	EA		1/4" x 1" Pin Bolt Drive.....	5.91	
			For >10 To 50, Deduct	-0.28	
			For >50 To 100, Deduct	-0.57	
			For >100, Deduct	-1.14	
05 05 19 00-0224	EA		1/4" x 1-1/4" Pin Bolt Drive.....	5.91	
			For >10 To 50, Deduct	-0.28	
			For >50 To 100, Deduct	-0.57	
			For >100, Deduct	-1.14	
05 05 19 00-0225	EA		1/4" x 1-1/2" Pin Bolt Drive.....	5.95	
			For >10 To 50, Deduct	-0.28	
			For >50 To 100, Deduct	-0.57	
			For >100, Deduct	-1.14	
05 05 19 00-0226	EA		1/4" x 2" Pin Bolt Drive.....	5.97	
			For >10 To 50, Deduct	-0.28	
			For >50 To 100, Deduct	-0.57	
			For >100, Deduct	-1.14	
05 05 19 00-0227			Powder Actuated, Shot-In Place Anchors (05 05 19 00-0197)		
05 05 19 00-0228	EA		0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor	1.45	
			For >10 To 50, Deduct	-0.06	
			For >50 To 100, Deduct	-0.13	
			For >100, Deduct	-0.26	
05 05 19 00-0229	EA		0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor	1.54	
			For >10 To 50, Deduct	-0.07	
			For >50 To 100, Deduct	-0.14	
			For >100, Deduct	-0.27	
05 05 19 00-0230	EA		0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor	1.66	
			For >10 To 50, Deduct	-0.07	
			For >50 To 100, Deduct	-0.15	
			For >100, Deduct	-0.29	
05 05 19 00-0231	EA		0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	1.82	
			For >10 To 50, Deduct	-0.07	
			For >50 To 100, Deduct	-0.16	
			For >100, Deduct	-0.31	
05 05 19 00-0232	EA		0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	1.91	
			For >10 To 50, Deduct	-0.07	
			For >50 To 100, Deduct	-0.16	
			For >100, Deduct	-0.32	
05 05 19 00-0233			Powder Actuated, Shot-In Place Anchors With Exposed Thread (05 05 19 00-0197)		
05 05 19 00-0234	EA		0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....	1.70	
			For >10 To 50, Deduct	-0.07	
			For >50 To 100, Deduct	-0.14	
			For >100, Deduct	-0.28	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 05 19 00-0235	EA		0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor	2.26	
			<i>For >10 To 50, Deduct</i>	-0.08	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100, Deduct</i>	-0.35	

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

05 05 23 00-0002	EA		>1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate	26.64	
			<i>For Aluminum, Deduct</i>	-2.66	
			<i>For Stainless Steel, Add</i>	3.33	
05 05 23 00-0003	EA		>4" To 10" Diameter Drill Through Up To 1/4" Steel Plate	35.68	
			<i>For Aluminum, Deduct</i>	-3.57	
			<i>For Stainless Steel, Add</i>	4.46	
05 05 23 00-0004	EA		>1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate	35.68	
			<i>For Aluminum, Deduct</i>	-3.57	
			<i>For Stainless Steel, Add</i>	4.46	
05 05 23 00-0005	EA		Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate	23.79	
			<i>For Aluminum, Deduct</i>	-2.38	
			<i>For Stainless Steel, Add</i>	2.97	
05 05 23 00-0006	EA		>1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate	31.40	
			<i>For Aluminum, Deduct</i>	-3.14	
			<i>For Stainless Steel, Add</i>	3.93	
05 05 23 00-0007	EA		>7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate	38.06	

05 05 23 00-0008 Hex Bolts (05 05 23)

Note: For owner furnished materials or where requested by the owner. Excludes drilling through steel, concrete, brick or block. See CSI section 02 41 19 13-0266 for drilling into concrete, 02 41 19 13-0276 for drilling into brick or block, 02 41 19 13-0286 for drilling into wood or plastic, 05 05 23 00-0001 for drilling through steel.

05 05 23 00-0009 A307B Heavy Hex Bolts (05 05 23 00-0008)

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

05 05 23 00-0010 Plain Finish A307B Heavy Hex Bolts (05 05 23 00-0009)

05 05 23 00-0011	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	11.17	1.07
			<i>For >10 To 50, Deduct</i>	-0.45	
			<i>For >50 To 100, Deduct</i>	-0.95	
			<i>For >100, Deduct</i>	-1.90	
05 05 23 00-0012	EA		1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	12.46	1.07
			<i>For >10 To 50, Deduct</i>	-0.45	
			<i>For >50 To 100, Deduct</i>	-0.98	
			<i>For >100, Deduct</i>	-1.96	
05 05 23 00-0013	EA		5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	12.50	1.07
			<i>For >10 To 50, Deduct</i>	-0.45	
			<i>For >50 To 100, Deduct</i>	-0.98	
			<i>For >100, Deduct</i>	-1.97	
05 05 23 00-0014	EA		5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	14.95	1.23
			<i>For >10 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.14	
			<i>For >100, Deduct</i>	-2.28	
05 05 23 00-0015	EA		3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	14.66	1.07
			<i>For >10 To 50, Deduct</i>	-0.45	
			<i>For >50 To 100, Deduct</i>	-1.04	
			<i>For >100, Deduct</i>	-2.07	
05 05 23 00-0016	EA		3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	17.64	1.23
			<i>For >10 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.41	
05 05 23 00-0017	EA		3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	22.64	1.28
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.37	
			<i>For >100, Deduct</i>	-2.73	
05 05 23 00-0018	EA		3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	24.35	1.35
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.45	
			<i>For >100, Deduct</i>	-2.90	
05 05 23 00-0019	EA		7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	17.71	1.16
			<i>For >10 To 50, Deduct</i>	-0.48	
			<i>For >50 To 100, Deduct</i>	-1.17	
			<i>For >100, Deduct</i>	-2.34	
05 05 23 00-0020	EA		7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	21.51	1.28
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.34	
			<i>For >100, Deduct</i>	-2.67	
05 05 23 00-0021	EA		1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	25.51	1.35
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.48	
			<i>For >100, Deduct</i>	-2.96	
05 05 23 00-0022	EA		1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	37.06	1.41
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.81	
			<i>For >100, Deduct</i>	-3.62	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0023	EA		1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	43.45	1.60
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-2.08	
			For >100, Deduct	-4.17	
05 05 23 00-0024	EA		1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt.....	49.00	1.71
			For >10 To 50, Deduct	-0.71	
			For >50 To 100, Deduct	-2.29	
			For >100, Deduct	-4.59	
05 05 23 00-0025 Galvanized A307B Heavy Hex Bolts (05 05 23 00-0009)					
05 05 23 00-0026	EA		1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt.....	11.81	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-0.97	
			For >100, Deduct	-1.93	
05 05 23 00-0027	EA		1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt.....	12.89	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-0.99	
			For >100, Deduct	-1.99	
05 05 23 00-0028	EA		5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	14.06	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-1.02	
			For >100, Deduct	-2.04	
05 05 23 00-0029	EA		5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	16.51	1.23
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.18	
			For >100, Deduct	-2.36	
05 05 23 00-0030	EA		3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	16.44	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-1.08	
			For >100, Deduct	-2.16	
05 05 23 00-0031	EA		3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	20.92	1.23
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.29	
			For >100, Deduct	-2.58	
05 05 23 00-0032	EA		3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	28.29	1.28
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.51	
			For >100, Deduct	-3.01	
05 05 23 00-0033	EA		3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt.....	33.49	1.35
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.68	
			For >100, Deduct	-3.36	
05 05 23 00-0034	EA		7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	22.35	1.16
			For >10 To 50, Deduct	-0.48	
			For >50 To 100, Deduct	-1.29	
			For >100, Deduct	-2.57	
05 05 23 00-0035	EA		7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	26.74	1.28
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.47	
			For >100, Deduct	-2.93	
05 05 23 00-0036	EA		1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	32.26	1.35
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.65	
			For >100, Deduct	-3.29	
05 05 23 00-0037	EA		1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	49.29	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-2.12	
			For >100, Deduct	-4.23	
05 05 23 00-0038	EA		1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	48.93	1.60
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-2.22	
			For >100, Deduct	-4.44	
05 05 23 00-0039	EA		1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	61.68	1.71
			For >10 To 50, Deduct	-0.71	
			For >50 To 100, Deduct	-2.61	
			For >100, Deduct	-5.22	
05 05 23 00-0040 A325 High Strength Structural Bolts (05 05 23 00-0008)					
Note: Includes A325 heavy hex nut and two structural washers.					
05 05 23 00-0041 Plain Finish A325 High Strength Structural Bolts (05 05 23 00-0040)					
Note: Includes A325 heavy hex nut and structural washer.					
05 05 23 00-0042	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	10.87	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-0.94	
			For >100, Deduct	-1.88	
05 05 23 00-0043	EA		1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	11.16	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-0.95	
			For >100, Deduct	-1.90	
05 05 23 00-0044	EA		5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	12.07	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-0.97	
			For >100, Deduct	-1.94	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0045	EA		5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	14.98	1.23
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.14	
			For >100, Deduct	-2.28	
05 05 23 00-0046	EA		5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	17.60	1.28
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.24	
			For >100, Deduct	-2.48	
05 05 23 00-0047	EA		3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	13.34	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-1.00	
			For >100, Deduct	-2.01	
05 05 23 00-0048	EA		3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	16.33	1.23
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.17	
			For >100, Deduct	-2.35	
05 05 23 00-0049	EA		3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	18.79	1.28
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.27	
			For >100, Deduct	-2.54	
05 05 23 00-0050	EA		3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	23.55	1.35
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.43	
			For >100, Deduct	-2.86	
05 05 23 00-0051	EA		7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.63	1.16
			For >10 To 50, Deduct	-0.48	
			For >50 To 100, Deduct	-1.12	
			For >100, Deduct	-2.24	
05 05 23 00-0052	EA		7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	19.29	1.28
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.28	
			For >100, Deduct	-2.56	
05 05 23 00-0053	EA		7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	22.23	1.35
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.40	
			For >100, Deduct	-2.79	
05 05 23 00-0054	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	24.18	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.49	
			For >100, Deduct	-2.98	
05 05 23 00-0055	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	17.42	1.21
			For >10 To 50, Deduct	-0.50	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.38	
05 05 23 00-0056	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	21.16	1.35
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.37	
			For >100, Deduct	-2.74	
05 05 23 00-0057	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	24.79	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.50	
			For >100, Deduct	-3.01	
05 05 23 00-0058	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	32.32	1.51
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.75	
			For >100, Deduct	-3.50	
05 05 23 00-0059	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	30.73	1.51
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.71	
			For >100, Deduct	-3.42	
05 05 23 00-0060	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	35.04	1.60
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-1.87	
			For >100, Deduct	-3.75	
05 05 23 00-0061	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	41.43	1.71
			For >10 To 50, Deduct	-0.71	
			For >50 To 100, Deduct	-2.10	
			For >100, Deduct	-4.21	
05 05 23 00-0062	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	49.00	1.83
			For >10 To 50, Deduct	-0.76	
			For >50 To 100, Deduct	-2.37	
			For >100, Deduct	-4.73	
05 05 23 00-0063			Galvanized A325 High Strength Structural Bolts (05 05 23 00-0040)		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0064	EA		1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	11.44	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-0.96	
			For >100, Deduct	-1.91	
05 05 23 00-0065	EA		1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	11.65	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-0.96	
			For >100, Deduct	-1.92	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0066	EA		5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	13.27	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-1.00	
			For >100, Deduct	-2.00	
05 05 23 00-0067	EA		5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	15.83	1.23
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.32	
05 05 23 00-0068	EA		5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	16.78	1.28
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.22	
			For >100, Deduct	-2.44	
05 05 23 00-0069	EA		3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	13.89	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-1.02	
			For >100, Deduct	-2.04	
05 05 23 00-0070	EA		3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	17.02	1.23
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.38	
05 05 23 00-0071	EA		3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	19.87	1.28
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.30	
			For >100, Deduct	-2.59	
05 05 23 00-0072	EA		3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	26.11	1.35
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.49	
			For >100, Deduct	-2.99	
05 05 23 00-0073	EA		7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	18.94	1.16
			For >10 To 50, Deduct	-0.48	
			For >50 To 100, Deduct	-1.20	
			For >100, Deduct	-2.40	
05 05 23 00-0074	EA		7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	21.25	1.28
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.33	
			For >100, Deduct	-2.66	
05 05 23 00-0075	EA		7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	24.61	1.35
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.46	
			For >100, Deduct	-2.91	
05 05 23 00-0076	EA		7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	31.31	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.67	
			For >100, Deduct	-3.33	
05 05 23 00-0077	EA		1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	20.00	1.21
			For >10 To 50, Deduct	-0.50	
			For >50 To 100, Deduct	-1.26	
			For >100, Deduct	-2.51	
05 05 23 00-0078	EA		1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	27.06	1.35
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.52	
			For >100, Deduct	-3.03	
05 05 23 00-0079	EA		1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	29.74	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.63	
			For >100, Deduct	-3.26	
05 05 23 00-0080	EA		1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	38.42	1.51
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.90	
			For >100, Deduct	-3.80	
05 05 23 00-0081	EA		1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	38.17	1.51
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.89	
			For >100, Deduct	-3.79	
05 05 23 00-0082	EA		1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	40.73	1.60
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-2.02	
			For >100, Deduct	-4.03	
05 05 23 00-0083	EA		1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	47.95	1.71
			For >10 To 50, Deduct	-0.71	
			For >50 To 100, Deduct	-2.27	
			For >100, Deduct	-4.54	
05 05 23 00-0084	EA		1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	55.80	1.83
			For >10 To 50, Deduct	-0.76	
			For >50 To 100, Deduct	-2.54	
			For >100, Deduct	-5.07	
05 05 23 00-0085			A490 High Strength Structural Bolts (05 05 23 00-0088)		
			Note: Includes A490 heavy hex nut and two structural washers.		
05 05 23 00-0086			Plain Finish A490 High Strength Structural Bolts (05 05 23 00-0085)		
05 05 23 00-0087	EA		5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	12.52	1.07
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-0.98	
			For >100, Deduct	-1.97	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0088 EA 5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	18.07	1.23
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.22	
For >100, Deduct	-2.44	
05 05 23 00-0089 EA 5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	19.37	1.28
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.28	
For >100, Deduct	-2.57	
05 05 23 00-0090 EA 3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	14.27	1.07
For >10 To 50, Deduct	-0.45	
For >50 To 100, Deduct	-1.03	
For >100, Deduct	-2.05	
05 05 23 00-0091 EA 3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	17.39	1.23
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.40	
05 05 23 00-0092 EA 3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	20.51	1.28
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.31	
For >100, Deduct	-2.62	
05 05 23 00-0093 EA 3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	26.89	1.35
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.51	
For >100, Deduct	-3.03	
05 05 23 00-0094 EA 7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	16.71	1.16
For >10 To 50, Deduct	-0.48	
For >50 To 100, Deduct	-1.14	
For >100, Deduct	-2.29	
05 05 23 00-0095 EA 7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	19.63	1.28
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.29	
For >100, Deduct	-2.58	
05 05 23 00-0096 EA 7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	29.21	1.35
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.57	
For >100, Deduct	-3.14	
05 05 23 00-0097 EA 1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	19.94	1.21
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.25	
For >100, Deduct	-2.51	
05 05 23 00-0098 EA 1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	23.99	1.35
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.44	
For >100, Deduct	-2.88	
05 05 23 00-0099 EA 1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	27.84	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.58	
For >100, Deduct	-3.16	
05 05 23 00-0100 EA 1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	35.23	1.51
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.82	
For >100, Deduct	-3.64	
05 05 23 00-0101 EA 1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	45.79	1.60
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-2.14	
For >100, Deduct	-4.29	
05 05 23 00-0102 EA 1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	48.12	1.71
For >10 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-2.27	
For >100, Deduct	-4.54	
05 05 23 00-0103 EA 1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	50.15	1.83
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-2.39	
For >100, Deduct	-4.79	
05 05 23 00-0104 Hex Head Bolts (05 05 23 00-0008)		
05 05 23 00-0105 Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0104)		
05 05 23 00-0106 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0105)		
05 05 23 00-0107 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.93	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0108 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.95	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0109 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.03	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0110	EA	1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.06	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0111	EA	1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.28	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0112	EA	1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.31	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0113	EA	1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.42	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0114	EA	1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.60	
		For >100 To 250, Deduct	-1.23	
		For >250 To 500, Deduct	-1.54	
		For >500, Deduct	-1.85	
05 05 23 00-0115	EA	1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.63	
		For >100 To 250, Deduct	-1.23	
		For >250 To 500, Deduct	-1.54	
		For >500, Deduct	-1.85	
05 05 23 00-0116	EA	1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.81	
		For >100 To 250, Deduct	-1.23	
		For >250 To 500, Deduct	-1.54	
		For >500, Deduct	-1.85	
05 05 23 00-0117	EA	1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.09	
		For >100 To 250, Deduct	-1.27	
		For >250 To 500, Deduct	-1.58	
		For >500, Deduct	-1.90	
05 05 23 00-0118	EA	1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.22	
		For >100 To 250, Deduct	-1.27	
		For >250 To 500, Deduct	-1.58	
		For >500, Deduct	-1.90	
05 05 23 00-0119	EA	1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.40	
		For >100 To 250, Deduct	-1.27	
		For >250 To 500, Deduct	-1.58	
		For >500, Deduct	-1.90	
05 05 23 00-0120	EA	1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.96	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0121	EA	1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.23	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0122	EA	1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.30	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0123		5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
		23 00-0105)		
05 05 23 00-0124	EA	5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.99	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0125	EA	5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.02	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0126	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.08	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0127	EA	5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.13	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0128	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.36	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0129	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.47	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0130	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.52	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0131 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.80	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0132 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.96	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0133 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.02	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0134 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.24	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0135 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.30	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0136 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.92	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0137 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.41	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0138 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.68	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0139 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.93	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0140 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
23 00-0105)		
05 05 23 00-0141 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.07	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0142 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.09	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0143 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.18	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0144 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.26	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0145 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.50	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0146 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.64	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0147 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.79	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0148 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.10	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0149 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.29	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0150 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.39	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0151 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.74	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0152	EA		3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.85	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0153	EA		3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.92	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0154	EA		3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.15	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0155	EA		3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.26	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0156	EA		3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.43	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0157 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05					
			23 00-0105)		
05 05 23 00-0158	EA		7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.26	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0159	EA		7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.37	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0160	EA		7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.39	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0161	EA		7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.72	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0162	EA		7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.89	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0163	EA		7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.04	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0164	EA		7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.59	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0165	EA		7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.69	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0166	EA		7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.91	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0167	EA		7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.41	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0168	EA		7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.52	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0169	EA		7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.78	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0170	EA		7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.07	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	
05 05 23 00-0171	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.30	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	
05 05 23 00-0172	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.78	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0173 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05)		
05 05 23 00-0174 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.16	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0175 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.30	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0176 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.44	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0177 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.77	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0178 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.91	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0179 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.06	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0180 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0181 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.59	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0182 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.88	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0183 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.08	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0184 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.11	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0185 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0186 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.76	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0187 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.91	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0188 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.34	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0189 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.71	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0190 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.86	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0191 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.47	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0192 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.64	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0193 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05)		
05 05 23 00-0194 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.31	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0195	EA		9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.50	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0196	EA		9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.55	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0197	EA		9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.34	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0198	EA		9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.59	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0199	EA		9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.68	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0200	EA		9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.88	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0201	EA		9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.94	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0202	EA		9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0203	EA		9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0204	EA		9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.42	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0205	EA		9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.61	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0206	EA		9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.98	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	
05 05 23 00-0207	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.21	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	
05 05 23 00-0208	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.43	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	
05 05 23 00-0209	EA		9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.79	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0210	EA		9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.05	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0211	EA		9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.23	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0212	EA		9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.50	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0213			5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0105)		
05 05 23 00-0214	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.56	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0215	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.68	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0216 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.85	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0217 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.25	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0218 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.49	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0219 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.80	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0220 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.36	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0221 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.84	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0222 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.20	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0223 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.52	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0224 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.57	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0225 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.19	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0226 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.72	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.04	
For >500, Deduct	-2.45	
05 05 23 00-0227 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.22	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.04	
For >500, Deduct	-2.45	
05 05 23 00-0228 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.80	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.04	
For >500, Deduct	-2.45	
05 05 23 00-0229 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.59	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0230 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.15	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0231 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.74	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0232 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.19	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0233 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
23 00-0105)		
05 05 23 00-0234 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.98	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0235 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.24	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0236 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.48	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0237	EA	3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.94	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0238	EA	3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.31	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0239	EA	3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.63	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0240	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.16	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0241	EA	3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.61	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0242	EA	3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.96	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0243	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.86	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0244	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.15	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0245	EA	3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.71	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0246	EA	3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.92	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-0247	EA	3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.22	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-0248	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.82	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-0249	EA	3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.78	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0250	EA	3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.38	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0251	EA	3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.19	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0252	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.97	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0253		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
		23 00-0105)		
05 05 23 00-0254	EA	7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.17	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0255	EA	7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.39	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0256	EA	7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.49	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0257	EA	7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.97	
		For >100 To 250, Deduct	-1.70	
		For >250 To 500, Deduct	-2.13	
		For >500, Deduct	-2.55	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0258 EA 7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.56	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0259 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.25	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0260 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.99	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0261 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.00	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0262 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.55	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0263 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.16	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0264 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.49	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0265 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.29	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0266 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.25	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0267 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.06	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0268 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.85	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0269 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.76	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0270 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.60	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0271 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.37	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0272 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.20	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0273 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0105)		
05 05 23 00-0274 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.15	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0275 EA 1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.60	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0276 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.69	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0277 EA 1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.84	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0278 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.89	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0279	EA	1"	Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.13	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.60	
05 05 23 00-0280	EA	1"	Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.13	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.60	
05 05 23 00-0281	EA	1"	Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.17	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.60	
05 05 23 00-0282	EA	1"	Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.87	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0283	EA	1"	Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.36	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0284	EA	1"	Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.24	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0285	EA	1"	Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.29	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.25	
			For >500, Deduct	-2.70	
05 05 23 00-0286	EA	1"	Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.15	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.25	
			For >500, Deduct	-2.70	
05 05 23 00-0287	EA	1"	Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.05	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.25	
			For >500, Deduct	-2.70	
05 05 23 00-0288	EA	1"	Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.94	
			For >100 To 250, Deduct	-1.83	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-2.75	
05 05 23 00-0289	EA	1"	Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.95	
			For >100 To 250, Deduct	-1.83	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-2.75	
05 05 23 00-0290	EA	1"	Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.86	
			For >100 To 250, Deduct	-1.83	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-2.75	
05 05 23 00-0291	EA	1"	Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.77	
			For >100 To 250, Deduct	-1.83	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-2.75	
05 05 23 00-0292			Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0104)		
05 05 23 00-0293			1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0294	EA	1/4"	Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	5.98	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0295	EA	1/4"	Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.03	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0296	EA	1/4"	Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.06	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0297	EA	1/4"	Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.14	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0298	EA	1/4"	Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.39	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-1.80	
05 05 23 00-0299	EA	1/4"	Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.52	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-1.80	
05 05 23 00-0300	EA	1/4"	Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.67	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-1.80	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0301 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.96	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0302 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.15	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0303 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.27	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0304 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.56	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0305 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.68	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0306 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.80	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0307 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.13	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0308 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.30	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0309 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.47	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0310 5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0311 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.07	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0312 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.10	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0313 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.16	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0314 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.26	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0315 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.51	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0316 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.64	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0317 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.87	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0318 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.16	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0319 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.34	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0320 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.51	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0321 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.00	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0322	EA		5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.06	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0323	EA		5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.29	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0324	EA		5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.76	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0325	EA		5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.07	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0326	EA		5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.37	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0327			3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0328	EA		3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.12	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0329	EA		3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.15	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0330	EA		3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.25	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0331	EA		3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.36	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0332	EA		3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.65	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-1.80	
05 05 23 00-0333	EA		3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.78	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-1.80	
05 05 23 00-0334	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.98	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-1.80	
05 05 23 00-0335	EA		3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.37	
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.54	
			For >500, Deduct	-1.85	
05 05 23 00-0336	EA		3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.84	
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.54	
			For >500, Deduct	-1.85	
05 05 23 00-0337	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.05	
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.54	
			For >500, Deduct	-1.85	
05 05 23 00-0338	EA		3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.50	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0339	EA		3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.70	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0340	EA		3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.06	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0341	EA		3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.50	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0342	EA		3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.97	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0343 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 10.35 For >100 To 250, Deduct -1.30 For >250 To 500, Deduct -1.63 For >500, Deduct -1.95		
05 05 23 00-0344 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0345 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 7.18 For >100 To 250, Deduct -1.33 For >250 To 500, Deduct -1.67 For >500, Deduct -2.00		
05 05 23 00-0346 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 7.27 For >100 To 250, Deduct -1.33 For >250 To 500, Deduct -1.67 For >500, Deduct -2.00		
05 05 23 00-0347 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 7.51 For >100 To 250, Deduct -1.33 For >250 To 500, Deduct -1.67 For >500, Deduct -2.00		
05 05 23 00-0348 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 7.87 For >100 To 250, Deduct -1.37 For >250 To 500, Deduct -1.71 For >500, Deduct -2.05		
05 05 23 00-0349 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 8.05 For >100 To 250, Deduct -1.37 For >250 To 500, Deduct -1.71 For >500, Deduct -2.05		
05 05 23 00-0350 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 8.21 For >100 To 250, Deduct -1.37 For >250 To 500, Deduct -1.71 For >500, Deduct -2.05		
05 05 23 00-0351 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 8.60 For >100 To 250, Deduct -1.40 For >250 To 500, Deduct -1.75 For >500, Deduct -2.10		
05 05 23 00-0352 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 9.53 For >100 To 250, Deduct -1.40 For >250 To 500, Deduct -1.75 For >500, Deduct -2.10		
05 05 23 00-0353 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 9.95 For >100 To 250, Deduct -1.40 For >250 To 500, Deduct -1.75 For >500, Deduct -2.10		
05 05 23 00-0354 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 10.24 For >100 To 250, Deduct -1.43 For >250 To 500, Deduct -1.79 For >500, Deduct -2.15		
05 05 23 00-0355 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 10.43 For >100 To 250, Deduct -1.43 For >250 To 500, Deduct -1.79 For >500, Deduct -2.15		
05 05 23 00-0356 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 10.63 For >100 To 250, Deduct -1.43 For >250 To 500, Deduct -1.79 For >500, Deduct -2.15		
05 05 23 00-0357 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 11.07 For >100 To 250, Deduct -1.47 For >250 To 500, Deduct -1.84 For >500, Deduct -2.20		
05 05 23 00-0358 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 11.34 For >100 To 250, Deduct -1.47 For >250 To 500, Deduct -1.84 For >500, Deduct -2.20		
05 05 23 00-0359 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 11.62 For >100 To 250, Deduct -1.47 For >250 To 500, Deduct -1.84 For >500, Deduct -2.20		
05 05 23 00-0360 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0361 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 7.30 For >100 To 250, Deduct -1.33 For >250 To 500, Deduct -1.67 For >500, Deduct -2.00		
05 05 23 00-0362 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 7.43 For >100 To 250, Deduct -1.33 For >250 To 500, Deduct -1.67 For >500, Deduct -2.00		
05 05 23 00-0363 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt 7.57 For >100 To 250, Deduct -1.33 For >250 To 500, Deduct -1.67 For >500, Deduct -2.00		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0364	EA	1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.97	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0365	EA	1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.18	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0366	EA	1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.40	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0367	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.78	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-0368	EA	1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.51	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-0369	EA	1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.56	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-0370	EA	1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.22	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-0371	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.50	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-0372	EA	1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.23	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-0373	EA	1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.07	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.84	
		For >500, Deduct	-2.20	
05 05 23 00-0374	EA	1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.48	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.84	
		For >500, Deduct	-2.20	
05 05 23 00-0375	EA	1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.64	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.84	
		For >500, Deduct	-2.20	
05 05 23 00-0376	EA	1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.55	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-0377	EA	1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.28	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-0378	EA	1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.30	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-0379	EA	1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.69	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-0380		9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0381	EA	9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.70	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0382	EA	9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.94	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0383	EA	9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.15	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0384	EA	9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.56	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0385 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.85	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0386 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.19	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0387 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.74	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0388 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.01	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0389 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.35	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0390 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.87	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0391 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.23	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0392 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.41	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0393 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.04	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0394 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.53	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0395 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.34	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0396 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.28	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0397 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.57	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0398 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.87	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0399 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.60	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0400 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0401 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.78	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0402 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.86	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0403 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.93	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0404 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.33	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0405 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.72	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0406	EA	5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.08	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0407	EA	5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.61	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0408	EA	5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.30	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0409	EA	5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.67	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0410	EA	5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.02	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0411	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.61	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0412	EA	5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.55	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0413	EA	5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.57	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-0414	EA	5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.34	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-0415	EA	5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.46	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-0416	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.01	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0417	EA	5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.06	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0418	EA	5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.59	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0419	EA	5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.12	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0420		3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0421	EA	3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.66	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-0422	EA	3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.81	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-0423	EA	3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.89	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-0424	EA	3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.40	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0425	EA	3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.79	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0426	EA	3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.38	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0427 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.95	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0428 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.33	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0429 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.14	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0430 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.66	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0431 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.33	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0432 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.13	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0433 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.45	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.04	
For >500, Deduct	-2.45	
05 05 23 00-0434 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.29	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.04	
For >500, Deduct	-2.45	
05 05 23 00-0435 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.77	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.04	
For >500, Deduct	-2.45	
05 05 23 00-0436 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.18	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0437 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.61	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0438 EA 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.00	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0439 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.34	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0440 7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0441 EA 7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.59	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0442 EA 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.78	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0443 EA 7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.04	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0444 EA 7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.48	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0445 EA 7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.26	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0446 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.78	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0447 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.33	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0448	EA	7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.26	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	
05 05 23 00-0449	EA	7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.96	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	
05 05 23 00-0450	EA	7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.46	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-0451	EA	7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.04	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-0452	EA	7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.53	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-0453	EA	7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.59	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-2.70	
05 05 23 00-0454	EA	7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.68	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-2.70	
05 05 23 00-0455	EA	7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.75	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-2.70	
05 05 23 00-0456	EA	7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.48	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0457	EA	7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.55	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0458	EA	7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.46	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0459	EA	7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.37	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0460		1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0461	EA	1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.33	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0462	EA	1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.39	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0463	EA	1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.15	
		For >100 To 250, Deduct	-1.70	
		For >250 To 500, Deduct	-2.13	
		For >500, Deduct	-2.55	
05 05 23 00-0464	EA	1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.91	
		For >100 To 250, Deduct	-1.70	
		For >250 To 500, Deduct	-2.13	
		For >500, Deduct	-2.55	
05 05 23 00-0465	EA	1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.47	
		For >100 To 250, Deduct	-1.70	
		For >250 To 500, Deduct	-2.13	
		For >500, Deduct	-2.55	
05 05 23 00-0466	EA	1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.34	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	
05 05 23 00-0467	EA	1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.22	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	
05 05 23 00-0468	EA	1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.52	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0469	EA	1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.61	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-0470	EA	1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.88	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-0471	EA	1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.68	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-0472	EA	1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.01	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-2.70	
05 05 23 00-0473	EA	1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.93	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-2.70	
05 05 23 00-0474	EA	1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.48	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-2.70	
05 05 23 00-0475	EA	1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	31.79	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0476	EA	1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	32.27	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0477	EA	1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	33.59	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0478	EA	1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	34.49	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0479		Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0104)		
05 05 23 00-0480		1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0481	EA	1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.00	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0482	EA	1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.09	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0483	EA	1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.14	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0484	EA	1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.24	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0485	EA	1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.47	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0486	EA	1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.58	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0487	EA	1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.69	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0488	EA	1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.86	
		For >100 To 250, Deduct	-1.23	
		For >250 To 500, Deduct	-1.54	
		For >500, Deduct	-1.85	
05 05 23 00-0489	EA	1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.16	
		For >100 To 250, Deduct	-1.23	
		For >250 To 500, Deduct	-1.54	
		For >500, Deduct	-1.85	
05 05 23 00-0490	EA	1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.44	
		For >100 To 250, Deduct	-1.23	
		For >250 To 500, Deduct	-1.54	
		For >500, Deduct	-1.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0491	EA		1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.74	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0492	EA		1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.89	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0493	EA		1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.08	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0494	EA		1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.39	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0495	EA		1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.76	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0496	EA		1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.93	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0497			5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0498	EA		5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.08	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0499	EA		5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.14	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0500	EA		5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.32	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0501	EA		5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.35	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-1.75	
05 05 23 00-0502	EA		5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.62	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-1.80	
05 05 23 00-0503	EA		5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.88	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-1.80	
05 05 23 00-0504	EA		5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.96	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-1.80	
05 05 23 00-0505	EA		5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.28	
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.54	
			For >500, Deduct	-1.85	
05 05 23 00-0506	EA		5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.45	
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.54	
			For >500, Deduct	-1.85	
05 05 23 00-0507	EA		5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.83	
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.54	
			For >500, Deduct	-1.85	
05 05 23 00-0508	EA		5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.21	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0509	EA		5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.36	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0510	EA		5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.58	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-0511	EA		5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.92	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0512 EA 5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.08	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0513 EA 5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.40	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0514 3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0515 EA 3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.27	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0516 EA 3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.29	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0517 EA 3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.31	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0518 EA 3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.51	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0519 EA 3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.80	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0520 EA 3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.01	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0521 EA 3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.20	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0522 EA 3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.96	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0523 EA 3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.20	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0524 EA 3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.24	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0525 EA 3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.50	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0526 EA 3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.76	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0527 EA 3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.92	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0528 EA 3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.37	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0529 EA 3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.89	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0530 EA 3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.11	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0531 7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0532 EA 7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.31	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0533	EA	7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.34	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0534	EA	7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.67	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0535	EA	7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.87	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0536	EA	7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.24	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0537	EA	7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.44	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0538	EA	7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.65	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-0539	EA	7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.46	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-0540	EA	7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.10	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-0541	EA	7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.69	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-0542	EA	7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.91	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-0543	EA	7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.25	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-0544	EA	7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.91	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.84	
		For >500, Deduct	-2.20	
05 05 23 00-0545	EA	7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.99	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.84	
		For >500, Deduct	-2.20	
05 05 23 00-0546	EA	7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.07	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.84	
		For >500, Deduct	-2.20	
05 05 23 00-0547 1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)				
05 05 23 00-0548	EA	1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.53	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0549	EA	1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.76	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0550	EA	1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.91	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0551	EA	1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.24	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0552	EA	1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.50	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0553	EA	1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.09	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0554 EA 1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.68	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0555 EA 1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.02	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0556 EA 1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.27	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0557 EA 1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.85	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0558 EA 1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.60	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0559 EA 1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.29	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0560 EA 1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.05	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0561 EA 1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.36	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0562 EA 1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.21	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0563 EA 1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.79	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0564 EA 1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.41	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0565 EA 1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.73	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0566 EA 1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.26	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0567 9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0568 EA 9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.75	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0569 EA 9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.89	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0570 EA 9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.22	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0571 EA 9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.88	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0572 EA 9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.00	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0573 EA 9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.48	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0574 EA 9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.97	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0575	EA		9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.56	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0576	EA		9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.87	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0577	EA		9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.28	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0578	EA		9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.96	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0579	EA		9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.56	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0580	EA		9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.77	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	
05 05 23 00-0581	EA		9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.53	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	
05 05 23 00-0582	EA		9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.62	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	
05 05 23 00-0583			5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0584	EA		5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.09	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0585	EA		5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.23	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0586	EA		5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.60	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0587	EA		5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.30	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0588	EA		5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.74	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0589	EA		5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.98	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0590	EA		5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.31	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0591	EA		5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.09	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0592	EA		5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.44	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0593	EA		5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.96	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0594	EA		5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.33	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0595	EA		5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.10	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0596 EA 5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.10	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.04	
For >500, Deduct	-2.45	
05 05 23 00-0597 EA 5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.97	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.04	
For >500, Deduct	-2.45	
05 05 23 00-0598 EA 5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.34	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.04	
For >500, Deduct	-2.45	
05 05 23 00-0599 EA 5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.05	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0600 EA 5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.77	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0601 EA 5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.90	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0602 EA 5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.50	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0603 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0604 EA 3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.91	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0605 EA 3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.06	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0606 EA 3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.17	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0607 EA 3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.56	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0608 EA 3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.88	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0609 EA 3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.82	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0610 EA 3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.38	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0611 EA 3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.46	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0612 EA 3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.73	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0613 EA 3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.35	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0614 EA 3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.01	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0615 EA 3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.26	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0616 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.95	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.04	
For >500, Deduct	-2.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0617	EA	3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	18.61	
		For >100 To 250, Deduct		-1.63	
		For >250 To 500, Deduct		-2.04	
		For >500, Deduct		-2.45	
05 05 23 00-0618	EA	3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	18.95	
		For >100 To 250, Deduct		-1.63	
		For >250 To 500, Deduct		-2.04	
		For >500, Deduct		-2.45	
05 05 23 00-0619	EA	3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	20.75	
		For >100 To 250, Deduct		-1.67	
		For >250 To 500, Deduct		-2.08	
		For >500, Deduct		-2.50	
05 05 23 00-0620	EA	3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	21.96	
		For >100 To 250, Deduct		-1.67	
		For >250 To 500, Deduct		-2.08	
		For >500, Deduct		-2.50	
05 05 23 00-0621	EA	3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	22.82	
		For >100 To 250, Deduct		-1.67	
		For >250 To 500, Deduct		-2.08	
		For >500, Deduct		-2.50	
05 05 23 00-0622	EA	3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	23.14	
		For >100 To 250, Deduct		-1.67	
		For >250 To 500, Deduct		-2.08	
		For >500, Deduct		-2.50	
05 05 23 00-0623		7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts	(05 05 23 00-0479)		
05 05 23 00-0624	EA	7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	12.99	
		For >100 To 250, Deduct		-1.67	
		For >250 To 500, Deduct		-2.08	
		For >500, Deduct		-2.50	
05 05 23 00-0625	EA	7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	13.40	
		For >100 To 250, Deduct		-1.67	
		For >250 To 500, Deduct		-2.08	
		For >500, Deduct		-2.50	
05 05 23 00-0626	EA	7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	14.19	
		For >100 To 250, Deduct		-1.70	
		For >250 To 500, Deduct		-2.13	
		For >500, Deduct		-2.55	
05 05 23 00-0627	EA	7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	15.42	
		For >100 To 250, Deduct		-1.70	
		For >250 To 500, Deduct		-2.13	
		For >500, Deduct		-2.55	
05 05 23 00-0628	EA	7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	15.56	
		For >100 To 250, Deduct		-1.70	
		For >250 To 500, Deduct		-2.13	
		For >500, Deduct		-2.55	
05 05 23 00-0629	EA	7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	15.98	
		For >100 To 250, Deduct		-1.73	
		For >250 To 500, Deduct		-2.17	
		For >500, Deduct		-2.60	
05 05 23 00-0630	EA	7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	18.95	
		For >100 To 250, Deduct		-1.73	
		For >250 To 500, Deduct		-2.17	
		For >500, Deduct		-2.60	
05 05 23 00-0631	EA	7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	19.71	
		For >100 To 250, Deduct		-1.73	
		For >250 To 500, Deduct		-2.17	
		For >500, Deduct		-2.60	
05 05 23 00-0632	EA	7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	21.65	
		For >100 To 250, Deduct		-1.77	
		For >250 To 500, Deduct		-2.21	
		For >500, Deduct		-2.65	
05 05 23 00-0633	EA	7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	22.76	
		For >100 To 250, Deduct		-1.77	
		For >250 To 500, Deduct		-2.21	
		For >500, Deduct		-2.65	
05 05 23 00-0634	EA	7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	25.64	
		For >100 To 250, Deduct		-1.77	
		For >250 To 500, Deduct		-2.21	
		For >500, Deduct		-2.65	
05 05 23 00-0635	EA	7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	26.77	
		For >100 To 250, Deduct		-1.80	
		For >250 To 500, Deduct		-2.25	
		For >500, Deduct		-2.70	
05 05 23 00-0636	EA	7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	29.73	
		For >100 To 250, Deduct		-1.80	
		For >250 To 500, Deduct		-2.25	
		For >500, Deduct		-2.70	
05 05 23 00-0637	EA	7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	.....	30.93	
		For >100 To 250, Deduct		-1.80	
		For >250 To 500, Deduct		-2.25	
		For >500, Deduct		-2.70	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0638 EA 7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.05	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0639 EA 7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.39	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0640 EA 7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.69	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0641 EA 7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	33.40	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0642 1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0643 EA 1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.16	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0644 EA 1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.19	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0645 EA 1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.82	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0646 EA 1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.59	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0647 EA 1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.04	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0648 EA 1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.58	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0649 EA 1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.82	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0650 EA 1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.48	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0651 EA 1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.43	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0652 EA 1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.13	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0653 EA 1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.60	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0654 EA 1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.30	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0655 EA 1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.23	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0656 EA 1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.90	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0657 EA 1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	34.15	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0658 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	35.28	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0659	EA		1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	38.27 -1.83 -2.29 -2.75	
05 05 23 00-0660	EA		1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	40.09 -1.83 -2.29 -2.75	
05 05 23 00-0661			Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0104)		
05 05 23 00-0662			1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		
05 05 23 00-0663	EA		1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	6.13 -1.17 -1.46 -1.75	
05 05 23 00-0664	EA		1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	6.14 -1.17 -1.46 -1.75	
05 05 23 00-0665	EA		1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	6.16 -1.17 -1.46 -1.75	
05 05 23 00-0666	EA		1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	6.37 -1.17 -1.46 -1.75	
05 05 23 00-0667	EA		1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	6.65 -1.20 -1.50 -1.80	
05 05 23 00-0668	EA		1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	6.77 -1.20 -1.50 -1.80	
05 05 23 00-0669	EA		1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	6.82 -1.20 -1.50 -1.80	
05 05 23 00-0670	EA		1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.01 -1.23 -1.54 -1.85	
05 05 23 00-0671	EA		1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.16 -1.23 -1.54 -1.85	
05 05 23 00-0672	EA		1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.20 -1.23 -1.54 -1.85	
05 05 23 00-0673	EA		1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.46 -1.27 -1.58 -1.90	
05 05 23 00-0674	EA		1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.59 -1.27 -1.58 -1.90	
05 05 23 00-0675	EA		1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.63 -1.27 -1.58 -1.90	
05 05 23 00-0676	EA		1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.93 -1.30 -1.63 -1.95	
05 05 23 00-0677	EA		1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.29 -1.30 -1.63 -1.95	
05 05 23 00-0678	EA		1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.74 -1.30 -1.63 -1.95	
05 05 23 00-0679			5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0680 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.03	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0681 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.44	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0682 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.48	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0683 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.49	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0684 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.85	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0685 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.23	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0686 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.30	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0687 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.58	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0688 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.62	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0689 EA 5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.92	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0690 EA 5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.17	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0691 EA 5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.29	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0692 EA 5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.58	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0693 EA 5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.35	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0694 EA 5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.83	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0695 EA 5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.27	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0696 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		
05 05 23 00-0697 EA 3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.15	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0698 EA 3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.25	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0699 EA 3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.35	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0700 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.60	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0701	EA	3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.88	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0702	EA	3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.09	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0703	EA	3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.23	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.50	
		For >500, Deduct	-1.80	
05 05 23 00-0704	EA	3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.60	
		For >100 To 250, Deduct	-1.23	
		For >250 To 500, Deduct	-1.54	
		For >500, Deduct	-1.85	
05 05 23 00-0705	EA	3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.71	
		For >100 To 250, Deduct	-1.23	
		For >250 To 500, Deduct	-1.54	
		For >500, Deduct	-1.85	
05 05 23 00-0706	EA	3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.96	
		For >100 To 250, Deduct	-1.23	
		For >250 To 500, Deduct	-1.54	
		For >500, Deduct	-1.85	
05 05 23 00-0707	EA	3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.23	
		For >100 To 250, Deduct	-1.27	
		For >250 To 500, Deduct	-1.58	
		For >500, Deduct	-1.90	
05 05 23 00-0708	EA	3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.57	
		For >100 To 250, Deduct	-1.27	
		For >250 To 500, Deduct	-1.58	
		For >500, Deduct	-1.90	
05 05 23 00-0709	EA	3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.63	
		For >100 To 250, Deduct	-1.27	
		For >250 To 500, Deduct	-1.58	
		For >500, Deduct	-1.90	
05 05 23 00-0710	EA	3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.83	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0711	EA	3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.87	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0712	EA	3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0713		7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		
05 05 23 00-0714	EA	7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.61	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0715	EA	7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.06	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0716	EA	7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.40	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0717	EA	7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0718	EA	7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.17	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0719	EA	7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.21	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0720	EA	7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.66	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-0721	EA	7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.98	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0722 EA 7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.27	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0723 EA 7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.75	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0724 EA 7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.08	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0725 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		
05 05 23 00-0726 EA 1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.41	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0727 EA 1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.56	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0728 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.85	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0729 EA 1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.36	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0730 EA 1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.58	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0731 EA 1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.00	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0732 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.24	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0733 EA 1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.39	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0734 EA 1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.72	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0735 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.04	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0736 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.40	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0737 EA 1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.44	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0738 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.68	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0739 EA 1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.78	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0740 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.06	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.20	
05 05 23 00-0741 EA 1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.55	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	
05 05 23 00-0742 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.77	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0743	EA		1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.82	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0744	EA		1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.95	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0745			5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		
05 05 23 00-0746	EA		5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.77	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0747	EA		5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.99	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0748	EA		5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0749	EA		5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.57	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0750	EA		5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.90	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0751	EA		5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.63	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0752	EA		5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.92	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0753	EA		5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.05	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0754	EA		5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.28	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0755	EA		5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.73	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0756	EA		5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.99	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0757	EA		5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.75	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0758	EA		5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.97	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.04	
			For >500, Deduct	-2.45	
05 05 23 00-0759	EA		5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.30	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.04	
			For >500, Deduct	-2.45	
05 05 23 00-0760	EA		5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.69	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.04	
			For >500, Deduct	-2.45	
05 05 23 00-0761	EA		5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.40	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.50	
05 05 23 00-0762	EA		5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.03	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.50	
05 05 23 00-0763	EA		5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.47	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.50	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0764	EA	5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.57	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0765 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)				
05 05 23 00-0766	EA	3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.85	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-0767	EA	3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.89	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-0768	EA	3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.17	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-0769	EA	3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.95	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0770	EA	3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.98	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0771	EA	3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.65	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0772	EA	3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.17	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0773	EA	3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.23	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0774	EA	3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.37	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0775	EA	3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.63	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0776	EA	3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.50	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0777	EA	3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.87	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-0778	EA	3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.75	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-0779	EA	3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.87	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-0780	EA	3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.23	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-0781	EA	3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.92	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0782	EA	3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.30	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0783	EA	3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.51	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-0784	EA	3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.62	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0785 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		
05 05 23 00-0786 EA 7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.82	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0787 EA 7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.25	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0788 EA 7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.66	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0789 EA 7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.88	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0790 EA 7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.21	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0791 EA 7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.80	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0792 EA 7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.26	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0793 EA 7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.85	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0794 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.44	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0795 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.90	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0796 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.56	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0797 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.24	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0798 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.09	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0799 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.29	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0800 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.69	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0801 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.17	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0802 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.76	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0803 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.31	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0804 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		
05 05 23 00-0805 EA 1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.79	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0806	EA	1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.10	
		For >100 To 250, Deduct	-1.70	
		For >250 To 500, Deduct	-2.13	
		For >500, Deduct	-2.55	
05 05 23 00-0807	EA	1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.90	
		For >100 To 250, Deduct	-1.70	
		For >250 To 500, Deduct	-2.13	
		For >500, Deduct	-2.55	
05 05 23 00-0808	EA	1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.53	
		For >100 To 250, Deduct	-1.70	
		For >250 To 500, Deduct	-2.13	
		For >500, Deduct	-2.55	
05 05 23 00-0809	EA	1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.12	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	
05 05 23 00-0810	EA	1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.44	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	
05 05 23 00-0811	EA	1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.36	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	
05 05 23 00-0812	EA	1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.63	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-0813	EA	1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.97	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-0814	EA	1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.11	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-0815	EA	1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.88	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-2.70	
05 05 23 00-0816	EA	1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.19	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-2.70	
05 05 23 00-0817	EA	1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.49	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-2.70	
05 05 23 00-0818	EA	1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.04	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0819	EA	1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.10	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0820	EA	1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.90	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0821	EA	1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.09	
		For >100 To 250, Deduct	-1.83	
		For >250 To 500, Deduct	-2.29	
		For >500, Deduct	-2.75	
05 05 23 00-0822		304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0104)		
05 05 23 00-0823		1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0824	EA	1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	5.99	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0825	EA	1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.06	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0826	EA	1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.14	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	
05 05 23 00-0827	EA	1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.22	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.46	
		For >500, Deduct	-1.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0828	EA	1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.48		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.50		
		For >500, Deduct	-1.80		
05 05 23 00-0829	EA	1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.61		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.50		
		For >500, Deduct	-1.80		
05 05 23 00-0830	EA	1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.76		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.50		
		For >500, Deduct	-1.80		
05 05 23 00-0831	EA	1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.04		
		For >100 To 250, Deduct	-1.23		
		For >250 To 500, Deduct	-1.54		
		For >500, Deduct	-1.85		
05 05 23 00-0832	EA	1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.23		
		For >100 To 250, Deduct	-1.23		
		For >250 To 500, Deduct	-1.54		
		For >500, Deduct	-1.85		
05 05 23 00-0833	EA	1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.40		
		For >100 To 250, Deduct	-1.23		
		For >250 To 500, Deduct	-1.54		
		For >500, Deduct	-1.85		
05 05 23 00-0834	EA	1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.70		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.58		
		For >500, Deduct	-1.90		
05 05 23 00-0835	EA	1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.98		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.58		
		For >500, Deduct	-1.90		
05 05 23 00-0836	EA	1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.37		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.58		
		For >500, Deduct	-1.90		
05 05 23 00-0837	EA	1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.20		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0838	EA	1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.36		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0839	EA	1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.74		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0840		5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)			
05 05 23 00-0841	EA	5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.11		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.46		
		For >500, Deduct	-1.75		
05 05 23 00-0842	EA	5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.17		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.46		
		For >500, Deduct	-1.75		
05 05 23 00-0843	EA	5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.29		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.46		
		For >500, Deduct	-1.75		
05 05 23 00-0844	EA	5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.39		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.46		
		For >500, Deduct	-1.75		
05 05 23 00-0845	EA	5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.74		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.50		
		For >500, Deduct	-1.80		
05 05 23 00-0846	EA	5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.80		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.50		
		For >500, Deduct	-1.80		
05 05 23 00-0847	EA	5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.11		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.50		
		For >500, Deduct	-1.80		
05 05 23 00-0848	EA	5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.50		
		For >100 To 250, Deduct	-1.23		
		For >250 To 500, Deduct	-1.54		
		For >500, Deduct	-1.85		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0849 EA 5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.86	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0850 EA 5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.03	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0851 EA 5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.73	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0852 EA 5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.62	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0853 EA 5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.63	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0854 EA 5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.07	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0855 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0856 EA 3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.26	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0857 EA 3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.34	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0858 EA 3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.53	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0859 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.77	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-0860 EA 3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.06	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0861 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.26	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0862 EA 3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.51	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-0863 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.91	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0864 EA 3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.21	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0865 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.87	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-0866 EA 3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.11	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0867 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.66	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0868 EA 3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.83	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-0869 EA 3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.28	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0870	EA		3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.45	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0871	EA		3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.62	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0872			7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0873	EA		7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.72	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0874	EA		7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.80	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0875	EA		7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.11	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0876	EA		7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.47	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0877	EA		7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.84	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0878	EA		7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.46	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0879	EA		7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.91	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0880	EA		7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.63	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0881	EA		7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.95	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0882	EA		7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.10	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0883	EA		7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.21	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0884	EA		7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.36	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0885	EA		7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.66	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	
05 05 23 00-0886			1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0887	EA		1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.71	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0888	EA		1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.80	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0889	EA		1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.29	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0890	EA		1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.65	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0891 EA 1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	9.09 -1.37 -1.71 -2.05	
05 05 23 00-0892 EA 1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	9.33 -1.37 -1.71 -2.05	
05 05 23 00-0893 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	9.79 -1.40 -1.75 -2.10	
05 05 23 00-0894 EA 1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	10.01 -1.40 -1.75 -2.10	
05 05 23 00-0895 EA 1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	11.16 -1.40 -1.75 -2.10	
05 05 23 00-0896 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	11.64 -1.43 -1.79 -2.15	
05 05 23 00-0897 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	12.16 -1.43 -1.79 -2.15	
05 05 23 00-0898 EA 1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	12.76 -1.43 -1.79 -2.15	
05 05 23 00-0899 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	13.80 -1.47 -1.84 -2.20	
05 05 23 00-0900 EA 1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	14.15 -1.47 -1.84 -2.20	
05 05 23 00-0901 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	14.71 -1.47 -1.84 -2.20	
05 05 23 00-0902 EA 1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	17.59 -1.50 -1.88 -2.25	
05 05 23 00-0903 EA 1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	17.81 -1.50 -1.88 -2.25	
05 05 23 00-0904 EA 1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	19.35 -1.50 -1.88 -2.25	
05 05 23 00-0905 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	20.88 -1.50 -1.88 -2.25	
05 05 23 00-0906 9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822) For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	10.26 -1.33 -1.67 -2.00	
05 05 23 00-0908 EA 9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	11.27 -1.33 -1.67 -2.00	
05 05 23 00-0909 EA 9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	13.03 -1.33 -1.67 -2.00	
05 05 23 00-0910 EA 9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	13.56 -1.37 -1.71 -2.05	
05 05 23 00-0911 EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	14.18 -1.37 -1.71 -2.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0912	EA		9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.28	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0913	EA		9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.06	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0914	EA		9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.31	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0915	EA		9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	19.62	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0916	EA		9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	20.87	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0917	EA		9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	22.11	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0918			5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0919	EA		5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.40	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0920	EA		5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.63	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0921	EA		5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.59	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.25	
05 05 23 00-0922	EA		5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.92	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0923	EA		5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.38	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0924	EA		5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.04	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0925	EA		5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	13.03	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0926	EA		5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	13.04	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0927	EA		5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	13.77	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0928	EA		5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	14.35	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0929	EA		5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.01	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0930	EA		5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.43	
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.40	
05 05 23 00-0931	EA		5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	18.93	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.04	
			For >500, Deduct	-2.45	
05 05 23 00-0932	EA		5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	20.02	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.04	
			For >500, Deduct	-2.45	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0933 EA 5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	20.52 -1.63 -2.04 -2.45	
05 05 23 00-0934 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	22.70 -1.67 -2.08 -2.50	
05 05 23 00-0935 EA 5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	23.35 -1.67 -2.08 -2.50	
05 05 23 00-0936 EA 5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	26.23 -1.67 -2.08 -2.50	
05 05 23 00-0937 EA 5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	27.41 -1.67 -2.08 -2.50	
05 05 23 00-0938 3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0939 EA 3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	10.45 -1.50 -1.88 -2.25	
05 05 23 00-0940 EA 3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	10.90 -1.50 -1.88 -2.25	
05 05 23 00-0941 EA 3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	11.49 -1.50 -1.88 -2.25	
05 05 23 00-0942 EA 3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	12.31 -1.53 -1.92 -2.30	
05 05 23 00-0943 EA 3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	12.96 -1.53 -1.92 -2.30	
05 05 23 00-0944 EA 3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	14.07 -1.53 -1.92 -2.30	
05 05 23 00-0945 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	14.89 -1.57 -1.96 -2.35	
05 05 23 00-0946 EA 3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	15.92 -1.57 -1.96 -2.35	
05 05 23 00-0947 EA 3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	16.74 -1.57 -1.96 -2.35	
05 05 23 00-0948 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	17.75 -1.60 -2.00 -2.40	
05 05 23 00-0949 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	18.70 -1.60 -2.00 -2.40	
05 05 23 00-0950 EA 3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	20.50 -1.60 -2.00 -2.40	
05 05 23 00-0951 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	25.43 -1.63 -2.04 -2.45	
05 05 23 00-0952 EA 3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	26.95 -1.63 -2.04 -2.45	
05 05 23 00-0953 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	30.20 -1.63 -2.04 -2.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0954	EA		3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	30.51	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.50	
05 05 23 00-0955	EA		3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.03	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.50	
05 05 23 00-0956	EA		3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.41	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.50	
05 05 23 00-0957	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.48	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.50	
05 05 23 00-0958			7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0922)		
05 05 23 00-0959	EA		7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.11	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.50	
05 05 23 00-0960	EA		7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.23	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.50	
05 05 23 00-0961	EA		7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.27	
			For >100 To 250, Deduct	-1.70	
			For >250 To 500, Deduct	-2.13	
			For >500, Deduct	-2.55	
05 05 23 00-0962	EA		7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.41	
			For >100 To 250, Deduct	-1.70	
			For >250 To 500, Deduct	-2.13	
			For >500, Deduct	-2.55	
05 05 23 00-0963	EA		7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.78	
			For >100 To 250, Deduct	-1.70	
			For >250 To 500, Deduct	-2.13	
			For >500, Deduct	-2.55	
05 05 23 00-0964	EA		7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.88	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.60	
05 05 23 00-0965	EA		7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.24	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.60	
05 05 23 00-0966	EA		7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.72	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.60	
05 05 23 00-0967	EA		7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.26	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0968	EA		7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.22	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0969	EA		7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.48	
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-2.65	
05 05 23 00-0970	EA		7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.66	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.25	
			For >500, Deduct	-2.70	
05 05 23 00-0971	EA		7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.02	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.25	
			For >500, Deduct	-2.70	
05 05 23 00-0972	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.92	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.25	
			For >500, Deduct	-2.70	
05 05 23 00-0973	EA		7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.85	
			For >100 To 250, Deduct	-1.83	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-2.75	
05 05 23 00-0974	EA		7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.48	
			For >100 To 250, Deduct	-1.83	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-2.75	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0975 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	47.62	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0976 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.75	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0977 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0978 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.83	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0979 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.65	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-0980 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.05	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0981 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.09	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0982 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.78	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-0983 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.85	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0984 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.04	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0985 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.79	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0986 EA 1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.60	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0987 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.70	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0988 EA 1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.39	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-0989 EA 1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.50	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0990 EA 1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.38	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0991 EA 1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.27	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-0992 EA 1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.20	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0993 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.91	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0994 EA 1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	58.22	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-0995 EA 1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	72.57	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
05 05 23 00-0996	316 Stainless Steel, Hex Head Bolts	(05 05 23 00-0104)		
05 05 23 00-0997	1/4" Diameter, 316 Stainless Steel, Hex Head Bolts	(05 05 23 00-0996)		
05 05 23 00-0998	EA 1/4" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt		6.12	
	For >100 To 250, Deduct		-1.17	
	For >250 To 500, Deduct		-1.46	
	For >500, Deduct		-1.75	
05 05 23 00-0999	EA 1/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt		6.25	
	For >100 To 250, Deduct		-1.17	
	For >250 To 500, Deduct		-1.46	
	For >500, Deduct		-1.75	
05 05 23 00-1000	EA 1/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt		6.34	
	For >100 To 250, Deduct		-1.17	
	For >250 To 500, Deduct		-1.46	
	For >500, Deduct		-1.75	
05 05 23 00-1001	EA 1/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt		6.40	
	For >100 To 250, Deduct		-1.17	
	For >250 To 500, Deduct		-1.46	
	For >500, Deduct		-1.75	
05 05 23 00-1002	EA 1/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt		6.76	
	For >100 To 250, Deduct		-1.20	
	For >250 To 500, Deduct		-1.50	
	For >500, Deduct		-1.80	
05 05 23 00-1003	EA 1/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt		6.93	
	For >100 To 250, Deduct		-1.20	
	For >250 To 500, Deduct		-1.50	
	For >500, Deduct		-1.80	
05 05 23 00-1004	EA 1/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt		7.10	
	For >100 To 250, Deduct		-1.20	
	For >250 To 500, Deduct		-1.50	
	For >500, Deduct		-1.80	
05 05 23 00-1005	EA 1/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt		7.40	
	For >100 To 250, Deduct		-1.23	
	For >250 To 500, Deduct		-1.54	
	For >500, Deduct		-1.85	
05 05 23 00-1006	EA 1/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt		7.54	
	For >100 To 250, Deduct		-1.23	
	For >250 To 500, Deduct		-1.54	
	For >500, Deduct		-1.85	
05 05 23 00-1007	EA 1/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt		7.60	
	For >100 To 250, Deduct		-1.23	
	For >250 To 500, Deduct		-1.54	
	For >500, Deduct		-1.85	
05 05 23 00-1008	EA 1/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt		8.19	
	For >100 To 250, Deduct		-1.27	
	For >250 To 500, Deduct		-1.58	
	For >500, Deduct		-1.90	
05 05 23 00-1009	EA 1/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt		8.31	
	For >100 To 250, Deduct		-1.27	
	For >250 To 500, Deduct		-1.58	
	For >500, Deduct		-1.90	
05 05 23 00-1010	EA 1/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt		12.62	
	For >100 To 250, Deduct		-1.27	
	For >250 To 500, Deduct		-1.58	
	For >500, Deduct		-1.90	
05 05 23 00-1011	EA 1/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt		18.03	
	For >100 To 250, Deduct		-1.30	
	For >250 To 500, Deduct		-1.63	
	For >500, Deduct		-1.95	
05 05 23 00-1012	EA 1/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt		29.53	
	For >100 To 250, Deduct		-1.30	
	For >250 To 500, Deduct		-1.63	
	For >500, Deduct		-1.95	
05 05 23 00-1013	EA 1/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt		32.16	
	For >100 To 250, Deduct		-1.30	
	For >250 To 500, Deduct		-1.63	
	For >500, Deduct		-1.95	
05 05 23 00-1014	5/16" Diameter, 316 Stainless Steel, Hex Head Bolts	(05 05 23 00-0996)		
05 05 23 00-1015	EA 5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt		6.29	
	For >100 To 250, Deduct		-1.17	
	For >250 To 500, Deduct		-1.46	
	For >500, Deduct		-1.75	
05 05 23 00-1016	EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt		6.44	
	For >100 To 250, Deduct		-1.17	
	For >250 To 500, Deduct		-1.46	
	For >500, Deduct		-1.75	
05 05 23 00-1017	EA 5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt		6.68	
	For >100 To 250, Deduct		-1.17	
	For >250 To 500, Deduct		-1.46	
	For >500, Deduct		-1.75	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1018 EA 5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	6.87	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-1019 EA 5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	7.12	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-1020 EA 5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	7.50	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-1021 EA 5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	7.77	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-1022 EA 5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	8.05	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-1023 EA 5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.62	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-1024 EA 5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	8.73	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-1025 EA 5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.29	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-1026 EA 5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	9.73	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-1027 EA 5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.40	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-1.90	
05 05 23 00-1028 EA 5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	18.79	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-1029 3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1030 EA 3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	6.68	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-1031 EA 3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	6.74	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-1032 EA 3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	6.97	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-1033 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.52	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-1.75	
05 05 23 00-1034 EA 3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	7.88	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-1035 EA 3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	7.98	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-1036 EA 3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.46	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.50	
For >500, Deduct	-1.80	
05 05 23 00-1037 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	8.70	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	
05 05 23 00-1038 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.00	
For >100 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.54	
For >500, Deduct	-1.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1039	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	9.20	
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.54	
			For >500, Deduct	-1.85	
05 05 23 00-1040	EA		3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.02	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-1041	EA		3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	10.83	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-1042	EA		3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.86	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-1.90	
05 05 23 00-1043	EA		3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	13.09	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-1044	EA		3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.41	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-1045	EA		3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	20.00	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-1046			7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1047	EA		7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	8.44	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-1048	EA		7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.78	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-1049	EA		7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	9.43	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-1050	EA		7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.15	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-1051	EA		7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	10.77	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-1052	EA		7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.79	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-1053	EA		7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	12.93	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-1054	EA		7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.11	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-1055	EA		7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	13.48	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-1056	EA		7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.89	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-1057	EA		7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	14.15	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-1058	EA		7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.42	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-1059	EA		7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	14.80	
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.20	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-1060		1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1061	EA	1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	8.42	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-1062	EA	1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.79	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-1063	EA	1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	9.31	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-1064	EA	1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.10	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-1065	EA	1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	10.68	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-1066	EA	1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.82	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-1067	EA	1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	11.23	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-1068	EA	1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.33	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-1069	EA	1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	14.58	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-1070	EA	1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.90	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-1071	EA	1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	15.26	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-1072	EA	1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.03	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-1073	EA	1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	20.06	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.84	
		For >500, Deduct	-2.20	
05 05 23 00-1074	EA	1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.26	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.84	
		For >500, Deduct	-2.20	
05 05 23 00-1075	EA	1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	23.25	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.84	
		For >500, Deduct	-2.20	
05 05 23 00-1076	EA	1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.67	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-1077	EA	1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	32.06	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-1078	EA	1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.62	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-1079	EA	1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	33.48	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-1080		9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1081	EA	9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	17.72	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-1082	EA	9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.94	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-1083	EA	9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	23.02	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-1084	EA	9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.48	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-1085	EA	9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	27.89	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-1086	EA	9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.30	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-1087	EA	9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	31.98	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-1088	EA	9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.97	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-1089	EA	9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	35.73	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-1090	EA	9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.42	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-1091	EA	9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	37.98	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.15	
05 05 23 00-1092 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)				
05 05 23 00-1093	EA	5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	11.14	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-1094	EA	5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.25	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-1095	EA	5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	11.28	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-1096	EA	5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.15	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-1097	EA	5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	12.87	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-1098	EA	5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.14	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-1099	EA	5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	15.79	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-1100	EA	5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.77	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-1101	EA	5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	18.46	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-1102	EA	5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.93	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1103	EA	5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	20.50	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-1104	EA	5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.98	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-1105	EA	5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	25.40	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-1106	EA	5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.85	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-1107	EA	5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	27.47	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-1108	EA	5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	29.10	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-1109	EA	5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	30.48	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-1110	EA	5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.05	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-1111	EA	5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	44.08	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-1112		3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1113	EA	3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	13.91	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-1114	EA	3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.16	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-1115	EA	3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	15.10	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.88	
		For >500, Deduct	-2.25	
05 05 23 00-1116	EA	3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.10	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-1117	EA	3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	17.87	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-1118	EA	3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.89	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-1119	EA	3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	21.25	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-1120	EA	3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.15	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-1121	EA	3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	22.64	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-1122	EA	3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.47	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-1123	EA	3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	24.60	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
05 05 23 00-1124	EA	3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.08	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.40	
05 05 23 00-1125	EA	3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	33.29	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-1126	EA	3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.21	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-1127	EA	3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	37.80	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.04	
		For >500, Deduct	-2.45	
05 05 23 00-1128	EA	3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	40.32	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-1129	EA	3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	46.27	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-1130	EA	3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	46.78	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-1131	EA	3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	48.03	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-1132		7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1133	EA	7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.64	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-1134	EA	7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	17.27	
		For >100 To 250, Deduct	-1.67	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.50	
05 05 23 00-1135	EA	7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.35	
		For >100 To 250, Deduct	-1.70	
		For >250 To 500, Deduct	-2.13	
		For >500, Deduct	-2.55	
05 05 23 00-1136	EA	7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	20.64	
		For >100 To 250, Deduct	-1.70	
		For >250 To 500, Deduct	-2.13	
		For >500, Deduct	-2.55	
05 05 23 00-1137	EA	7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.66	
		For >100 To 250, Deduct	-1.70	
		For >250 To 500, Deduct	-2.13	
		For >500, Deduct	-2.55	
05 05 23 00-1138	EA	7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	22.72	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	
05 05 23 00-1139	EA	7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.11	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	
05 05 23 00-1140	EA	7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	27.23	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.60	
05 05 23 00-1141	EA	7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.48	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-1142	EA	7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	28.51	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-1143	EA	7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.25	
		For >100 To 250, Deduct	-1.77	
		For >250 To 500, Deduct	-2.21	
		For >500, Deduct	-2.65	
05 05 23 00-1144	EA	7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	41.27	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-2.70	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1145 EA 7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	45.41	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-1146 EA 7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	47.46	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-1147 EA 7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	50.27	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-1148 EA 7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	52.04	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-1149 EA 7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	53.80	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-1150 EA 7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	55.78	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	
05 05 23 00-1151 1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1152 EA 1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	19.24	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.50	
05 05 23 00-1153 EA 1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.93	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-1154 EA 1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	23.62	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-1155 EA 1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.32	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.55	
05 05 23 00-1156 EA 1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	27.44	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-1157 EA 1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	29.27	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-1158 EA 1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	31.12	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-1159 EA 1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.14	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1160 EA 1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	37.92	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1161 EA 1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.62	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1162 EA 1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	49.22	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-1163 EA 1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.63	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-1164 EA 1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	55.41	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-1165 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	57.34	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1166	EA		1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	58.08	
			For >100 To 250, Deduct	-1.83	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-2.75	
05 05 23 00-1167	EA		1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	67.06	
			For >100 To 250, Deduct	-1.83	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-2.75	
05 05 23 00-1168	EA		1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	75.73	
			For >100 To 250, Deduct	-1.83	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-2.75	
05 05 23 00-1169			Screws (05 05 23)		
05 05 23 00-1170			Teks® 5 Self Drilling Screws (05 05 23 00-1169)		
			Note: Screws include Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1171	EA		12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw	3.07	
			For >10 To 50, Deduct	-0.14	
			For >50 To 100, Deduct	-0.29	
			For >100, Deduct	-0.57	
05 05 23 00-1172	EA		12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw	3.17	
			For >10 To 50, Deduct	-0.14	
			For >50 To 100, Deduct	-0.29	
			For >100, Deduct	-0.58	
05 05 23 00-1173	EA		12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw	3.51	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.31	
			For >100, Deduct	-0.62	
05 05 23 00-1174	EA		1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw	4.73	
			For >10 To 50, Deduct	-0.19	
			For >50 To 100, Deduct	-0.40	
			For >100, Deduct	-0.79	
05 05 23 00-1175	EA		1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw	5.03	
			For >10 To 50, Deduct	-0.19	
			For >50 To 100, Deduct	-0.42	
			For >100, Deduct	-0.84	
05 05 23 00-1176	EA		1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw	6.03	
			For >10 To 50, Deduct	-0.20	
			For >50 To 100, Deduct	-0.46	
			For >100, Deduct	-0.91	
05 05 23 00-1177	EA		1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw	6.68	
			For >10 To 50, Deduct	-0.21	
			For >50 To 100, Deduct	-0.49	
			For >100, Deduct	-0.97	
05 05 23 00-1178			Security Screws (05 05 23 00-1169)		
05 05 23 00-1179			304/18-8 Stainless Steel, Security Screws (05 05 23 00-1178)		
			Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1180	EA		#4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws	2.42	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.47	
05 05 23 00-1181	EA		#6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	2.68	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.48	
05 05 23 00-1182	EA		#6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	2.90	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.49	
05 05 23 00-1183	EA		#6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	2.97	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.50	
05 05 23 00-1184	EA		#6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	3.11	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.51	
05 05 23 00-1185	EA		#8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	2.74	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.49	
05 05 23 00-1186	EA		#8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	2.84	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.49	
05 05 23 00-1187	EA		#8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.06	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.50	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1188	EA		#8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.12	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.51	
05 05 23 00-1189	EA		#10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.80	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.49	
05 05 23 00-1190	EA		#10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	2.83	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.49	
05 05 23 00-1191	EA		#10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.92	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.50	
05 05 23 00-1192	EA		#10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.22	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.26	
			For >100, Deduct	-0.51	
05 05 23 00-1193	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.97	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.50	
05 05 23 00-1194	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.04	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.50	
05 05 23 00-1195	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.32	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.26	
			For >100, Deduct	-0.52	
05 05 23 00-1196	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.76	
			For >10 To 50, Deduct	-0.12	
			For >50 To 100, Deduct	-0.27	
			For >100, Deduct	-0.54	

05 05 23 00-1197**Threaded Rod (05 05 23)**

Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1290 for nuts and washers.

05 05 23 00-1198**Plain Finish Steel, Low Carbon Threaded Rod (05 05 23 00-1197)**

05 05 23 00-1199	LF		1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	1.66	0.42
			For Left Hand Threaded Rod, Add	0.08	
05 05 23 00-1200	LF		5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.14	0.47
			For Left Hand Threaded Rod, Add	0.12	
05 05 23 00-1201	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.49	0.53
			For Left Hand Threaded Rod, Add	0.14	
05 05 23 00-1202	LF		7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.30	0.55
			For Left Hand Threaded Rod, Add	0.22	
05 05 23 00-1203	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.39	0.57
			For Left Hand Threaded Rod, Add	0.23	
05 05 23 00-1204	LF		9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.17	0.57
			For Left Hand Threaded Rod, Add	0.30	
05 05 23 00-1205	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.67	0.58
			For Left Hand Threaded Rod, Add	0.35	
05 05 23 00-1206	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.56	0.60
			For Left Hand Threaded Rod, Add	0.64	
05 05 23 00-1207	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	8.24	0.62
			For Left Hand Threaded Rod, Add	0.70	
05 05 23 00-1208	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.21	0.70
			For Left Hand Threaded Rod, Add	0.98	
05 05 23 00-1209	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	13.93	0.79
			For Left Hand Threaded Rod, Add	1.24	
05 05 23 00-1210	LF		1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	18.44	0.86
			For Left Hand Threaded Rod, Add	1.67	
05 05 23 00-1211	LF		1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	22.88	0.93
			For Left Hand Threaded Rod, Add	2.10	
05 05 23 00-1212	LF		1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	27.34	0.97
			For Left Hand Threaded Rod, Add	2.54	
05 05 23 00-1213	LF		1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	33.47	1.02
			For Left Hand Threaded Rod, Add	3.14	
05 05 23 00-1214	LF		2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	42.69	1.07
			For Left Hand Threaded Rod, Add	4.06	

05 05 23 00-1215**Zinc Plated Steel, Low Carbon Threaded Rod (05 05 23 00-1197)**

05 05 23 00-1216	LF		1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	1.67	0.42
			For Left Hand Threaded Rod, Add	0.08	
05 05 23 00-1217	LF		5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	2.41	0.47
			For Left Hand Threaded Rod, Add	0.15	
05 05 23 00-1218	LF		3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	2.69	0.53
			For Left Hand Threaded Rod, Add	0.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1219	LF		7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	3.80	0.55
			For Left Hand Threaded Rod, Add	0.27	
05 05 23 00-1220	LF		1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	4.09	0.57
			For Left Hand Threaded Rod, Add	0.30	
05 05 23 00-1221	LF		9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	5.31	0.57
			For Left Hand Threaded Rod, Add	0.42	
05 05 23 00-1222	LF		5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	5.63	0.58
			For Left Hand Threaded Rod, Add	0.45	
05 05 23 00-1223	LF		3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	8.38	0.60
			For Left Hand Threaded Rod, Add	0.72	
05 05 23 00-1224	LF		7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	10.81	0.62
			For Left Hand Threaded Rod, Add	0.96	
05 05 23 00-1225	LF		1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	14.46	0.70
			For Left Hand Threaded Rod, Add	1.30	
05 05 23 00-1226	LF		1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	18.63	0.79
			For Left Hand Threaded Rod, Add	1.71	
05 05 23 00-1227	LF		1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	22.22	0.86
			For Left Hand Threaded Rod, Add	2.04	
05 05 23 00-1228	LF		1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	25.22	0.93
			For Left Hand Threaded Rod, Add	2.34	
05 05 23 00-1229	LF		1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	31.71	0.97
			For Left Hand Threaded Rod, Add	2.98	
05 05 23 00-1230	LF		1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	39.24	1.02
			For Left Hand Threaded Rod, Add	3.72	
05 05 23 00-1231	LF		2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	57.14	1.07
			For Left Hand Threaded Rod, Add	5.50	
05 05 23 00-1232			Hot Dipped Galvanized Steel, Low Carbon Threaded Rod (05 05 23 00-1197)		
05 05 23 00-1233	LF		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	4.32	0.53
			For Left Hand Threaded Rod, Add	0.33	
05 05 23 00-1234	LF		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	6.00	0.57
			For Left Hand Threaded Rod, Add	0.49	
05 05 23 00-1235	LF		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	8.04	0.58
			For Left Hand Threaded Rod, Add	0.69	
05 05 23 00-1236	LF		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	10.98	0.60
			For Left Hand Threaded Rod, Add	0.98	
05 05 23 00-1237	LF		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	15.15	0.62
			For Left Hand Threaded Rod, Add	1.39	
05 05 23 00-1238	LF		1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	19.51	0.70
			For Left Hand Threaded Rod, Add	1.81	
05 05 23 00-1239	LF		1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	25.62	0.79
			For Left Hand Threaded Rod, Add	2.40	
05 05 23 00-1240	LF		1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	33.65	0.86
			For Left Hand Threaded Rod, Add	3.19	
05 05 23 00-1241	LF		1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	37.59	0.93
			For Left Hand Threaded Rod, Add	3.57	
05 05 23 00-1242	LF		1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	44.71	0.97
			For Left Hand Threaded Rod, Add	4.28	
05 05 23 00-1243	LF		1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	54.27	1.02
			For Left Hand Threaded Rod, Add	5.22	
05 05 23 00-1244	LF		2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	94.53	1.07
			For Left Hand Threaded Rod, Add	9.24	
05 05 23 00-1245			304/18-8 Stainless Steel Threaded Rod (05 05 23 00-1197)		
05 05 23 00-1246	LF		1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	2.19	0.42
			For Left Hand Threaded Rod, Add	0.13	
05 05 23 00-1247	LF		5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	3.22	0.47
			For Left Hand Threaded Rod, Add	0.23	
05 05 23 00-1248	LF		3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	4.12	0.53
			For Left Hand Threaded Rod, Add	0.31	
05 05 23 00-1249	LF		7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	5.63	0.55
			For Left Hand Threaded Rod, Add	0.45	
05 05 23 00-1250	LF		1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.72	0.57
			For Left Hand Threaded Rod, Add	0.56	
05 05 23 00-1251	LF		9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	9.56	0.57
			For Left Hand Threaded Rod, Add	0.84	
05 05 23 00-1252	LF		5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	9.97	0.58
			For Left Hand Threaded Rod, Add	0.88	
05 05 23 00-1253	LF		3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	13.87	0.60
			For Left Hand Threaded Rod, Add	1.27	
05 05 23 00-1254	LF		7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	18.99	0.62
			For Left Hand Threaded Rod, Add	1.77	
05 05 23 00-1255	LF		1" Diameter, 304/18-8 Stainless Steel Threaded Rod	24.32	0.70
			For Left Hand Threaded Rod, Add	2.29	
05 05 23 00-1256	LF		1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	51.21	0.86
			For Left Hand Threaded Rod, Add	4.94	
05 05 23 00-1257	LF		1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	77.81	0.97
			For Left Hand Threaded Rod, Add	7.59	
05 05 23 00-1258	LF		1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	80.05	1.02
			For Left Hand Threaded Rod, Add	7.80	
05 05 23 00-1259	LF		2" Diameter, 304/18-8 Stainless Steel Threaded Rod	110.62	1.07
			For Left Hand Threaded Rod, Add	10.85	

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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1260 316 Stainless Steel Threaded Rod (05 05 23 00-1197)				
05 05 23 00-1261	LF	1/4" Diameter, 316 Stainless Steel Threaded Rod.....	3.09	0.42
		For Left Hand Threaded Rod, Add	0.22	
05 05 23 00-1262	LF	5/16" Diameter, 316 Stainless Steel Threaded Rod.....	4.88	0.47
		For Left Hand Threaded Rod, Add	0.39	
05 05 23 00-1263	LF	3/8" Diameter, 316 Stainless Steel Threaded Rod.....	6.45	0.53
		For Left Hand Threaded Rod, Add	0.54	
05 05 23 00-1264	LF	7/16" Diameter, 316 Stainless Steel Threaded Rod.....	9.94	0.55
		For Left Hand Threaded Rod, Add	0.88	
05 05 23 00-1265	LF	1/2" Diameter, 316 Stainless Steel Threaded Rod.....	10.54	0.57
		For Left Hand Threaded Rod, Add	0.94	
05 05 23 00-1266	LF	9/16" Diameter, 316 Stainless Steel Threaded Rod.....	13.75	0.57
		For Left Hand Threaded Rod, Add	1.26	
05 05 23 00-1267	LF	5/8" Diameter, 316 Stainless Steel Threaded Rod.....	14.79	0.58
		For Left Hand Threaded Rod, Add	1.36	
05 05 23 00-1268	LF	3/4" Diameter, 316 Stainless Steel Threaded Rod.....	21.44	0.60
		For Left Hand Threaded Rod, Add	2.02	
05 05 23 00-1269	LF	7/8" Diameter, 316 Stainless Steel Threaded Rod.....	29.28	0.62
		For Left Hand Threaded Rod, Add	2.80	
05 05 23 00-1270	LF	1" Diameter, 316 Stainless Steel Threaded Rod.....	37.01	0.70
		For Left Hand Threaded Rod, Add	3.56	
05 05 23 00-1271	LF	1-1/4" Diameter, 316 Stainless Steel Threaded Rod.....	77.88	0.86
		For Left Hand Threaded Rod, Add	7.61	
05 05 23 00-1272	LF	1-1/2" Diameter, 316 Stainless Steel Threaded Rod.....	102.00	0.97
		For Left Hand Threaded Rod, Add	10.01	
05 05 23 00-1273 Plain Finish Steel, B-7 Alloy Threaded Rod (05 05 23 00-1197)				
05 05 23 00-1274	LF	1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	2.78	0.42
		For Zinc Plating, Add	0.96	
05 05 23 00-1275	LF	5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	4.23	0.47
		For Zinc Plating, Add	1.65	
05 05 23 00-1276	LF	3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	4.44	0.53
		For Zinc Plating, Add	1.69	
05 05 23 00-1277	LF	7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	4.83	0.55
		For Zinc Plating, Add	1.87	
05 05 23 00-1278	LF	1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	5.32	0.57
		For Zinc Plating, Add	2.09	
05 05 23 00-1279	LF	9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	6.61	0.57
		For Zinc Plating, Add	2.73	
05 05 23 00-1280	LF	5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	6.82	0.58
		For Zinc Plating, Add	2.82	
05 05 23 00-1281	LF	3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	9.01	0.60
		For Zinc Plating, Add	3.90	
05 05 23 00-1282	LF	7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	10.78	0.62
		For Zinc Plating, Add	4.76	
05 05 23 00-1283	LF	1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	13.96	0.70
		For Zinc Plating, Add	6.27	
05 05 23 00-1284	LF	1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	18.13	0.79
		For Zinc Plating, Add	8.28	
05 05 23 00-1285	LF	1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	20.18	0.86
		For Zinc Plating, Add	9.20	
05 05 23 00-1286	LF	1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	23.26	0.93
		For Zinc Plating, Add	10.71	
05 05 23 00-1287	LF	1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	28.26	0.97
		For Zinc Plating, Add	13.16	
05 05 23 00-1288	LF	1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	29.21	1.02
		For Zinc Plating, Add	13.59	
05 05 23 00-1289	LF	2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	39.14	1.07
		For Zinc Plating, Add	18.51	
05 05 23 00-1290 Nuts And Washers (05 05 23)				
05 05 23 00-1291 Hex Nuts (05 05 23 00-1290)				
05 05 23 00-1292 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1291)				
05 05 23 00-1293	EA	1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.52	0.23
05 05 23 00-1294	EA	5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.58	0.23
05 05 23 00-1295	EA	3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.62	0.23
05 05 23 00-1296	EA	7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.74	0.23
05 05 23 00-1297	EA	1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.81	0.23
05 05 23 00-1298	EA	9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.08	0.23
05 05 23 00-1299	EA	5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.13	0.23
05 05 23 00-1300	EA	3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.33	0.46
05 05 23 00-1301	EA	7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.98	0.46
05 05 23 00-1302	EA	1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.54	0.46
05 05 23 00-1303	EA	1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	4.19	0.46
05 05 23 00-1304	EA	1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.15	0.46
05 05 23 00-1305	EA	1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	7.63	0.46
05 05 23 00-1306	EA	1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	8.86	0.69



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1307	EA	1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	13.05	0.69
05 05 23 00-1308	EA	2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	18.91	0.69
05 05 23 00-1309		Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1310	EA	1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.54	0.23
05 05 23 00-1311	EA	5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.59	0.23
05 05 23 00-1312	EA	3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.65	0.23
05 05 23 00-1313	EA	7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.77	0.23
05 05 23 00-1314	EA	1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.91	0.23
05 05 23 00-1315	EA	9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.11	0.23
05 05 23 00-1316	EA	5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.15	0.23
05 05 23 00-1317	EA	3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.52	0.46
05 05 23 00-1318	EA	7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	2.17	0.46
05 05 23 00-1319	EA	1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	3.09	0.46
05 05 23 00-1320	EA	1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	4.75	0.46
05 05 23 00-1321	EA	1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	6.76	0.46
05 05 23 00-1322	EA	1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	9.98	0.46
05 05 23 00-1323	EA	1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	11.04	0.69
05 05 23 00-1324	EA	1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	20.01	0.69
05 05 23 00-1325	EA	2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	28.73	0.69
05 05 23 00-1326		Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1327	EA	1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.55	0.23
05 05 23 00-1328	EA	5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.64	0.23
05 05 23 00-1329	EA	3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.69	0.23
05 05 23 00-1330	EA	7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.89	0.23
05 05 23 00-1331	EA	1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.08	0.23
05 05 23 00-1332	EA	9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.30	0.23
05 05 23 00-1333	EA	5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.49	0.23
05 05 23 00-1334	EA	3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.86	0.46
05 05 23 00-1335	EA	7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.82	0.46
05 05 23 00-1336	EA	1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	3.78	0.46
05 05 23 00-1337	EA	1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	5.96	0.46
05 05 23 00-1338	EA	1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	7.46	0.46
05 05 23 00-1339	EA	1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	12.36	0.46
05 05 23 00-1340	EA	1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	13.12	0.69
05 05 23 00-1341	EA	1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	20.07	0.69
05 05 23 00-1342	EA	2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	28.41	0.69
05 05 23 00-1343		Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1344	EA	1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.55	0.23
05 05 23 00-1345	EA	5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.62	0.23
05 05 23 00-1346	EA	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.67	0.23
05 05 23 00-1347	EA	7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.87	0.23
05 05 23 00-1348	EA	1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.01	0.23
05 05 23 00-1349	EA	9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.12	0.23
05 05 23 00-1350	EA	5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.25	0.23
05 05 23 00-1351	EA	3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.69	0.46
05 05 23 00-1352	EA	7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.48	0.46
05 05 23 00-1353	EA	1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	3.45	0.46
05 05 23 00-1354	EA	1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	5.76	0.46
05 05 23 00-1355	EA	1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	7.42	0.46
05 05 23 00-1356	EA	1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	11.06	0.46
05 05 23 00-1357	EA	1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	12.92	0.69
05 05 23 00-1358	EA	1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	22.61	0.69
05 05 23 00-1359	EA	2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	39.21	0.69
05 05 23 00-1360		304 Stainless Steel Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1361	EA	1/4" Diameter, 304 Stainless Steel Hex Nut	0.57	0.23
05 05 23 00-1362	EA	5/16" Diameter, 304 Stainless Steel Hex Nut	0.66	0.23
05 05 23 00-1363	EA	3/8" Diameter, 304 Stainless Steel Hex Nut	0.73	0.23
05 05 23 00-1364	EA	7/16" Diameter, 304 Stainless Steel Hex Nut	1.04	0.23
05 05 23 00-1365	EA	1/2" Diameter, 304 Stainless Steel Hex Nut	1.12	0.23
05 05 23 00-1366	EA	9/16" Diameter, 304 Stainless Steel Hex Nut	1.62	0.23
05 05 23 00-1367	EA	5/8" Diameter, 304 Stainless Steel Hex Nut	1.80	0.23
05 05 23 00-1368	EA	3/4" Diameter, 304 Stainless Steel Hex Nut	2.05	0.46
05 05 23 00-1369	EA	7/8" Diameter, 304 Stainless Steel Hex Nut	3.27	0.46
05 05 23 00-1370	EA	1" Diameter, 304 Stainless Steel Hex Nut	4.95	0.46
05 05 23 00-1371	EA	1-1/4" Diameter, 304 Stainless Steel Hex Nut	11.68	0.46
05 05 23 00-1372	EA	1-1/2" Diameter, 304 Stainless Steel Hex Nut	22.24	0.69
05 05 23 00-1373	EA	1-3/4" Diameter, 304 Stainless Steel Hex Nut	38.93	0.69
05 05 23 00-1374	EA	2" Diameter, 304 Stainless Steel Hex Nut	55.37	0.69
05 05 23 00-1375		316 Stainless Steel Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1376	EA	1/4" Diameter, 316 Stainless Steel Hex Nut	0.64	0.23

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

MINOR			TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST	
05 05 23 00-1377	EA	5/16" Diameter, 316 Stainless Steel Hex Nut.....	0.73		0.23	
05 05 23 00-1378	EA	3/8" Diameter, 316 Stainless Steel Hex Nut.....	0.85		0.23	
05 05 23 00-1379	EA	7/16" Diameter, 316 Stainless Steel Hex Nut.....	1.32		0.23	
05 05 23 00-1380	EA	1/2" Diameter, 316 Stainless Steel Hex Nut.....	1.41		0.23	
05 05 23 00-1381	EA	9/16" Diameter, 316 Stainless Steel Hex Nut.....	1.87		0.23	
05 05 23 00-1382	EA	5/8" Diameter, 316 Stainless Steel Hex Nut.....	2.10		0.23	
05 05 23 00-1383	EA	3/4" Diameter, 316 Stainless Steel Hex Nut.....	2.88		0.46	
05 05 23 00-1384	EA	7/8" Diameter, 316 Stainless Steel Hex Nut.....	3.94		0.46	
05 05 23 00-1385	EA	1" Diameter, 316 Stainless Steel Hex Nut.....	6.02		0.46	
05 05 23 00-1386	EA	1-1/4" Diameter, 316 Stainless Steel Hex Nut.....	17.98		0.46	
05 05 23 00-1387	EA	1-1/2" Diameter, 316 Stainless Steel Hex Nut.....	28.96		0.69	
05 05 23 00-1388	EA	1-3/4" Diameter, 316 Stainless Steel Hex Nut.....	48.71		0.69	
05 05 23 00-1389	EA	2" Diameter, 316 Stainless Steel Hex Nut.....	90.33		0.69	
05 05 23 00-1390	Flat Washers (05 05 23 00-1290)					
05 05 23 00-1391	Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1390)					
05 05 23 00-1392	EA	1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.04			
05 05 23 00-1393	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.07			
05 05 23 00-1394	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.12			
05 05 23 00-1395	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.18			
05 05 23 00-1396	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.27			
05 05 23 00-1397	EA	9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.30			
05 05 23 00-1398	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.51			
05 05 23 00-1399	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.74			
05 05 23 00-1400	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.88			
05 05 23 00-1401	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.08			
05 05 23 00-1402	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.22			
05 05 23 00-1403	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.46			
05 05 23 00-1404	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.29			
05 05 23 00-1405	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.35			
05 05 23 00-1406	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.47			
05 05 23 00-1407	EA	2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	4.31			
05 05 23 00-1408	Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1390)					
05 05 23 00-1409	EA	1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.16			
05 05 23 00-1410	EA	5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.22			
05 05 23 00-1411	EA	3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.25			
05 05 23 00-1412	EA	7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.34			
05 05 23 00-1413	EA	1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.46			
05 05 23 00-1414	EA	9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.74			
05 05 23 00-1415	EA	5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.06			
05 05 23 00-1416	EA	3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.49			
05 05 23 00-1417	EA	7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.49			
05 05 23 00-1418	EA	1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.76			
05 05 23 00-1419	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.02			
05 05 23 00-1420	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.38			
05 05 23 00-1421	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.78			
05 05 23 00-1422	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	6.61			
05 05 23 00-1423	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	8.89			
05 05 23 00-1424	EA	2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	10.66			
05 05 23 00-1425	Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1390)					
05 05 23 00-1426	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.10			
05 05 23 00-1427	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.15			
05 05 23 00-1428	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.17			
05 05 23 00-1429	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.31			
05 05 23 00-1430	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.40			
05 05 23 00-1431	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.65			
05 05 23 00-1432	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.73			
05 05 23 00-1433	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.10			
05 05 23 00-1434	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.55			
05 05 23 00-1435	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.71			
05 05 23 00-1436	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.61			
05 05 23 00-1437	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.90			
05 05 23 00-1438	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	4.15			
05 05 23 00-1439	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	4.49			
05 05 23 00-1440	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	6.52			
05 05 23 00-1441	304/18-8 Stainless Steel Flat Washers (05 05 23 00-1390)					
05 05 23 00-1442	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.08			
05 05 23 00-1443	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.11			
05 05 23 00-1444	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.16			
05 05 23 00-1445	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.29			
05 05 23 00-1446	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.53			
05 05 23 00-1447	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.66			
05 05 23 00-1448	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.97			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1449	EA		3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.99	
05 05 23 00-1450	EA		7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.09	
05 05 23 00-1451	EA		1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.64	
05 05 23 00-1452	EA		1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	3.08	
05 05 23 00-1453	EA		1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	3.31	
05 05 23 00-1454	EA		1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	3.50	
05 05 23 00-1455	EA		1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	4.27	
05 05 23 00-1456	EA		1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	5.30	
05 05 23 00-1457	EA		2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	10.42	
05 05 23 00-1458 316 Stainless Steel Flat Washers (05 05 23 00-1390)					
05 05 23 00-1459	EA		1/4" Inside Diameter, 316 Stainless Steel Flat Washer	0.16	
05 05 23 00-1460	EA		5/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.18	
05 05 23 00-1461	EA		3/8" Inside Diameter, 316 Stainless Steel Flat Washer	0.31	
05 05 23 00-1462	EA		7/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.37	
05 05 23 00-1463	EA		1/2" Inside Diameter, 316 Stainless Steel Flat Washer	0.69	
05 05 23 00-1464	EA		9/16" Inside Diameter, 316 Stainless Steel Flat Washer	1.24	
05 05 23 00-1465	EA		5/8" Inside Diameter, 316 Stainless Steel Flat Washer	1.46	
05 05 23 00-1466	EA		3/4" Inside Diameter, 316 Stainless Steel Flat Washer	1.84	
05 05 23 00-1467	EA		7/8" Inside Diameter, 316 Stainless Steel Flat Washer	2.85	
05 05 23 00-1468	EA		1" Inside Diameter, 316 Stainless Steel Flat Washer	3.18	
05 05 23 00-1469	EA		1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer	3.62	
05 05 23 00-1470	EA		1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer	4.46	
05 05 23 00-1471	EA		1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer	4.72	
05 05 23 00-1472	EA		1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer	4.83	
05 05 23 00-1473	EA		1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer	7.07	
05 05 23 00-1474 Lock Washers (05 05 23 00-1290)					
05 05 23 00-1475 Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1474)					
05 05 23 00-1476	EA		1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.02	
05 05 23 00-1477	EA		5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.03	
05 05 23 00-1478	EA		3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.04	
05 05 23 00-1479	EA		7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.07	
05 05 23 00-1480	EA		1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.10	
05 05 23 00-1481	EA		9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.17	
05 05 23 00-1482	EA		5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.19	
05 05 23 00-1483	EA		3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.29	
05 05 23 00-1484	EA		7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.49	
05 05 23 00-1485	EA		1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.88	
05 05 23 00-1486	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.29	
05 05 23 00-1487	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.98	
05 05 23 00-1488	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	3.13	
05 05 23 00-1489	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	3.68	
05 05 23 00-1490	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	6.58	
05 05 23 00-1491	EA		2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	7.41	
05 05 23 00-1492 Hot Dipped Galvanized Steel Lock Washers (05 05 23 00-1474)					
05 05 23 00-1493	EA		1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.08	
05 05 23 00-1494	EA		5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.10	
05 05 23 00-1495	EA		3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.13	
05 05 23 00-1496	EA		7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.14	
05 05 23 00-1497	EA		1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.22	
05 05 23 00-1498	EA		9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.28	
05 05 23 00-1499	EA		5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.34	
05 05 23 00-1500	EA		3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.57	
05 05 23 00-1501	EA		7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.82	
05 05 23 00-1502	EA		1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.29	
05 05 23 00-1503	EA		1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.33	
05 05 23 00-1504	EA		1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.78	
05 05 23 00-1505	EA		1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	4.02	
05 05 23 00-1506	EA		1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	4.60	
05 05 23 00-1507	EA		1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	6.22	
05 05 23 00-1508	EA		2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	8.47	
05 05 23 00-1509 304/18-8 Stainless Steel Lock Washers (05 05 23 00-1474)					
05 05 23 00-1510	EA		1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.07	
05 05 23 00-1511	EA		5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.10	
05 05 23 00-1512	EA		3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.14	
05 05 23 00-1513	EA		7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.25	
05 05 23 00-1514	EA		1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.28	
05 05 23 00-1515	EA		9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.68	
05 05 23 00-1516	EA		5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.80	
05 05 23 00-1517	EA		3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.94	
05 05 23 00-1518	EA		7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.70	
05 05 23 00-1519	EA		1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.40	
05 05 23 00-1520	EA		1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	4.18	

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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1521	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	5.56	
05 05 23 00-1522	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	7.07	
05 05 23 00-1523	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	8.48	
05 05 23 00-1524		316 Stainless Steel Lock Washers (05 05 23 00-1474)		
05 05 23 00-1525	EA	1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.08	
05 05 23 00-1526	EA	5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.19	
05 05 23 00-1527	EA	3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.21	
05 05 23 00-1528	EA	7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.37	
05 05 23 00-1529	EA	1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.41	
05 05 23 00-1530	EA	9/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.73	
05 05 23 00-1531	EA	5/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.80	
05 05 23 00-1532	EA	3/4" Inside Diameter, 316 Stainless Steel Lock Washer	1.38	
05 05 23 00-1533	EA	7/8" Inside Diameter, 316 Stainless Steel Lock Washer	2.28	
05 05 23 00-1534	EA	1" Inside Diameter, 316 Stainless Steel Lock Washer	3.10	
05 05 23 00-1535	EA	1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	4.33	
05 05 23 00-1536	EA	1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	6.66	
05 05 23 00-1537	EA	1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	11.93	
05 05 23 00-1538	EA	1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	13.25	
05 05 23 00-1539		Load Indicating Washers (05 05 23 00-1290)		
05 05 23 00-1540		A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1539)		
05 05 23 00-1541		Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1540)		
05 05 23 00-1542	EA	1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.14	
05 05 23 00-1543	EA	5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.43	
05 05 23 00-1544	EA	3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.62	
05 05 23 00-1545	EA	7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.97	
05 05 23 00-1546	EA	1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.59	
05 05 23 00-1547	EA	1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	5.97	
05 05 23 00-1548	EA	1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	7.71	
05 05 23 00-1549	EA	1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	9.85	
05 05 23 00-1550	EA	1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	10.83	
05 05 23 00-1551		Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1540)		
05 05 23 00-1552	EA	1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.71	
05 05 23 00-1553	EA	5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.02	
05 05 23 00-1554	EA	3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.94	
05 05 23 00-1555	EA	7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.59	
05 05 23 00-1556	EA	1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.25	
05 05 23 00-1557	EA	1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	6.41	
05 05 23 00-1558	EA	1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	8.07	
05 05 23 00-1559	EA	1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	11.48	
05 05 23 00-1560	EA	1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	12.63	
05 05 23 00-1561		Beveled Washers (05 05 23 00-1290)		
05 05 23 00-1562		Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1561)		
05 05 23 00-1563	EA	1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436)	3.54	
05 05 23 00-1564	EA	5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436)	3.61	
05 05 23 00-1565	EA	3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436)	3.70	
05 05 23 00-1566	EA	7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436)	4.49	
05 05 23 00-1567	EA	1", Plain Finish, Square Beveled Structural Washer (ASTM F436)	4.73	
05 05 23 00-1568		Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1561)		
05 05 23 00-1569	EA	1/2", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.09	
05 05 23 00-1570	EA	5/8", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.32	
05 05 23 00-1571	EA	3/4", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.32	
05 05 23 00-1572	EA	7/8", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.63	
05 05 23 00-1573	EA	1", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.98	
05 05 23 00-1574		Welded Stud Anchors (05 05 23)		
05 05 23 00-1575	EA	1/4" Diameter x 1-1/8" Long, Welded Stud Concrete Anchors	2.96	
05 05 23 00-1576	EA	1/4" Diameter x 2-11/16" Long, Welded Stud Concrete Anchors	3.02	
05 05 23 00-1577	EA	1/4" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors	3.04	
05 05 23 00-1578	EA	1/4" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors	3.06	
05 05 23 00-1579	EA	3/8" Diameter x 1-3/8" Long, Welded Stud Concrete Anchors	2.95	
05 05 23 00-1580	EA	3/8" Diameter x 1-5/8" Long, Welded Stud Concrete Anchors	3.09	
05 05 23 00-1581	EA	3/8" Diameter x 2-1/8" Long, Welded Stud Concrete Anchors	3.23	
05 05 23 00-1582	EA	3/8" Diameter x 2-5/8" Long, Welded Stud Concrete Anchors	3.30	
05 05 23 00-1583	EA	3/8" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors	3.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1584 EA 3/8" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	3.67	
05 05 23 00-1585 EA 3/8" Diameter x 5-1/8" Long, Welded Stud Concrete Anchors.....	3.91	
05 05 23 00-1586 EA 3/8" Diameter x 6-1/8" Long, Welded Stud Concrete Anchors.....	4.10	
05 05 23 00-1587 EA 1/2" Diameter x 1-1/2" Long, Welded Stud Concrete Anchors.....	3.57	
05 05 23 00-1588 EA 1/2" Diameter x 1-5/8" Long, Welded Stud Concrete Anchors.....	3.59	
05 05 23 00-1589 EA 1/2" Diameter x 2-1/8" Long, Welded Stud Concrete Anchors.....	3.81	
05 05 23 00-1590 EA 1/2" Diameter x 2-5/8" Long, Welded Stud Concrete Anchors.....	4.02	
05 05 23 00-1591 EA 1/2" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors.....	4.28	
05 05 23 00-1592 EA 1/2" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	4.68	
05 05 23 00-1593 EA 1/2" Diameter x 5-5/16" Long, Welded Stud Concrete Anchors.....	4.93	
05 05 23 00-1594 EA 1/2" Diameter x 6-1/8" Long, Welded Stud Concrete Anchors.....	5.64	
05 05 23 00-1595 EA 1/2" Diameter x 8-1/8" Long, Welded Stud Concrete Anchors.....	6.96	
05 05 23 00-1596 EA 5/8" Diameter x 2-11/16" Long, Welded Stud Concrete Anchors.....	5.00	
05 05 23 00-1597 EA 5/8" Diameter x 3-3/16" Long, Welded Stud Concrete Anchors.....	5.33	
05 05 23 00-1598 EA 5/8" Diameter x 3-11/16" Long, Welded Stud Concrete Anchors.....	5.61	
05 05 23 00-1599 EA 5/8" Diameter x 4-3/16" Long, Welded Stud Concrete Anchors.....	5.88	
05 05 23 00-1600 EA 5/8" Diameter x 4-11/16" Long, Welded Stud Concrete Anchors.....	6.10	
05 05 23 00-1601 EA 5/8" Diameter x 5-3/16" Long, Welded Stud Concrete Anchors.....	6.31	
05 05 23 00-1602 EA 5/8" Diameter x 6-3/16" Long, Welded Stud Concrete Anchors.....	6.58	
05 05 23 00-1603 EA 5/8" Diameter x 6-9/16" Long, Welded Stud Concrete Anchors.....	7.71	
05 05 23 00-1604 EA 5/8" Diameter x 8-3/16" Long, Welded Stud Concrete Anchors.....	9.28	
05 05 23 00-1605 Welded Shear Stud Connector (05 05 23)		
05 05 23 00-1606 3/4" Diameter Welded Shear Stud Connector (05 05 23 00-1605)		
05 05 23 00-1607 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector	6.35	
05 05 23 00-1608 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector	6.59	
05 05 23 00-1609 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector	6.65	
05 05 23 00-1610 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector	6.69	
05 05 23 00-1611 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector	6.96	
05 05 23 00-1612 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector	7.45	
05 05 23 00-1613 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector	12.26	
05 05 23 00-1614 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector	8.03	
05 05 23 00-1615 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector	8.91	
05 05 23 00-1616 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector	11.86	
05 05 23 00-1617 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector	12.14	
05 05 23 00-1618 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector	13.09	
05 05 23 00-1619 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector	17.12	
05 05 23 00-1620 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1605)		
05 05 23 00-1621 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector	7.55	
05 05 23 00-1622 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector	7.93	
05 05 23 00-1623 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector	8.32	
05 05 23 00-1624 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector	9.42	
05 05 23 00-1625 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector	12.46	
05 05 23 00-1626 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector	13.62	
05 05 23 00-1627 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector	14.77	
05 05 23 00-1628 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector	18.00	
05 05 23 00-1629 1" Diameter Welded Shear Stud Connector (05 05 23 00-1605)		
05 05 23 00-1630 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector	10.06	
05 05 23 00-1631 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector	11.24	
05 05 23 00-1632 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector	12.98	
05 05 23 00-1633 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector	16.82	
05 05 23 00-1634 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector	18.64	
05 05 23 00-1635 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector	20.46	
05 10 Structural Metal Framing (05)		
05 12 Structural Steel Framing (05 10)		
05 12 23 Structural Steel For Buildings (05 12)		
Note: Prices are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection. Excludes moment connection welding. See CSI section 05 12 23 00-0117 for field fabrication of additional structural metal connections, 05 12 23 00-0132 for moment connection welding.		
05 12 23 00-0001 Rolled Steel Members (05 12 23)		
05 12 23 00-0002 Beams, Girders And Columns (05 12 23 00-0001)		
Note: For one and two story I beams and W shapes and HP shapes.		
05 12 23 00-0003 TON Up To 30 LB/LF Beams, Girders And Columns	6,356.68	988.46
For ASTM A242 Type 2 High Strength Steel, Add	344.94	
For Hot Dip Galvanizing, Add	1,207.30	
05 12 23 00-0004 TON >30-65 LB/LF Beams, Girders And Columns.....	4,220.35	638.97
For ASTM A242 Type 2 High Strength Steel, Add	283.10	
For Hot Dip Galvanizing, Add	990.84	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0005	TON	>65-100 LB/LF Beams, Girders And Columns..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,525.03 251.33 879.65	359.46
05 12 23 00-0006	TON	>100-300 LB/LF Beams, Girders And Columns..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2,352.16 171.81 601.34	191.33
05 12 23 00-0007		Trusses, Built-Up (05 12 23 00-0001)		
05 12 23 00-0008	TON	Built-Up Trusses, Rolled Structural Steel Members..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,476.26 300.77 1,052.68	672.24
05 12 23 00-0009		Shapes (05 12 23 00-0001)		
05 12 23 00-0010		Rolled Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0011	TON	Up To 10 LB/LF Rolled Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	9,289.38 498.14 1,743.51	1,837.54
05 12 23 00-0012	TON	>10-20 LB/LF Rolled Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	8,001.50 476.53 1,667.85	1,078.37
05 12 23 00-0013	TON	>20-58 LB/LF Rolled Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,921.45 419.19 1,467.18	638.97
05 12 23 00-0014		Rolled C, MC Steel Channels (05 12 23 00-0009)		
05 12 23 00-0015	TON	Up To 10 LB/LF Rolled C, MC Steel Channels..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	10,346.24 490.63 1,717.19	2,516.20
05 12 23 00-0016	TON	>10-20 LB/LF Rolled C, MC Steel Channels..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	7,919.26 469.95 1,644.82	1,917.10
05 12 23 00-0017	TON	>20-58 LB/LF Rolled C, MC Steel Channels..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,827.46 411.67 1,440.86	638.97
05 12 23 00-0018		Double L Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0019	TON	Up To 20 LB/LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	8,543.98 479.35 1,677.71	1,457.96
05 12 23 00-0020	TON	>20-50 LB/LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,320.90 451.15 1,579.02	638.97
05 12 23 00-0021	TON	>50-80 LB/LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,730.44 347.76 1,217.17	359.46
05 12 23 00-0022	TON	>80-115 LB/LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,023.86 225.58 789.51	191.61
05 12 23 00-0023		Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)		
05 12 23 00-0024	TON	Up To 30 LB/LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	7,684.28 451.15 1,579.02	1,078.37
05 12 23 00-0025	TON	>30-65 LB/LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,993.41 344.94 1,207.30	638.97
05 12 23 00-0026	TON	>65-100 LB/LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,908.03 281.97 986.89	359.46
05 12 23 00-0027	TON	>100-365 LB/LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2,859.70 212.42 743.46	191.33
05 12 23 00-0028		Combination Section Shapes (05 12 23 00-0001)		
05 12 23 00-0029		Combination Section, W Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0030	TON	Up To 30 LB/LF Combination Section - W Shapes And Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	7,320.07 422.01 1,477.04	1,078.37
05 12 23 00-0031	TON	>30-65 LB/LF Combination Section - W Shapes And Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,028.66 347.76 1,217.17	638.97
05 12 23 00-0032	TON	>65-100 LB/LF Combination Section - W Shapes And Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,614.31 258.47 904.65	359.46



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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0033	TON	>100-300 LB/LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,094.35 231.21 809.25	191.33
05 12 23 00-0034	TON	>300-500 LB/LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2,651.72 203.96 713.85	96.04
05 12 23 00-0035		Combination Section, S Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0036	TON	>30-65 LB/LF Combination Section - S Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,840.68 332.72 1,164.53	638.97
05 12 23 00-0037	TON	>65-100 LB/LF Combination Section - S Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,626.06 259.41 907.94	359.46
05 12 23 00-0038		Combination Section, Channels And Angles (05 12 23 00-0028)		
05 12 23 00-0039	TON	Up To 30 LB/LF Combination Section - Channels And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	7,684.28 451.15 1,579.02	1,078.37
05 12 23 00-0040	TON	>30-65 LB/LF Combination Section - Channels And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,263.63 366.56 1,282.96	638.97
05 12 23 00-0041	TON	>65-100 LB/LF Combination Section - Channels And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,708.30 265.99 930.97	359.46
05 12 23 00-0042		Standard Weight Pipe (05 12 23 00-0001)		
05 12 23 00-0043	TON	1/2" To 5" Diameter Standard Weight Pipe For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,279.07 293.25 1,026.37	575.14
05 12 23 00-0044	TON	>5" To 12" Diameter Standard Weight Pipe For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,596.91 306.41 1,072.42	718.91
05 12 23 00-0045		Structural Steel Shapes (05 12 23)		
05 12 23 00-0046		Steel Rods (05 12 23 00-0045)		
05 12 23 00-0047	TON	1/2" To 5" Diameter Extra Strong Steel, Solid For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,567.82 327.08 1,144.79	449.37
05 12 23 00-0048	TON	>5" To 12" Diameter Extra Strong Steel, Solid For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,263.63 366.56 1,282.96	638.97
05 12 23 00-0049		Column Base Plates (05 12 23 00-0045)		
05 12 23 00-0050	LB	Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2.39 0.14 0.49	0.59
05 12 23 00-0051	LB	Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2.23 0.13 0.47	0.51
05 12 23 00-0052	TON	Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,203.02 290.74 1,017.61	533.16
05 12 23 00-0053	TON	Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2,969.88 210.29 736.02	319.90
05 12 23 00-0054		Double Extra Strong Pipes (05 12 23 00-0045)		
05 12 23 00-0055	TON	2" To 5" Diameter Double Extra Strong Pipe For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,552.37 374.08 1,309.27	821.58
05 12 23 00-0056	TON	>5" To 8" Diameter Double Extra Strong Pipe For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,147.88 374.08 1,309.27	442.37
05 12 23 00-0057		Structural Pipes (05 12 23 00-0045)		
05 12 23 00-0058	TON	3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,873.67 263.17 921.10	379.59
05 12 23 00-0059	TON	>5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,255.42 263.17 921.10	437.77
05 12 23 00-0060		Structural Tubing (05 12 23 00-0045)		

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0061		Rectangle Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0062	TON	3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle.....	6,283.33	383.42
		For ASTM A242 Type 2 High Strength Steel, Add	469.95	
		For Hot Dip Galvanizing, Add	1,644.82	
05 12 23 00-0063	TON	4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle.....	6,346.25	442.37
		For ASTM A242 Type 2 High Strength Steel, Add	469.95	
		For Hot Dip Galvanizing, Add	1,644.82	
05 12 23 00-0064	TON	5" x 4", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle.....	5,563.17	479.28
		For ASTM A242 Type 2 High Strength Steel, Add	404.16	
		For Hot Dip Galvanizing, Add	1,414.54	
05 12 23 00-0065	TON	6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle	5,312.96	575.14
		For ASTM A242 Type 2 High Strength Steel, Add	375.96	
		For Hot Dip Galvanizing, Add	1,315.85	
05 12 23 00-0066	TON	7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle	5,028.66	638.97
		For ASTM A242 Type 2 High Strength Steel, Add	347.76	
		For Hot Dip Galvanizing, Add	1,217.17	
05 12 23 00-0067	TON	8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle	5,290.24	884.27
		For ASTM A242 Type 2 High Strength Steel, Add	347.76	
		For Hot Dip Galvanizing, Add	1,217.17	
05 12 23 00-0068	TON	10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle	5,687.91	1,168.96
		For ASTM A242 Type 2 High Strength Steel, Add	355.28	
		For Hot Dip Galvanizing, Add	1,243.48	
05 12 23 00-0069	TON	12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle	5,850.07	1,276.89
		For ASTM A242 Type 2 High Strength Steel, Add	359.04	
		For Hot Dip Galvanizing, Add	1,256.64	
05 12 23 00-0070	TON	14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle	6,021.69	1,437.83
		For ASTM A242 Type 2 High Strength Steel, Add	359.04	
		For Hot Dip Galvanizing, Add	1,256.64	
05 12 23 00-0071	TON	16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle	7,663.04	3,020.69
		For ASTM A242 Type 2 High Strength Steel, Add	355.28	
		For Hot Dip Galvanizing, Add	1,243.48	
05 12 23 00-0072	TON	18" x 6" Weight Range 48-76 LB/LF Structural Tubing - Rectangle.....	6,368.43	1,917.10
		For ASTM A242 Type 2 High Strength Steel, Add	345.88	
		For Hot Dip Galvanizing, Add	1,210.59	
05 12 23 00-0073	TON	20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle	9,263.04	4,410.59
		For ASTM A242 Type 2 High Strength Steel, Add	364.68	
		For Hot Dip Galvanizing, Add	1,276.38	
05 12 23 00-0074		Square Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0075	TON	2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square	6,257.77	359.46
		For ASTM A242 Type 2 High Strength Steel, Add	469.95	
		For Hot Dip Galvanizing, Add	1,644.82	
05 12 23 00-0076	TON	2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square	6,283.33	383.42
		For ASTM A242 Type 2 High Strength Steel, Add	469.95	
		For Hot Dip Galvanizing, Add	1,644.82	
05 12 23 00-0077	TON	3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square	5,680.65	479.28
		For ASTM A242 Type 2 High Strength Steel, Add	413.55	
		For Hot Dip Galvanizing, Add	1,447.44	
05 12 23 00-0078	TON	3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square	5,665.42	575.14
		For ASTM A242 Type 2 High Strength Steel, Add	404.16	
		For Hot Dip Galvanizing, Add	1,414.54	
05 12 23 00-0079	TON	4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square	4,620.41	718.91
		For ASTM A242 Type 2 High Strength Steel, Add	308.29	
		For Hot Dip Galvanizing, Add	1,079.00	
05 12 23 00-0080	TON	5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square	4,729.96	821.58
		For ASTM A242 Type 2 High Strength Steel, Add	308.29	
		For Hot Dip Galvanizing, Add	1,079.00	
05 12 23 00-0081	TON	6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square	5,080.51	1,150.26
		For ASTM A242 Type 2 High Strength Steel, Add	308.29	
		For Hot Dip Galvanizing, Add	1,079.00	
05 12 23 00-0082	TON	7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square	5,457.75	1,437.83
		For ASTM A242 Type 2 High Strength Steel, Add	313.92	
		For Hot Dip Galvanizing, Add	1,098.74	
05 12 23 00-0083	TON	8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square	6,603.40	1,917.10
		For ASTM A242 Type 2 High Strength Steel, Add	364.68	
		For Hot Dip Galvanizing, Add	1,276.38	
05 12 23 00-0084	TON	10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square	7,625.85	2,875.66
		For ASTM A242 Type 2 High Strength Steel, Add	364.68	
		For Hot Dip Galvanizing, Add	1,276.38	
05 12 23 00-0085	TON	12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square	7,524.26	3,375.16
		For ASTM A242 Type 2 High Strength Steel, Add	313.92	
		For Hot Dip Galvanizing, Add	1,098.74	
05 12 23 00-0086	TON	14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square	9,169.05	4,410.59
		For ASTM A242 Type 2 High Strength Steel, Add	357.16	
		For Hot Dip Galvanizing, Add	1,250.06	
05 12 23 00-0087	TON	16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square	10,693.22	5,751.31
		For ASTM A242 Type 2 High Strength Steel, Add	364.68	
		For Hot Dip Galvanizing, Add	1,276.38	
05 12 23 00-0088		Structural Shapes (05 12 23 00-0045)		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0089 TON Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF)..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >20 To 50 LB/LF, Deduct For >50 To 75 LB/LF, Deduct For >75 To 100 LB/LF, Deduct	6,625.05 259.19 907.17 -831.76 -1,332.27 -1,832.78	2,132.64
05 12 23 00-0090 TON Structural Shapes, Steel Plate A36 Structural Steel Note: Up to 21.5 LB per SF For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >21.5 To 50 LB/LF, Deduct	4,894.05 300.77 1,052.70 -546.12	853.05
05 12 23 00-0091 LB Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF)	2.82	0.19
05 12 23 00-0092 LB Structural Shapes, Galvanized Pipe Supports	3.40	0.19
05 12 23 00-0093 Built-Up Trusses (05 12 23 00-0045)		
05 12 23 00-0094 TON Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up.....	5,088.45	287.56
05 12 23 00-0095 TON >50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up	4,999.12	159.69
05 12 23 00-0096 TON >100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up	4,437.24	84.54
05 12 23 00-0097 TON >200 LF Span Average Weight 180 LB/LF Trusses, Built-up	4,314.73	79.94
05 12 23 00-0098 Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0045) Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0099 SF 1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	18.42	6.14
05 12 23 00-0100 SF 3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	27.63	9.18
05 12 23 00-0101 SF 1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	36.86	12.25
05 12 23 00-0102 SF 5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	46.08	15.31
05 12 23 00-0103 SF 3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	55.29	18.28
05 12 23 00-0104 SF 7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	64.50	21.43
05 12 23 00-0105 SF 1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	73.71	24.49
05 12 23 00-0106 SF 1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	82.92	27.55
05 12 23 00-0107 SF 1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	92.14	30.61
05 12 23 00-0108 SF 1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	101.35	33.68
05 12 23 00-0109 SF 1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	110.57	36.74
05 12 23 00-0110 SF 1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	119.78	39.80
05 12 23 00-0111 SF 1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	128.99	42.86
05 12 23 00-0112 SF 1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	138.21	45.92
05 12 23 00-0113 SF 2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	147.42	48.98
05 12 23 00-0114 Accessories For Steel (05 12 23)		
05 12 23 00-0115 Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0114)		
05 12 23 00-0116 SF Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	0.75	
05 12 23 00-0117 Connection And Stiffener Plates (05 12 23 00-0114) Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0118 TON 1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates.....	10,853.77	
05 12 23 00-0119 TON 3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates.....	9,260.39	
05 12 23 00-0120 TON 1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates.....	7,161.25	
05 12 23 00-0121 TON 5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates.....	7,161.25	
05 12 23 00-0122 TON 3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates.....	7,161.25	
05 12 23 00-0123 TON 1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates.....	7,161.25	
05 12 23 00-0124 TON 9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates.....	7,161.25	
05 12 23 00-0125 TON 5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates.....	7,161.25	
05 12 23 00-0126 TON 3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates.....	6,713.67	
05 12 23 00-0127 TON 7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates.....	6,713.67	
05 12 23 00-0128 TON 1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates.....	6,713.67	
05 12 23 00-0129 Spot Welding (05 12 23 00-0114) See CSI section 05 12 23 00-0132 for a series of welds.		
05 12 23 00-0130 EA Up To 15 Spot Weldings, Welds Up To 1" Length Each..... For Aluminum Welding, Add For Stainless Steel Welding, Add	9.52 1.47 2.43	
05 12 23 00-0131 EA >15 Spot Weldings, Welds Up To 1" Length Each..... For Aluminum Welding, Add For Stainless Steel Welding, Add	7.43 1.16 1.91	
05 12 23 00-0132 Field Welding (Seam And Stitch Welding) (05 12 23 00-0114)		
05 12 23 00-0133 Vertical Fillet Welds (05 12 23 00-0132) Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 12 23 00-0134 LF 1/8" Vertical Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	5.92 1.10 1.74 1.98 1.41	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0135	LF		3/16" Vertical Fillet Weld.....	11.59	
			For Aluminum Welding, Add	2.00	
			For Stainless Steel Welding, Add	3.23	
			For Up To 25, Add	3.95	
			For >25 To 50, Add	2.81	
05 12 23 00-0136	LF		1/4" Vertical Fillet Weld.....	17.38	
			For Aluminum Welding, Add	3.00	
			For Stainless Steel Welding, Add	4.84	
			For Up To 25, Add	5.92	
			For >25 To 50, Add	4.21	
05 12 23 00-0137	LF		5/16" Vertical Fillet Weld.....	22.92	
			For Aluminum Welding, Add	3.97	
			For Stainless Steel Welding, Add	6.40	
			For Up To 25, Add	7.80	
			For >25 To 50, Add	5.55	
05 12 23 00-0138	LF		3/8" Vertical Fillet Weld.....	28.97	
			For Aluminum Welding, Add	5.01	
			For Stainless Steel Welding, Add	8.07	
			For Up To 25, Add	9.86	
			For >25 To 50, Add	7.02	
05 12 23 00-0139	LF		7/16" Vertical Fillet Weld.....	33.88	
			For Aluminum Welding, Add	5.60	
			For Stainless Steel Welding, Add	9.12	
			For Up To 25, Add	11.64	
			For >25 To 50, Add	8.30	
05 12 23 00-0140	LF		1/2" Vertical Fillet Weld.....	39.60	
			For Aluminum Welding, Add	6.86	
			For Stainless Steel Welding, Add	11.06	
			For Up To 25, Add	13.48	
			For >25 To 50, Add	9.59	
05 12 23 00-0141	LF		9/16" Vertical Fillet Weld.....	46.49	
			For Aluminum Welding, Add	7.80	
			For Stainless Steel Welding, Add	12.66	
			For Up To 25, Add	15.93	
			For >25 To 50, Add	11.35	
05 12 23 00-0142	LF		5/8" Vertical Fillet Weld.....	53.89	
			For Aluminum Welding, Add	9.06	
			For Stainless Steel Welding, Add	14.70	
			For Up To 25, Add	18.45	
			For >25 To 50, Add	13.15	
05 12 23 00-0143	LF		3/4" Vertical Fillet Weld.....	72.48	
			For Aluminum Welding, Add	12.55	
			For Stainless Steel Welding, Add	20.22	
			For Up To 25, Add	24.67	
			For >25 To 50, Add	17.56	
05 12 23 00-0144	LF		7/8" Vertical Fillet Weld.....	107.63	
			For Aluminum Welding, Add	18.02	
			For Stainless Steel Welding, Add	29.25	
			For Up To 25, Add	36.89	
			For >25 To 50, Add	26.28	
05 12 23 00-0145	LF		1" Vertical Fillet Weld.....	144.58	
			For Aluminum Welding, Add	24.83	
			For Stainless Steel Welding, Add	40.07	
			For Up To 25, Add	49.30	
			For >25 To 50, Add	35.10	
05 12 23 00-0146			Horizontal Or Flat Fillet Welds (05 12 23 00-0132)		
			Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 12 23 00-0147	LF		1/8" Horizontal Or Flat Fillet Weld.....	4.96	
			For Aluminum Welding, Add	0.95	
			For Stainless Steel Welding, Add	1.50	
			For Up To 25, Add	1.65	
			For >25 To 50, Add	1.17	
05 12 23 00-0148	LF		3/16" Horizontal Or Flat Fillet Weld.....	9.78	
			For Aluminum Welding, Add	1.74	
			For Stainless Steel Welding, Add	2.79	
			For Up To 25, Add	3.31	
			For >25 To 50, Add	2.35	
05 12 23 00-0149	LF		1/4" Horizontal Or Flat Fillet Weld.....	14.63	
			For Aluminum Welding, Add	2.61	
			For Stainless Steel Welding, Add	4.18	
			For Up To 25, Add	4.95	
			For >25 To 50, Add	3.52	
05 12 23 00-0150	LF		5/16" Horizontal Or Flat Fillet Weld.....	19.31	
			For Aluminum Welding, Add	3.46	
			For Stainless Steel Welding, Add	5.53	
			For Up To 25, Add	6.52	
			For >25 To 50, Add	4.64	
05 12 23 00-0151	LF		3/8" Horizontal Or Flat Fillet Weld.....	24.41	
			For Aluminum Welding, Add	4.35	
			For Stainless Steel Welding, Add	6.97	
			For Up To 25, Add	8.26	
			For >25 To 50, Add	5.87	



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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0152	LF	7/16" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	28.44 4.82 7.80 9.72 6.93	
05 12 23 00-0153	LF	1/2" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	33.31 5.96 9.54 11.26 8.01	
05 12 23 00-0154	LF	9/16" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	39.09 6.75 10.88 13.31 9.48	
05 12 23 00-0155	LF	5/8" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	45.44 7.96 12.79 15.43 10.98	
05 12 23 00-0156	LF	3/4" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	61.02 10.91 17.45 20.62 14.67	
05 12 23 00-0157	LF	7/8" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	90.00 15.25 24.68 30.77 21.92	
05 12 23 00-0158	LF	1" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	121.32 21.49 34.44 41.09 29.23	
05 12 23 00-0159		Cold Galvanizing (05 12 23 00-0114)		
05 12 23 00-0160	SF	Brush Applied Cold Galvanizing	1.55	
05 12 23 00-0161		Metal Grinding (05 12 23 00-0114) Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0162	SI	Metal Grinding Up To 1/32" Thickness To Be Removed..... Note: Includes rust or scale removal on metal and smoothing surface.	0.84	
05 12 23 00-0163		Structural Steel For Buildings And Structures (05 12 23)		
05 12 23 00-0164		First Tier A992/A36 Structural Steel Columns, W Shapes (05 12 23 00-0163) Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0165	LF	W14 x 730 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	1,032.30 92.91 206.46	59.16
05 12 23 00-0166	LF	W14 x 665 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	941.71 84.75 188.34	55.13
05 12 23 00-0167	LF	W14 x 605 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	858.00 77.22 171.60	51.32
05 12 23 00-0168	LF	W14 x 550 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	781.14 70.30 156.23	47.74
05 12 23 00-0169	LF	W14 x 500 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	717.06 64.54 143.41	49.85
05 12 23 00-0170	LF	W14 x 426 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	611.98 55.08 122.40	43.52
05 12 23 00-0171	LF	W14 x 342 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	495.35 44.58 99.07	37.68
05 12 23 00-0172	LF	W14 x 311 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	446.39 40.18 89.28	35.18
05 12 23 00-0173	LF	W14 x 283 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	405.42 36.49 81.08	33.17
05 12 23 00-0174	LF	W14 x 257 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	356.79 32.11 71.36	31.44
05 12 23 00-0175	LF	W14 x 233 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	328.40 29.56 65.68	29.24

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0176	LF	W14 x 211 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	292.35 26.31 58.47	27.22
05 12 23 00-0177	LF	W14 x 193 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	264.67 23.82 52.93	25.89
05 12 23 00-0178	LF	W14 x 176 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	238.81 21.49 47.76	24.73
05 12 23 00-0179	LF	W14 x 159 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	216.21 19.46 43.24	23.87
05 12 23 00-0180	LF	W14 x 145 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	208.97 18.81 41.79	23.10
05 12 23 00-0181	LF	W14 x 132 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	179.15 16.12 35.83	22.05
05 12 23 00-0182	LF	W14 x 120 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	168.13 15.13 33.63	21.48
05 12 23 00-0183	LF	W14 x 109 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	150.80 13.57 30.16	20.61
05 12 23 00-0184	LF	W14 x 99 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	137.84 12.41 27.57	20.04
05 12 23 00-0185	LF	W14 x 90 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	128.23 11.54 25.65	19.55
05 12 23 00-0186	LF	W14 x 82 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	118.33 10.65 23.67	18.98
05 12 23 00-0187	LF	W14 x 74 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	107.09 9.64 21.42	18.50
05 12 23 00-0188	LF	W14 x 68 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	100.21 9.02 20.04	18.21
05 12 23 00-0189	LF	W14 x 61 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	91.61 8.24 18.32	17.73
05 12 23 00-0190	LF	W14 x 53 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	83.66 7.53 16.73	17.26
05 12 23 00-0191	LF	W14 x 48 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	78.53 7.07 15.71	16.97
05 12 23 00-0192	LF	W14 x 43 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	71.12 6.40 14.22	16.68
05 12 23 00-0193	LF	W12 x 336 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	470.61 42.35 94.12	26.34
05 12 23 00-0194	LF	W12 x 305 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	429.23 38.63 85.85	25.82
05 12 23 00-0195	LF	W12 x 279 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	394.65 35.52 78.93	25.51
05 12 23 00-0196	LF	W12 x 252 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	358.41 32.26 71.68	24.87
05 12 23 00-0197	LF	W12 x 230 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	329.05 29.61 65.81	24.51
05 12 23 00-0198	LF	W12 x 210 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	302.34 27.21 60.47	24.17
05 12 23 00-0199	LF	W12 x 190 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	278.52 25.07 55.70	26.46
05 12 23 00-0200	LF	W12 x 170 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	252.00 22.68 50.40	25.68
05 12 23 00-0201	LF	W12 x 152 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	227.30 20.46 45.46	23.87
05 12 23 00-0202	LF	W12 x 136 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	216.20 19.46 43.24	23.20
05 12 23 00-0203	LF	W12 x 120 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	164.42 14.80 32.88	21.28



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0204	LF		W12 x 106 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	151.68 13.65	20.61
			For High Strength Low Alloy A588 Grade B Steel, Add	30.34	
05 12 23 00-0205	LF		W12 x 96 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	135.97 12.24	19.94
			For High Strength Low Alloy A588 Grade B Steel, Add	27.19	
05 12 23 00-0206	LF		W12 x 87 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	125.63 11.31	19.27
			For High Strength Low Alloy A588 Grade B Steel, Add	25.13	
05 12 23 00-0207	LF		W12 x 79 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	110.57 9.95	18.69
			For High Strength Low Alloy A588 Grade B Steel, Add	22.11	
05 12 23 00-0208	LF		W12 x 72 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	101.41 9.13	18.21
			For High Strength Low Alloy A588 Grade B Steel, Add	20.28	
05 12 23 00-0209	LF		W12 x 65 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	92.91 8.36	17.83
			For High Strength Low Alloy A588 Grade B Steel, Add	18.58	
05 12 23 00-0210	LF		W12 x 58 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	89.97 8.10	17.64
			For High Strength Low Alloy A588 Grade B Steel, Add	17.99	
05 12 23 00-0211	LF		W12 x 53 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	83.66 7.53	17.26
			For High Strength Low Alloy A588 Grade B Steel, Add	16.73	
05 12 23 00-0212	LF		W12 x 50 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	81.13 7.30	17.16
			For High Strength Low Alloy A588 Grade B Steel, Add	16.23	
05 12 23 00-0213	LF		W12 x 45 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	73.94 6.65	16.77
			For High Strength Low Alloy A588 Grade B Steel, Add	14.79	
05 12 23 00-0214	LF		W12 x 40 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	66.53 5.99	16.39
			For High Strength Low Alloy A588 Grade B Steel, Add	13.31	
05 12 23 00-0215	LF		W10 x 112 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	158.54 14.27	20.99
			For High Strength Low Alloy A588 Grade B Steel, Add	31.71	
05 12 23 00-0216	LF		W10 x 110 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	143.63 12.93	20.13
			For High Strength Low Alloy A588 Grade B Steel, Add	28.73	
05 12 23 00-0217	LF		W10 x 88 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	129.34 11.64	19.46
			For High Strength Low Alloy A588 Grade B Steel, Add	25.87	
05 12 23 00-0218	LF		W10 x 77 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	115.29 10.38	18.69
			For High Strength Low Alloy A588 Grade B Steel, Add	23.06	
05 12 23 00-0219	LF		W10 x 68 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	104.05 9.36	18.21
			For High Strength Low Alloy A588 Grade B Steel, Add	20.81	
05 12 23 00-0220	LF		W10 x 60 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	91.61 8.24	17.73
			For High Strength Low Alloy A588 Grade B Steel, Add	18.32	
05 12 23 00-0221	LF		W10 x 54 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	90.97 8.19	17.45
			For High Strength Low Alloy A588 Grade B Steel, Add	18.19	
05 12 23 00-0222	LF		W10 x 49 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	80.17 7.22	17.16
			For High Strength Low Alloy A588 Grade B Steel, Add	16.03	
05 12 23 00-0223	LF		W10 x 45 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	77.45 6.97	16.87
			For High Strength Low Alloy A588 Grade B Steel, Add	15.49	
05 12 23 00-0224	LF		W10 x 39 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	67.73 6.10	16.58
			For High Strength Low Alloy A588 Grade B Steel, Add	13.55	
05 12 23 00-0225	LF		W10 x 33 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	59.34 5.34	16.10
			For High Strength Low Alloy A588 Grade B Steel, Add	11.87	
05 12 23 00-0226	LF		W8 x 67 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	100.32 9.03	18.21
			For High Strength Low Alloy A588 Grade B Steel, Add	20.06	
05 12 23 00-0227	LF		W8 x 58 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	90.30 8.13	17.64
			For High Strength Low Alloy A588 Grade B Steel, Add	18.06	
05 12 23 00-0228	LF		W8 x 48 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	81.04 7.29	17.16
			For High Strength Low Alloy A588 Grade B Steel, Add	16.21	
05 12 23 00-0229	LF		W8 x 40 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	69.91 6.29	16.68
			For High Strength Low Alloy A588 Grade B Steel, Add	13.98	
05 12 23 00-0230	LF		W8 x 35 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	63.38 5.70	16.29
			For High Strength Low Alloy A588 Grade B Steel, Add	12.68	
05 12 23 00-0231	LF		W8 x 31 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add	58.13 5.23	16.10
			For High Strength Low Alloy A588 Grade B Steel, Add	11.63	

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

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
05 12 23 00-0232	LF W8 x 28 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	54.87 4.94 10.97		15.91	
05 12 23 00-0233	LF W8 x 24 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	50.93 4.58 10.19		15.72	
05 12 23 00-0234	LF W8 x 21 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	48.33 4.35 9.67		15.63	
05 12 23 00-0235	LF W8 x 18 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	43.41 3.91 8.68		15.33	
05 12 23 00-0236	LF W6 x 25 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	53.35 4.80 10.67		15.72	
05 12 23 00-0237	LF W6 x 20 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	45.49 4.09 9.10		15.43	
05 12 23 00-0238	LF W6 x 15 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	39.30 3.54 7.86		14.95	
05 12 23 00-0239	LF W6 x 12 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	36.99 3.33 7.40		14.95	
05 12 23 00-0240	LF W6 x 9 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	34.04 3.06 6.81		14.86	
05 12 23 00-0241	LF W5 x 19 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	44.83 4.03 8.97		15.43	
05 12 23 00-0242	LF W5 x 16 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	41.45 3.73 8.29		15.33	
05 12 23 00-0243	LF W4 x 13 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	38.95 3.51 7.79		15.14	
05 12 23 00-0244	A992/A36 Structural Steel Beams And Girders, W Shapes (05 12 23 00-0163) Note: Includes material delivery and erection.				
05 12 23 00-0245	LF W36 x 300 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	351.22 31.61 70.24 2.82 -112.56 42.15		64.78	
05 12 23 00-0246	LF W36 x 280 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	339.99 30.60 68.00 2.63 -107.49 40.80		71.89	
05 12 23 00-0247	LF W36 x 260 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	322.66 29.04 64.53 2.47 -101.57 38.72		71.03	
05 12 23 00-0248	LF W36 x 240 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	301.10 27.10 60.22 2.35 -95.40 36.13		62.44	
05 12 23 00-0249	LF W36 x 230 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	292.28 26.31 58.46 2.25 -92.17 35.07		63.32	
05 12 23 00-0250	LF W36 x 210 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	278.53 25.07 55.71 2.05 -86.49 33.42		68.73	
05 12 23 00-0251	LF W36 x 194 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	262.78 23.65 52.56 1.98 -82.28 31.53		60.56	



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

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 12 23 00-0252	LF	W36 x 182 A992/A36 Structural Beam Or Girder	250.06	60.11
		For High Strength Low Alloy A572-50 Steel, Add	22.51	
		For High Strength Low Alloy A588 Steel, Add	50.01	
		For Each Additional Top Copes >2, Add	1.86	
		For Structural Tees, WT, MT Or ST, Deduct	-77.90	
		For Skewed Or Sloped Connections, Add	30.01	
05 12 23 00-0253	LF	W36 x 170 A992/A36 Structural Beam Or Girder	237.05	59.43
		For High Strength Low Alloy A572-50 Steel, Add	21.33	
		For High Strength Low Alloy A588 Steel, Add	47.41	
		For Each Additional Top Copes >2, Add	1.74	
		For Structural Tees, WT, MT Or ST, Deduct	-73.46	
		For Skewed Or Sloped Connections, Add	28.45	
05 12 23 00-0254	LF	W36 x 160 A992/A36 Structural Beam Or Girder	234.39	66.52
		For High Strength Low Alloy A572-50 Steel, Add	21.10	
		For High Strength Low Alloy A588 Steel, Add	46.88	
		For Each Additional Top Copes >2, Add	1.63	
		For Structural Tees, WT, MT Or ST, Deduct	-71.40	
		For Skewed Or Sloped Connections, Add	28.13	
05 12 23 00-0255	LF	W36 x 150 A992/A36 Structural Beam Or Girder	225.35	66.05
		For High Strength Low Alloy A572-50 Steel, Add	20.28	
		For High Strength Low Alloy A588 Steel, Add	45.07	
		For Each Additional Top Copes >2, Add	1.55	
		For Structural Tees, WT, MT Or ST, Deduct	-68.30	
		For Skewed Or Sloped Connections, Add	27.04	
05 12 23 00-0256	LF	W36 x 135 A992/A36 Structural Beam Or Girder	212.70	65.46
		For High Strength Low Alloy A572-50 Steel, Add	19.14	
		For High Strength Low Alloy A588 Steel, Add	42.54	
		For Each Additional Top Copes >2, Add	1.43	
		For Structural Tees, WT, MT Or ST, Deduct	-63.98	
		For Skewed Or Sloped Connections, Add	25.52	
05 12 23 00-0257	LF	W33 x 241 A992/A36 Structural Beam Or Girder	305.24	64.40
		For High Strength Low Alloy A572-50 Steel, Add	27.47	
		For High Strength Low Alloy A588 Steel, Add	61.05	
		For Each Additional Top Copes >2, Add	2.37	
		For Structural Tees, WT, MT Or ST, Deduct	-96.53	
		For Skewed Or Sloped Connections, Add	36.63	
05 12 23 00-0258	LF	W33 x 221 A992/A36 Structural Beam Or Girder	283.93	62.82
		For High Strength Low Alloy A572-50 Steel, Add	25.55	
		For High Strength Low Alloy A588 Steel, Add	56.79	
		For Each Additional Top Copes >2, Add	2.17	
		For Structural Tees, WT, MT Or ST, Deduct	-89.32	
		For Skewed Or Sloped Connections, Add	34.07	
05 12 23 00-0259	LF	W33 x 201 A992/A36 Structural Beam Or Girder	270.15	68.25
		For High Strength Low Alloy A572-50 Steel, Add	24.31	
		For High Strength Low Alloy A588 Steel, Add	54.03	
		For Each Additional Top Copes >2, Add	1.97	
		For Structural Tees, WT, MT Or ST, Deduct	-83.62	
		For Skewed Or Sloped Connections, Add	32.42	
05 12 23 00-0260	LF	W33 x 170 A992/A36 Structural Beam Or Girder	244.10	67.01
		For High Strength Low Alloy A572-50 Steel, Add	21.97	
		For High Strength Low Alloy A588 Steel, Add	48.82	
		For Each Additional Top Copes >2, Add	1.73	
		For Structural Tees, WT, MT Or ST, Deduct	-74.72	
		For Skewed Or Sloped Connections, Add	29.29	
05 12 23 00-0261	LF	W33 x 152 A992/A36 Structural Beam Or Girder	222.81	59.24
		For High Strength Low Alloy A572-50 Steel, Add	20.05	
		For High Strength Low Alloy A588 Steel, Add	44.56	
		For Each Additional Top Copes >2, Add	1.60	
		For Structural Tees, WT, MT Or ST, Deduct	-68.51	
		For Skewed Or Sloped Connections, Add	26.74	
05 12 23 00-0262	LF	W33 x 141 A992/A36 Structural Beam Or Girder	218.15	65.66
		For High Strength Low Alloy A572-50 Steel, Add	19.63	
		For High Strength Low Alloy A588 Steel, Add	43.63	
		For Each Additional Top Copes >2, Add	1.48	
		For Structural Tees, WT, MT Or ST, Deduct	-65.84	
		For Skewed Or Sloped Connections, Add	26.18	
05 12 23 00-0263	LF	W33 x 130 A992/A36 Structural Beam Or Girder	207.90	65.18
		For High Strength Low Alloy A572-50 Steel, Add	18.71	
		For High Strength Low Alloy A588 Steel, Add	41.58	
		For Each Additional Top Copes >2, Add	1.38	
		For Structural Tees, WT, MT Or ST, Deduct	-62.34	
		For Skewed Or Sloped Connections, Add	24.95	
05 12 23 00-0264	LF	W33 x 118 A992/A36 Structural Beam Or Girder	196.02	64.61
		For High Strength Low Alloy A572-50 Steel, Add	17.64	
		For High Strength Low Alloy A588 Steel, Add	39.20	
		For Each Additional Top Copes >2, Add	1.27	
		For Structural Tees, WT, MT Or ST, Deduct	-58.27	
		For Skewed Or Sloped Connections, Add	23.52	
05 12 23 00-0265	LF	W30 x 211 A992/A36 Structural Beam Or Girder	272.94	62.70
		For High Strength Low Alloy A572-50 Steel, Add	24.56	
		For High Strength Low Alloy A588 Steel, Add	54.59	
		For Each Additional Top Copes >2, Add	2.06	
		For Structural Tees, WT, MT Or ST, Deduct	-85.50	
		For Skewed Or Sloped Connections, Add	32.75	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0266	LF	W30 x 191 A992/A36 Structural Beam Or Girder.....	258.90	67.77
		For High Strength Low Alloy A572-50 Steel, Add	23.30	
		For High Strength Low Alloy A588 Steel, Add	51.78	
		For Each Additional Top Copes >2, Add	1.87	
		For Structural Tees, WT, MT Or ST, Deduct	-79.76	
		For Skewed Or Sloped Connections, Add	31.07	
05 12 23 00-0267	LF	W30 x 173 A992/A36 Structural Beam Or Girder.....	237.95	59.84
		For High Strength Low Alloy A572-50 Steel, Add	21.42	
		For High Strength Low Alloy A588 Steel, Add	47.59	
		For Each Additional Top Copes >2, Add	1.74	
		For Structural Tees, WT, MT Or ST, Deduct	-73.71	
		For Skewed Or Sloped Connections, Add	28.55	
05 12 23 00-0268	LF	W30 x 154 A992/A36 Structural Beam Or Girder.....	225.55	66.14
		For High Strength Low Alloy A572-50 Steel, Add	20.30	
		For High Strength Low Alloy A588 Steel, Add	45.11	
		For Each Additional Top Copes >2, Add	1.55	
		For Structural Tees, WT, MT Or ST, Deduct	-68.36	
		For Skewed Or Sloped Connections, Add	27.07	
05 12 23 00-0269	LF	W30 x 132 A992/A36 Structural Beam Or Girder.....	202.08	57.74
		For High Strength Low Alloy A572-50 Steel, Add	18.19	
		For High Strength Low Alloy A588 Steel, Add	40.42	
		For Each Additional Top Copes >2, Add	1.41	
		For Structural Tees, WT, MT Or ST, Deduct	-61.49	
		For Skewed Or Sloped Connections, Add	24.25	
05 12 23 00-0270	LF	W30 x 124 A992/A36 Structural Beam Or Girder.....	193.54	57.70
		For High Strength Low Alloy A572-50 Steel, Add	17.42	
		For High Strength Low Alloy A588 Steel, Add	38.71	
		For Each Additional Top Copes >2, Add	1.32	
		For Structural Tees, WT, MT Or ST, Deduct	-58.51	
		For Skewed Or Sloped Connections, Add	23.22	
05 12 23 00-0271	LF	W30 x 116 A992/A36 Structural Beam Or Girder.....	192.30	64.51
		For High Strength Low Alloy A572-50 Steel, Add	17.31	
		For High Strength Low Alloy A588 Steel, Add	38.46	
		For Each Additional Top Copes >2, Add	1.23	
		For Structural Tees, WT, MT Or ST, Deduct	-56.98	
		For Skewed Or Sloped Connections, Add	23.08	
05 12 23 00-0272	LF	W30 x 108 A992/A36 Structural Beam Or Girder.....	177.48	58.08
		For High Strength Low Alloy A572-50 Steel, Add	15.97	
		For High Strength Low Alloy A588 Steel, Add	35.50	
		For Each Additional Top Copes >2, Add	1.16	
		For Structural Tees, WT, MT Or ST, Deduct	-52.83	
		For Skewed Or Sloped Connections, Add	21.30	
05 12 23 00-0273	LF	W30 x 99 A992/A36 Structural Beam Or Girder	170.18	57.80
		For High Strength Low Alloy A572-50 Steel, Add	15.32	
		For High Strength Low Alloy A588 Steel, Add	34.04	
		For Each Additional Top Copes >2, Add	1.09	
		For Structural Tees, WT, MT Or ST, Deduct	-50.33	
		For Skewed Or Sloped Connections, Add	20.42	
05 12 23 00-0274	LF	W27 x 178 A992/A36 Structural Beam Or Girder.....	265.48	70.06
		For High Strength Low Alloy A572-50 Steel, Add	23.89	
		For High Strength Low Alloy A588 Steel, Add	53.10	
		For Each Additional Top Copes >2, Add	1.91	
		For Structural Tees, WT, MT Or ST, Deduct	-81.71	
		For Skewed Or Sloped Connections, Add	31.86	
05 12 23 00-0275	LF	W27 x 161 A992/A36 Structural Beam Or Girder.....	244.43	67.42
		For High Strength Low Alloy A572-50 Steel, Add	22.00	
		For High Strength Low Alloy A588 Steel, Add	48.89	
		For Each Additional Top Copes >2, Add	1.73	
		For Structural Tees, WT, MT Or ST, Deduct	-74.76	
		For Skewed Or Sloped Connections, Add	29.33	
05 12 23 00-0276	LF	W27 x 146 A992/A36 Structural Beam Or Girder.....	225.82	65.03
		For High Strength Low Alloy A572-50 Steel, Add	20.32	
		For High Strength Low Alloy A588 Steel, Add	45.16	
		For Each Additional Top Copes >2, Add	1.56	
		For Structural Tees, WT, MT Or ST, Deduct	-68.63	
		For Skewed Or Sloped Connections, Add	27.10	
05 12 23 00-0277	LF	W27 x 114 A992/A36 Structural Beam Or Girder.....	179.79	54.02
		For High Strength Low Alloy A572-50 Steel, Add	16.18	
		For High Strength Low Alloy A588 Steel, Add	35.96	
		For Each Additional Top Copes >2, Add	1.22	
		For Structural Tees, WT, MT Or ST, Deduct	-54.28	
		For Skewed Or Sloped Connections, Add	21.57	
05 12 23 00-0278	LF	W27 x 102 A992/A36 Structural Beam Or Girder.....	170.94	57.80
		For High Strength Low Alloy A572-50 Steel, Add	15.38	
		For High Strength Low Alloy A588 Steel, Add	34.19	
		For Each Additional Top Copes >2, Add	1.09	
		For Structural Tees, WT, MT Or ST, Deduct	-50.58	
		For Skewed Or Sloped Connections, Add	20.51	
05 12 23 00-0279	LF	W27 x 94 A992/A36 Structural Beam Or Girder	164.07	57.42
		For High Strength Low Alloy A572-50 Steel, Add	14.77	
		For High Strength Low Alloy A588 Steel, Add	32.81	
		For Each Additional Top Copes >2, Add	1.03	
		For Structural Tees, WT, MT Or ST, Deduct	-48.24	
		For Skewed Or Sloped Connections, Add	19.69	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0280	LF		W27 x 84 A992/A36 Structural Beam Or Girder	155.68	57.04
			For High Strength Low Alloy A572-50 Steel, Add	14.01	
			For High Strength Low Alloy A588 Steel, Add	31.14	
			For Each Additional Top Copes >2, Add	0.95	
			For Structural Tees, WT, MT Or ST, Deduct	-45.37	
			For Skewed Or Sloped Connections, Add	18.68	
05 12 23 00-0281	LF		W24 x 162 A992/A36 Structural Beam Or Girder	235.35	64.63
			For High Strength Low Alloy A572-50 Steel, Add	21.18	
			For High Strength Low Alloy A588 Steel, Add	47.07	
			For Each Additional Top Copes >2, Add	1.66	
			For Structural Tees, WT, MT Or ST, Deduct	-72.03	
			For Skewed Or Sloped Connections, Add	28.24	
05 12 23 00-0282	LF		W24 x 146 A992/A36 Structural Beam Or Girder	216.07	61.96
			For High Strength Low Alloy A572-50 Steel, Add	19.45	
			For High Strength Low Alloy A588 Steel, Add	43.21	
			For Each Additional Top Copes >2, Add	1.50	
			For Structural Tees, WT, MT Or ST, Deduct	-65.71	
			For Skewed Or Sloped Connections, Add	25.93	
05 12 23 00-0283	LF		W24 x 131 A992/A36 Structural Beam Or Girder	197.66	59.16
			For High Strength Low Alloy A572-50 Steel, Add	17.79	
			For High Strength Low Alloy A588 Steel, Add	39.53	
			For Each Additional Top Copes >2, Add	1.35	
			For Structural Tees, WT, MT Or ST, Deduct	-59.72	
			For Skewed Or Sloped Connections, Add	23.72	
05 12 23 00-0284	LF		W24 x 117 A992/A36 Structural Beam Or Girder	180.12	56.20
			For High Strength Low Alloy A572-50 Steel, Add	16.21	
			For High Strength Low Alloy A588 Steel, Add	36.02	
			For Each Additional Top Copes >2, Add	1.20	
			For Structural Tees, WT, MT Or ST, Deduct	-54.05	
			For Skewed Or Sloped Connections, Add	21.61	
05 12 23 00-0285	LF		W24 x 104 A992/A36 Structural Beam Or Girder	163.52	53.15
			For High Strength Low Alloy A572-50 Steel, Add	14.72	
			For High Strength Low Alloy A588 Steel, Add	32.70	
			For Each Additional Top Copes >2, Add	1.07	
			For Structural Tees, WT, MT Or ST, Deduct	-48.73	
			For Skewed Or Sloped Connections, Add	19.62	
05 12 23 00-0286	LF		W24 x 94 A992/A36 Structural Beam Or Girder	157.81	57.42
			For High Strength Low Alloy A572-50 Steel, Add	14.20	
			For High Strength Low Alloy A588 Steel, Add	31.56	
			For Each Additional Top Copes >2, Add	0.97	
			For Structural Tees, WT, MT Or ST, Deduct	-46.05	
			For Skewed Or Sloped Connections, Add	18.94	
05 12 23 00-0287	LF		W24 x 84 A992/A36 Structural Beam Or Girder	143.55	50.90
			For High Strength Low Alloy A572-50 Steel, Add	12.92	
			For High Strength Low Alloy A588 Steel, Add	28.71	
			For Each Additional Top Copes >2, Add	0.89	
			For Structural Tees, WT, MT Or ST, Deduct	-42.09	
			For Skewed Or Sloped Connections, Add	17.23	
05 12 23 00-0288	LF		W24 x 76 A992/A36 Structural Beam Or Girder	137.13	50.51
			For High Strength Low Alloy A572-50 Steel, Add	12.34	
			For High Strength Low Alloy A588 Steel, Add	27.43	
			For Each Additional Top Copes >2, Add	0.83	
			For Structural Tees, WT, MT Or ST, Deduct	-39.90	
			For Skewed Or Sloped Connections, Add	16.46	
05 12 23 00-0289	LF		W24 x 68 A992/A36 Structural Beam Or Girder	129.05	50.23
			For High Strength Low Alloy A572-50 Steel, Add	11.61	
			For High Strength Low Alloy A588 Steel, Add	25.81	
			For Each Additional Top Copes >2, Add	0.75	
			For Structural Tees, WT, MT Or ST, Deduct	-37.13	
			For Skewed Or Sloped Connections, Add	15.49	
05 12 23 00-0290	LF		W24 x 62 A992/A36 Structural Beam Or Girder	124.80	49.94
			For High Strength Low Alloy A572-50 Steel, Add	11.23	
			For High Strength Low Alloy A588 Steel, Add	24.96	
			For Each Additional Top Copes >2, Add	0.72	
			For Structural Tees, WT, MT Or ST, Deduct	-35.69	
			For Skewed Or Sloped Connections, Add	14.98	
05 12 23 00-0291	LF		W24 x 55 A992/A36 Structural Beam Or Girder	119.03	49.75
			For High Strength Low Alloy A572-50 Steel, Add	10.71	
			For High Strength Low Alloy A588 Steel, Add	23.81	
			For Each Additional Top Copes >2, Add	0.66	
			For Structural Tees, WT, MT Or ST, Deduct	-33.71	
			For Skewed Or Sloped Connections, Add	14.28	
05 12 23 00-0292	LF		W21 x 147 A992/A36 Structural Beam Or Girder	204.98	53.16
			For High Strength Low Alloy A572-50 Steel, Add	18.45	
			For High Strength Low Alloy A588 Steel, Add	41.00	
			For Each Additional Top Copes >2, Add	1.48	
			For Structural Tees, WT, MT Or ST, Deduct	-63.24	
			For Skewed Or Sloped Connections, Add	24.60	
05 12 23 00-0293	LF		W21 x 132 A992/A36 Structural Beam Or Girder	187.32	50.78
			For High Strength Low Alloy A572-50 Steel, Add	16.86	
			For High Strength Low Alloy A588 Steel, Add	37.46	
			For Each Additional Top Copes >2, Add	1.33	
			For Structural Tees, WT, MT Or ST, Deduct	-57.44	
			For Skewed Or Sloped Connections, Add	22.48	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0294 LF W21 x 122 A992/A36 Structural Beam Or Girder.....	176.33	49.93
For High Strength Low Alloy A572-50 Steel, Add	15.87	
For High Strength Low Alloy A588 Steel, Add	35.27	
For Each Additional Top Copes >2, Add	1.23	
For Structural Tees, WT, MT Or ST, Deduct	-53.73	
For Skewed Or Sloped Connections, Add	21.16	
05 12 23 00-0295 LF W21 x 111 A992/A36 Structural Beam Or Girder.....	163.52	48.33
For High Strength Low Alloy A572-50 Steel, Add	14.72	
For High Strength Low Alloy A588 Steel, Add	32.70	
For Each Additional Top Copes >2, Add	1.12	
For Structural Tees, WT, MT Or ST, Deduct	-49.50	
For Skewed Or Sloped Connections, Add	19.62	
05 12 23 00-0296 LF W21 x 101 A992/A36 Structural Beam Or Girder.....	151.78	46.79
For High Strength Low Alloy A572-50 Steel, Add	13.66	
For High Strength Low Alloy A588 Steel, Add	30.36	
For Each Additional Top Copes >2, Add	1.02	
For Structural Tees, WT, MT Or ST, Deduct	-45.64	
For Skewed Or Sloped Connections, Add	18.21	
05 12 23 00-0297 LF W21 x 93 A992/A36 Structural Beam Or Girder	148.73	51.47
For High Strength Low Alloy A572-50 Steel, Add	13.39	
For High Strength Low Alloy A588 Steel, Add	29.75	
For Each Additional Top Copes >2, Add	0.94	
For Structural Tees, WT, MT Or ST, Deduct	-43.82	
For Skewed Or Sloped Connections, Add	17.85	
05 12 23 00-0298 LF W21 x 83 A992/A36 Structural Beam Or Girder	141.13	50.90
For High Strength Low Alloy A572-50 Steel, Add	12.70	
For High Strength Low Alloy A588 Steel, Add	28.23	
For Each Additional Top Copes >2, Add	0.87	
For Structural Tees, WT, MT Or ST, Deduct	-41.24	
For Skewed Or Sloped Connections, Add	16.94	
05 12 23 00-0299 LF W21 x 73 A992/A36 Structural Beam Or Girder	131.86	50.51
For High Strength Low Alloy A572-50 Steel, Add	11.87	
For High Strength Low Alloy A588 Steel, Add	26.37	
For Each Additional Top Copes >2, Add	0.78	
For Structural Tees, WT, MT Or ST, Deduct	-38.07	
For Skewed Or Sloped Connections, Add	15.82	
05 12 23 00-0300 LF W21 x 68 A992/A36 Structural Beam Or Girder	127.18	50.23
For High Strength Low Alloy A572-50 Steel, Add	11.45	
For High Strength Low Alloy A588 Steel, Add	25.44	
For Each Additional Top Copes >2, Add	0.74	
For Structural Tees, WT, MT Or ST, Deduct	-36.48	
For Skewed Or Sloped Connections, Add	15.26	
05 12 23 00-0301 LF W21 x 62 A992/A36 Structural Beam Or Girder	122.94	49.94
For High Strength Low Alloy A572-50 Steel, Add	11.06	
For High Strength Low Alloy A588 Steel, Add	24.59	
For Each Additional Top Copes >2, Add	0.70	
For Structural Tees, WT, MT Or ST, Deduct	-35.04	
For Skewed Or Sloped Connections, Add	14.75	
05 12 23 00-0302 LF W21 x 57 A992/A36 Structural Beam Or Girder	119.12	49.85
For High Strength Low Alloy A572-50 Steel, Add	10.72	
For High Strength Low Alloy A588 Steel, Add	23.82	
For Each Additional Top Copes >2, Add	0.66	
For Structural Tees, WT, MT Or ST, Deduct	-33.73	
For Skewed Or Sloped Connections, Add	14.29	
05 12 23 00-0303 LF W21 x 50 A992/A36 Structural Beam Or Girder	105.41	43.23
For High Strength Low Alloy A572-50 Steel, Add	9.49	
For High Strength Low Alloy A588 Steel, Add	21.08	
For Each Additional Top Copes >2, Add	0.59	
For Structural Tees, WT, MT Or ST, Deduct	-29.96	
For Skewed Or Sloped Connections, Add	12.65	
05 12 23 00-0304 LF W21 x 44 A992/A36 Structural Beam Or Girder	100.94	43.04
For High Strength Low Alloy A572-50 Steel, Add	9.08	
For High Strength Low Alloy A588 Steel, Add	20.19	
For Each Additional Top Copes >2, Add	0.55	
For Structural Tees, WT, MT Or ST, Deduct	-28.44	
For Skewed Or Sloped Connections, Add	12.11	
05 12 23 00-0305 LF W18 x 119 A992/A36 Structural Beam Or Girder.....	171.81	49.75
For High Strength Low Alloy A572-50 Steel, Add	15.46	
For High Strength Low Alloy A588 Steel, Add	34.36	
For Each Additional Top Copes >2, Add	1.19	
For Structural Tees, WT, MT Or ST, Deduct	-52.17	
For Skewed Or Sloped Connections, Add	20.62	
05 12 23 00-0306 LF W18 x 106 A992/A36 Structural Beam Or Girder.....	156.06	47.16
For High Strength Low Alloy A572-50 Steel, Add	14.05	
For High Strength Low Alloy A588 Steel, Add	31.21	
For Each Additional Top Copes >2, Add	1.06	
For Structural Tees, WT, MT Or ST, Deduct	-47.08	
For Skewed Or Sloped Connections, Add	18.73	
05 12 23 00-0307 LF W18 x 97 A992/A36 Structural Beam Or Girder	151.80	51.47
For High Strength Low Alloy A572-50 Steel, Add	13.66	
For High Strength Low Alloy A588 Steel, Add	30.36	
For Each Additional Top Copes >2, Add	0.97	
For Structural Tees, WT, MT Or ST, Deduct	-44.88	
For Skewed Or Sloped Connections, Add	18.22	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0308	LF		W18 x 86 A992/A36 Structural Beam Or Girder	143.10	51.00
			For High Strength Low Alloy A572-50 Steel, Add	12.88	
			For High Strength Low Alloy A588 Steel, Add	28.62	
			For Each Additional Top Copes >2, Add	0.89	
			For Structural Tees, WT, MT Or ST, Deduct	-41.92	
			For Skewed Or Sloped Connections, Add	17.17	
05 12 23 00-0309	LF		W18 x 76 A992/A36 Structural Beam Or Girder	135.26	50.51
			For High Strength Low Alloy A572-50 Steel, Add	12.17	
			For High Strength Low Alloy A588 Steel, Add	27.05	
			For Each Additional Top Copes >2, Add	0.81	
			For Structural Tees, WT, MT Or ST, Deduct	-39.25	
			For Skewed Or Sloped Connections, Add	16.23	
05 12 23 00-0310	LF		W18 x 71 A992/A36 Structural Beam Or Girder	129.58	50.42
			For High Strength Low Alloy A572-50 Steel, Add	11.66	
			For High Strength Low Alloy A588 Steel, Add	25.92	
			For Each Additional Top Copes >2, Add	0.76	
			For Structural Tees, WT, MT Or ST, Deduct	-37.29	
			For Skewed Or Sloped Connections, Add	15.55	
05 12 23 00-0311	LF		W18 x 65 A992/A36 Structural Beam Or Girder	124.00	50.23
			For High Strength Low Alloy A572-50 Steel, Add	11.16	
			For High Strength Low Alloy A588 Steel, Add	24.80	
			For Each Additional Top Copes >2, Add	0.71	
			For Structural Tees, WT, MT Or ST, Deduct	-35.38	
			For Skewed Or Sloped Connections, Add	14.88	
05 12 23 00-0312	LF		W18 x 60 A992/A36 Structural Beam Or Girder	119.00	49.85
			For High Strength Low Alloy A572-50 Steel, Add	10.71	
			For High Strength Low Alloy A588 Steel, Add	23.80	
			For Each Additional Top Copes >2, Add	0.66	
			For Structural Tees, WT, MT Or ST, Deduct	-33.67	
			For Skewed Or Sloped Connections, Add	14.28	
05 12 23 00-0313	LF		W18 x 55 A992/A36 Structural Beam Or Girder	113.98	49.75
			For High Strength Low Alloy A572-50 Steel, Add	10.26	
			For High Strength Low Alloy A588 Steel, Add	22.80	
			For Each Additional Top Copes >2, Add	0.61	
			For Structural Tees, WT, MT Or ST, Deduct	-31.94	
			For Skewed Or Sloped Connections, Add	13.68	
05 12 23 00-0314	LF		W18 x 50 A992/A36 Structural Beam Or Girder	102.33	43.23
			For High Strength Low Alloy A572-50 Steel, Add	9.21	
			For High Strength Low Alloy A588 Steel, Add	20.47	
			For Each Additional Top Copes >2, Add	0.56	
			For Structural Tees, WT, MT Or ST, Deduct	-28.89	
			For Skewed Or Sloped Connections, Add	12.28	
05 12 23 00-0315	LF		W18 x 46 A992/A36 Structural Beam Or Girder	98.41	43.13
			For High Strength Low Alloy A572-50 Steel, Add	8.86	
			For High Strength Low Alloy A588 Steel, Add	19.68	
			For Each Additional Top Copes >2, Add	0.52	
			For Structural Tees, WT, MT Or ST, Deduct	-27.54	
			For Skewed Or Sloped Connections, Add	11.81	
05 12 23 00-0316	LF		W18 x 40 A992/A36 Structural Beam Or Girder	85.88	36.81
			For High Strength Low Alloy A572-50 Steel, Add	7.73	
			For High Strength Low Alloy A588 Steel, Add	17.18	
			For Each Additional Top Copes >2, Add	0.47	
			For Structural Tees, WT, MT Or ST, Deduct	-24.16	
			For Skewed Or Sloped Connections, Add	10.31	
05 12 23 00-0317	LF		W18 x 35 A992/A36 Structural Beam Or Girder	80.96	36.71
			For High Strength Low Alloy A572-50 Steel, Add	7.29	
			For High Strength Low Alloy A588 Steel, Add	16.19	
			For Each Additional Top Copes >2, Add	0.42	
			For Structural Tees, WT, MT Or ST, Deduct	-22.47	
			For Skewed Or Sloped Connections, Add	9.72	
05 12 23 00-0318	LF		W16 x 100 A992/A36 Structural Beam Or Girder	139.69	33.46
			For High Strength Low Alloy A572-50 Steel, Add	12.57	
			For High Strength Low Alloy A588 Steel, Add	27.94	
			For Each Additional Top Copes >2, Add	1.04	
			For Structural Tees, WT, MT Or ST, Deduct	-43.54	
			For Skewed Or Sloped Connections, Add	16.76	
05 12 23 00-0319	LF		W16 x 89 A992/A36 Structural Beam Or Girder	128.56	32.88
			For High Strength Low Alloy A572-50 Steel, Add	11.57	
			For High Strength Low Alloy A588 Steel, Add	25.71	
			For Each Additional Top Copes >2, Add	0.93	
			For Structural Tees, WT, MT Or ST, Deduct	-39.73	
			For Skewed Or Sloped Connections, Add	15.43	
05 12 23 00-0320	LF		W16 x 77 A992/A36 Structural Beam Or Girder	116.66	32.49
			For High Strength Low Alloy A572-50 Steel, Add	10.50	
			For High Strength Low Alloy A588 Steel, Add	23.33	
			For Each Additional Top Copes >2, Add	0.82	
			For Structural Tees, WT, MT Or ST, Deduct	-35.64	
			For Skewed Or Sloped Connections, Add	14.00	
05 12 23 00-0321	LF		W16 x 67 A992/A36 Structural Beam Or Girder	106.51	32.02
			For High Strength Low Alloy A572-50 Steel, Add	9.59	
			For High Strength Low Alloy A588 Steel, Add	21.30	
			For Each Additional Top Copes >2, Add	0.72	
			For Structural Tees, WT, MT Or ST, Deduct	-32.16	
			For Skewed Or Sloped Connections, Add	12.78	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0322	LF	W16 x 57 A992/A36 Structural Beam Or Girder	96.48	31.53
		For High Strength Low Alloy A572-50 Steel, Add	8.68	
		For High Strength Low Alloy A588 Steel, Add	19.30	
		For Each Additional Top Copes >2, Add	0.63	
		For Structural Tees, WT, MT Or ST, Deduct	-28.72	
		For Skewed Or Sloped Connections, Add	11.58	
05 12 23 00-0323	LF	W16 x 50 A992/A36 Structural Beam Or Girder	89.49	31.25
		For High Strength Low Alloy A572-50 Steel, Add	8.05	
		For High Strength Low Alloy A588 Steel, Add	17.90	
		For Each Additional Top Copes >2, Add	0.56	
		For Structural Tees, WT, MT Or ST, Deduct	-26.32	
		For Skewed Or Sloped Connections, Add	10.74	
05 12 23 00-0324	LF	W16 x 45 A992/A36 Structural Beam Or Girder	84.57	31.06
		For High Strength Low Alloy A572-50 Steel, Add	7.61	
		For High Strength Low Alloy A588 Steel, Add	16.91	
		For Each Additional Top Copes >2, Add	0.51	
		For Structural Tees, WT, MT Or ST, Deduct	-24.63	
		For Skewed Or Sloped Connections, Add	10.15	
05 12 23 00-0325	LF	W16 x 40 A992/A36 Structural Beam Or Girder	79.46	30.77
		For High Strength Low Alloy A572-50 Steel, Add	7.15	
		For High Strength Low Alloy A588 Steel, Add	15.89	
		For Each Additional Top Copes >2, Add	0.47	
		For Structural Tees, WT, MT Or ST, Deduct	-22.88	
		For Skewed Or Sloped Connections, Add	9.54	
05 12 23 00-0326	LF	W16 x 36 A992/A36 Structural Beam Or Girder	75.43	30.58
		For High Strength Low Alloy A572-50 Steel, Add	6.79	
		For High Strength Low Alloy A588 Steel, Add	15.09	
		For Each Additional Top Copes >2, Add	0.43	
		For Structural Tees, WT, MT Or ST, Deduct	-21.51	
		For Skewed Or Sloped Connections, Add	9.05	
05 12 23 00-0327	LF	W16 x 31 A992/A36 Structural Beam Or Girder	63.99	24.35
		For High Strength Low Alloy A572-50 Steel, Add	5.76	
		For High Strength Low Alloy A588 Steel, Add	12.80	
		For Each Additional Top Copes >2, Add	0.38	
		For Structural Tees, WT, MT Or ST, Deduct	-18.50	
		For Skewed Or Sloped Connections, Add	7.68	
05 12 23 00-0328	LF	W16 x 26 A992/A36 Structural Beam Or Girder	57.55	24.06
		For High Strength Low Alloy A572-50 Steel, Add	5.18	
		For High Strength Low Alloy A588 Steel, Add	11.51	
		For Each Additional Top Copes >2, Add	0.32	
		For Structural Tees, WT, MT Or ST, Deduct	-16.29	
		For Skewed Or Sloped Connections, Add	6.91	
05 12 23 00-0329	LF	W14 x 99 A992/A36 Structural Beam Or Girder	132.28	27.42
		For High Strength Low Alloy A572-50 Steel, Add	11.91	
		For High Strength Low Alloy A588 Steel, Add	26.46	
		For Each Additional Top Copes >2, Add	1.03	
		For Structural Tees, WT, MT Or ST, Deduct	-41.91	
		For Skewed Or Sloped Connections, Add	15.87	
05 12 23 00-0330	LF	W14 x 90 A992/A36 Structural Beam Or Girder	123.22	26.93
		For High Strength Low Alloy A572-50 Steel, Add	11.09	
		For High Strength Low Alloy A588 Steel, Add	24.64	
		For Each Additional Top Copes >2, Add	0.94	
		For Structural Tees, WT, MT Or ST, Deduct	-38.81	
		For Skewed Or Sloped Connections, Add	14.79	
05 12 23 00-0331	LF	W14 x 82 A992/A36 Structural Beam Or Girder	115.15	26.65
		For High Strength Low Alloy A572-50 Steel, Add	10.36	
		For High Strength Low Alloy A588 Steel, Add	23.03	
		For Each Additional Top Copes >2, Add	0.87	
		For Structural Tees, WT, MT Or ST, Deduct	-36.05	
		For Skewed Or Sloped Connections, Add	13.82	
05 12 23 00-0332	LF	W14 x 74 A992/A36 Structural Beam Or Girder	107.09	26.27
		For High Strength Low Alloy A572-50 Steel, Add	9.64	
		For High Strength Low Alloy A588 Steel, Add	21.42	
		For Each Additional Top Copes >2, Add	0.79	
		For Structural Tees, WT, MT Or ST, Deduct	-33.28	
		For Skewed Or Sloped Connections, Add	12.85	
05 12 23 00-0333	LF	W14 x 68 A992/A36 Structural Beam Or Girder	101.08	25.98
		For High Strength Low Alloy A572-50 Steel, Add	9.10	
		For High Strength Low Alloy A588 Steel, Add	20.22	
		For Each Additional Top Copes >2, Add	0.73	
		For Structural Tees, WT, MT Or ST, Deduct	-31.22	
		For Skewed Or Sloped Connections, Add	12.13	
05 12 23 00-0334	LF	W14 x 61 A992/A36 Structural Beam Or Girder	94.10	25.68
		For High Strength Low Alloy A572-50 Steel, Add	8.47	
		For High Strength Low Alloy A588 Steel, Add	18.82	
		For Each Additional Top Copes >2, Add	0.67	
		For Structural Tees, WT, MT Or ST, Deduct	-28.82	
		For Skewed Or Sloped Connections, Add	11.29	
05 12 23 00-0335	LF	W14 x 53 A992/A36 Structural Beam Or Girder	86.13	25.30
		For High Strength Low Alloy A572-50 Steel, Add	7.75	
		For High Strength Low Alloy A588 Steel, Add	17.23	
		For Each Additional Top Copes >2, Add	0.59	
		For Structural Tees, WT, MT Or ST, Deduct	-26.09	
		For Skewed Or Sloped Connections, Add	10.34	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0336	LF		W14 x 48 A992/A36 Structural Beam Or Girder	81.01	25.02
			For High Strength Low Alloy A572-50 Steel, Add	7.29	
			For High Strength Low Alloy A588 Steel, Add	16.20	
			For Each Additional Top Copes >2, Add	0.54	
			For Structural Tees, WT, MT Or ST, Deduct	-24.34	
			For Skewed Or Sloped Connections, Add	9.72	
05 12 23 00-0337	LF		W14 x 43 A992/A36 Structural Beam Or Girder	75.98	24.92
			For High Strength Low Alloy A572-50 Steel, Add	6.84	
			For High Strength Low Alloy A588 Steel, Add	15.20	
			For Each Additional Top Copes >2, Add	0.49	
			For Structural Tees, WT, MT Or ST, Deduct	-22.61	
			For Skewed Or Sloped Connections, Add	9.12	
05 12 23 00-0338	LF		W14 x 38 A992/A36 Structural Beam Or Girder	70.98	24.73
			For High Strength Low Alloy A572-50 Steel, Add	6.39	
			For High Strength Low Alloy A588 Steel, Add	14.20	
			For Each Additional Top Copes >2, Add	0.45	
			For Structural Tees, WT, MT Or ST, Deduct	-20.90	
			For Skewed Or Sloped Connections, Add	8.52	
05 12 23 00-0339	LF		W14 x 34 A992/A36 Structural Beam Or Girder	66.94	24.45
			For High Strength Low Alloy A572-50 Steel, Add	6.02	
			For High Strength Low Alloy A588 Steel, Add	13.39	
			For Each Additional Top Copes >2, Add	0.41	
			For Structural Tees, WT, MT Or ST, Deduct	-19.52	
			For Skewed Or Sloped Connections, Add	8.03	
05 12 23 00-0340	LF		W14 x 30 A992/A36 Structural Beam Or Girder	62.91	24.35
			For High Strength Low Alloy A572-50 Steel, Add	5.66	
			For High Strength Low Alloy A588 Steel, Add	12.58	
			For Each Additional Top Copes >2, Add	0.37	
			For Structural Tees, WT, MT Or ST, Deduct	-18.14	
			For Skewed Or Sloped Connections, Add	7.55	
05 12 23 00-0341	LF		W14 x 26 A992/A36 Structural Beam Or Girder	58.85	24.06
			For High Strength Low Alloy A572-50 Steel, Add	5.30	
			For High Strength Low Alloy A588 Steel, Add	11.77	
			For Each Additional Top Copes >2, Add	0.33	
			For Structural Tees, WT, MT Or ST, Deduct	-16.75	
			For Skewed Or Sloped Connections, Add	7.06	
05 12 23 00-0342	LF		W14 x 22 A992/A36 Structural Beam Or Girder	54.93	23.96
			For High Strength Low Alloy A572-50 Steel, Add	4.94	
			For High Strength Low Alloy A588 Steel, Add	10.99	
			For Each Additional Top Copes >2, Add	0.29	
			For Structural Tees, WT, MT Or ST, Deduct	-15.40	
			For Skewed Or Sloped Connections, Add	6.59	
05 12 23 00-0343	LF		W12 x 87 A992/A36 Structural Beam Or Girder	120.28	26.84
			For High Strength Low Alloy A572-50 Steel, Add	10.83	
			For High Strength Low Alloy A588 Steel, Add	24.06	
			For Each Additional Top Copes >2, Add	0.92	
			For Structural Tees, WT, MT Or ST, Deduct	-37.80	
			For Skewed Or Sloped Connections, Add	14.43	
05 12 23 00-0344	LF		W12 x 79 A992/A36 Structural Beam Or Girder	112.21	26.46
			For High Strength Low Alloy A572-50 Steel, Add	10.10	
			For High Strength Low Alloy A588 Steel, Add	22.44	
			For Each Additional Top Copes >2, Add	0.84	
			For Structural Tees, WT, MT Or ST, Deduct	-35.03	
			For Skewed Or Sloped Connections, Add	13.47	
05 12 23 00-0345	LF		W12 x 72 A992/A36 Structural Beam Or Girder	105.11	26.17
			For High Strength Low Alloy A572-50 Steel, Add	9.46	
			For High Strength Low Alloy A588 Steel, Add	21.02	
			For Each Additional Top Copes >2, Add	0.77	
			For Structural Tees, WT, MT Or ST, Deduct	-32.61	
			For Skewed Or Sloped Connections, Add	12.61	
05 12 23 00-0346	LF		W12 x 65 A992/A36 Structural Beam Or Girder	98.13	25.89
			For High Strength Low Alloy A572-50 Steel, Add	8.83	
			For High Strength Low Alloy A588 Steel, Add	19.63	
			For Each Additional Top Copes >2, Add	0.71	
			For Structural Tees, WT, MT Or ST, Deduct	-30.20	
			For Skewed Or Sloped Connections, Add	11.78	
05 12 23 00-0347	LF		W12 x 58 A992/A36 Structural Beam Or Girder	91.04	25.49
			For High Strength Low Alloy A572-50 Steel, Add	8.19	
			For High Strength Low Alloy A588 Steel, Add	18.21	
			For Each Additional Top Copes >2, Add	0.64	
			For Structural Tees, WT, MT Or ST, Deduct	-27.78	
			For Skewed Or Sloped Connections, Add	10.92	
05 12 23 00-0348	LF		W12 x 53 A992/A36 Structural Beam Or Girder	86.13	25.30
			For High Strength Low Alloy A572-50 Steel, Add	7.75	
			For High Strength Low Alloy A588 Steel, Add	17.23	
			For Each Additional Top Copes >2, Add	0.59	
			For Structural Tees, WT, MT Or ST, Deduct	-26.09	
			For Skewed Or Sloped Connections, Add	10.34	
05 12 23 00-0349	LF		W12 x 50 A992/A36 Structural Beam Or Girder	82.97	25.21
			For High Strength Low Alloy A572-50 Steel, Add	7.47	
			For High Strength Low Alloy A588 Steel, Add	16.59	
			For Each Additional Top Copes >2, Add	0.56	
			For Structural Tees, WT, MT Or ST, Deduct	-25.01	
			For Skewed Or Sloped Connections, Add	9.96	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0350 LF W12 x 45 A992/A36 Structural Beam Or Girder	78.06	25.02
For High Strength Low Alloy A572-50 Steel, Add	7.03	
For High Strength Low Alloy A588 Steel, Add	15.61	
For Each Additional Top Copes >2, Add	0.51	
For Structural Tees, WT, MT Or ST, Deduct	-23.32	
For Skewed Or Sloped Connections, Add	9.37	
05 12 23 00-0351 LF W12 x 40 A992/A36 Structural Beam Or Girder	66.42	18.60
For High Strength Low Alloy A572-50 Steel, Add	5.98	
For High Strength Low Alloy A588 Steel, Add	13.28	
For Each Additional Top Copes >2, Add	0.47	
For Structural Tees, WT, MT Or ST, Deduct	-20.27	
For Skewed Or Sloped Connections, Add	7.97	
05 12 23 00-0352 LF W12 x 35 A992/A36 Structural Beam Or Girder	61.50	18.50
For High Strength Low Alloy A572-50 Steel, Add	5.54	
For High Strength Low Alloy A588 Steel, Add	12.30	
For Each Additional Top Copes >2, Add	0.42	
For Structural Tees, WT, MT Or ST, Deduct	-18.58	
For Skewed Or Sloped Connections, Add	7.38	
05 12 23 00-0353 LF W12 x 30 A992/A36 Structural Beam Or Girder	56.38	18.21
For High Strength Low Alloy A572-50 Steel, Add	5.07	
For High Strength Low Alloy A588 Steel, Add	11.28	
For Each Additional Top Copes >2, Add	0.37	
For Structural Tees, WT, MT Or ST, Deduct	-16.83	
For Skewed Or Sloped Connections, Add	6.77	
05 12 23 00-0354 LF W12 x 26 A992/A36 Structural Beam Or Girder	52.34	18.02
For High Strength Low Alloy A572-50 Steel, Add	4.71	
For High Strength Low Alloy A588 Steel, Add	10.47	
For Each Additional Top Copes >2, Add	0.33	
For Structural Tees, WT, MT Or ST, Deduct	-15.44	
For Skewed Or Sloped Connections, Add	6.28	
05 12 23 00-0355 LF W12 x 22 A992/A36 Structural Beam Or Girder	48.42	17.83
For High Strength Low Alloy A572-50 Steel, Add	4.36	
For High Strength Low Alloy A588 Steel, Add	9.68	
For Each Additional Top Copes >2, Add	0.29	
For Structural Tees, WT, MT Or ST, Deduct	-14.10	
For Skewed Or Sloped Connections, Add	5.81	
05 12 23 00-0356 LF W12 x 19 A992/A36 Structural Beam Or Girder	45.36	17.73
For High Strength Low Alloy A572-50 Steel, Add	4.08	
For High Strength Low Alloy A588 Steel, Add	9.07	
For Each Additional Top Copes >2, Add	0.26	
For Structural Tees, WT, MT Or ST, Deduct	-13.04	
For Skewed Or Sloped Connections, Add	5.44	
05 12 23 00-0357 LF W12 x 16 A992/A36 Structural Beam Or Girder	42.31	17.45
For High Strength Low Alloy A572-50 Steel, Add	3.81	
For High Strength Low Alloy A588 Steel, Add	8.46	
For Each Additional Top Copes >2, Add	0.24	
For Structural Tees, WT, MT Or ST, Deduct	-12.01	
For Skewed Or Sloped Connections, Add	5.08	
05 12 23 00-0358 LF W12 x 14 A992/A36 Structural Beam Or Girder	40.35	17.45
For High Strength Low Alloy A572-50 Steel, Add	3.63	
For High Strength Low Alloy A588 Steel, Add	8.07	
For Each Additional Top Copes >2, Add	0.22	
For Structural Tees, WT, MT Or ST, Deduct	-11.33	
For Skewed Or Sloped Connections, Add	4.84	
05 12 23 00-0359 LF W10 x 68 A992/A36 Structural Beam Or Girder	94.88	20.04
For High Strength Low Alloy A572-50 Steel, Add	8.54	
For High Strength Low Alloy A588 Steel, Add	18.98	
For Each Additional Top Copes >2, Add	0.74	
For Structural Tees, WT, MT Or ST, Deduct	-30.02	
For Skewed Or Sloped Connections, Add	11.39	
05 12 23 00-0360 LF W10 x 60 A992/A36 Structural Beam Or Girder	86.91	19.65
For High Strength Low Alloy A572-50 Steel, Add	7.82	
For High Strength Low Alloy A588 Steel, Add	17.38	
For Each Additional Top Copes >2, Add	0.66	
For Structural Tees, WT, MT Or ST, Deduct	-27.29	
For Skewed Or Sloped Connections, Add	10.43	
05 12 23 00-0361 LF W10 x 54 A992/A36 Structural Beam Or Girder	80.81	19.27
For High Strength Low Alloy A572-50 Steel, Add	7.27	
For High Strength Low Alloy A588 Steel, Add	16.16	
For Each Additional Top Copes >2, Add	0.60	
For Structural Tees, WT, MT Or ST, Deduct	-25.19	
For Skewed Or Sloped Connections, Add	9.70	
05 12 23 00-0362 LF W10 x 49 A992/A36 Structural Beam Or Girder	75.79	19.08
For High Strength Low Alloy A572-50 Steel, Add	6.82	
For High Strength Low Alloy A588 Steel, Add	15.16	
For Each Additional Top Copes >2, Add	0.55	
For Structural Tees, WT, MT Or ST, Deduct	-23.48	
For Skewed Or Sloped Connections, Add	9.09	
05 12 23 00-0363 LF W10 x 45 A992/A36 Structural Beam Or Girder	71.76	18.98
For High Strength Low Alloy A572-50 Steel, Add	6.46	
For High Strength Low Alloy A588 Steel, Add	14.35	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-22.10	
For Skewed Or Sloped Connections, Add	8.61	



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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0364	LF	W10 x 39 A992/A36 Structural Beam Or Girder	65.76	18.60
		For High Strength Low Alloy A572-50 Steel, Add	5.92	
		For High Strength Low Alloy A588 Steel, Add	13.15	
		For Each Additional Top Copes >2, Add	0.46	
		For Structural Tees, WT, MT Or ST, Deduct	-20.04	
		For Skewed Or Sloped Connections, Add	7.89	
05 12 23 00-0365	LF	W10 x 33 A992/A36 Structural Beam Or Girder	59.76	18.30
		For High Strength Low Alloy A572-50 Steel, Add	5.38	
		For High Strength Low Alloy A588 Steel, Add	11.95	
		For Each Additional Top Copes >2, Add	0.40	
		For Structural Tees, WT, MT Or ST, Deduct	-17.98	
		For Skewed Or Sloped Connections, Add	7.17	
05 12 23 00-0366	LF	W10 x 30 A992/A36 Structural Beam Or Girder	56.70	18.21
		For High Strength Low Alloy A572-50 Steel, Add	5.10	
		For High Strength Low Alloy A588 Steel, Add	11.34	
		For Each Additional Top Copes >2, Add	0.37	
		For Structural Tees, WT, MT Or ST, Deduct	-16.93	
		For Skewed Or Sloped Connections, Add	6.80	
05 12 23 00-0367	LF	W10 x 26 A992/A36 Structural Beam Or Girder	52.77	18.11
		For High Strength Low Alloy A572-50 Steel, Add	4.75	
		For High Strength Low Alloy A588 Steel, Add	10.55	
		For Each Additional Top Copes >2, Add	0.34	
		For Structural Tees, WT, MT Or ST, Deduct	-15.58	
		For Skewed Or Sloped Connections, Add	6.33	
05 12 23 00-0368	LF	W10 x 22 A992/A36 Structural Beam Or Girder	48.64	17.83
		For High Strength Low Alloy A572-50 Steel, Add	4.38	
		For High Strength Low Alloy A588 Steel, Add	9.73	
		For Each Additional Top Copes >2, Add	0.30	
		For Structural Tees, WT, MT Or ST, Deduct	-14.18	
		For Skewed Or Sloped Connections, Add	5.84	
05 12 23 00-0369	LF	W10 x 19 A992/A36 Structural Beam Or Girder	45.69	17.73
		For High Strength Low Alloy A572-50 Steel, Add	4.11	
		For High Strength Low Alloy A588 Steel, Add	9.14	
		For Each Additional Top Copes >2, Add	0.27	
		For Structural Tees, WT, MT Or ST, Deduct	-13.16	
		For Skewed Or Sloped Connections, Add	5.48	
05 12 23 00-0370	LF	W10 x 17 A992/A36 Structural Beam Or Girder	43.62	17.64
		For High Strength Low Alloy A572-50 Steel, Add	3.93	
		For High Strength Low Alloy A588 Steel, Add	8.72	
		For Each Additional Top Copes >2, Add	0.25	
		For Structural Tees, WT, MT Or ST, Deduct	-12.45	
		For Skewed Or Sloped Connections, Add	5.23	
05 12 23 00-0371	LF	W10 x 15 A992/A36 Structural Beam Or Girder	41.65	17.45
		For High Strength Low Alloy A572-50 Steel, Add	3.75	
		For High Strength Low Alloy A588 Steel, Add	8.33	
		For Each Additional Top Copes >2, Add	0.23	
		For Structural Tees, WT, MT Or ST, Deduct	-11.77	
		For Skewed Or Sloped Connections, Add	5.00	
05 12 23 00-0372	LF	W10 x 12 A992/A36 Structural Beam Or Girder	38.70	17.45
		For High Strength Low Alloy A572-50 Steel, Add	3.48	
		For High Strength Low Alloy A588 Steel, Add	7.74	
		For Each Additional Top Copes >2, Add	0.20	
		For Structural Tees, WT, MT Or ST, Deduct	-10.76	
		For Skewed Or Sloped Connections, Add	4.64	
05 12 23 00-0373	LF	W8 x 35 A992/A36 Structural Beam Or Girder	61.72	18.50
		For High Strength Low Alloy A572-50 Steel, Add	5.55	
		For High Strength Low Alloy A588 Steel, Add	12.34	
		For Each Additional Top Copes >2, Add	0.42	
		For Structural Tees, WT, MT Or ST, Deduct	-18.65	
		For Skewed Or Sloped Connections, Add	7.41	
05 12 23 00-0374	LF	W8 x 31 A992/A36 Structural Beam Or Girder	57.69	18.21
		For High Strength Low Alloy A572-50 Steel, Add	5.19	
		For High Strength Low Alloy A588 Steel, Add	11.54	
		For Each Additional Top Copes >2, Add	0.38	
		For Structural Tees, WT, MT Or ST, Deduct	-17.27	
		For Skewed Or Sloped Connections, Add	6.92	
05 12 23 00-0375	LF	W8 x 28 A992/A36 Structural Beam Or Girder	53.67	17.16
		For High Strength Low Alloy A572-50 Steel, Add	4.83	
		For High Strength Low Alloy A588 Steel, Add	10.73	
		For Each Additional Top Copes >2, Add	0.35	
		For Structural Tees, WT, MT Or ST, Deduct	-16.04	
		For Skewed Or Sloped Connections, Add	6.44	
05 12 23 00-0376	LF	W8 x 24 A992/A36 Structural Beam Or Girder	49.03	16.10
		For High Strength Low Alloy A572-50 Steel, Add	4.41	
		For High Strength Low Alloy A588 Steel, Add	9.81	
		For Each Additional Top Copes >2, Add	0.32	
		For Structural Tees, WT, MT Or ST, Deduct	-14.59	
		For Skewed Or Sloped Connections, Add	5.88	
05 12 23 00-0377	LF	W8 x 21 A992/A36 Structural Beam Or Girder	45.63	14.95
		For High Strength Low Alloy A572-50 Steel, Add	4.11	
		For High Strength Low Alloy A588 Steel, Add	9.13	
		For Each Additional Top Copes >2, Add	0.30	
		For Structural Tees, WT, MT Or ST, Deduct	-13.57	
		For Skewed Or Sloped Connections, Add	5.48	

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

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 12 23 00-0378	LF	W8 x 18 A992/A36 Structural Beam Or Girder	40.08		13.89
		For High Strength Low Alloy A572-50 Steel, Add	3.61		
		For High Strength Low Alloy A588 Steel, Add	8.02		
		For Each Additional Top Copes >2, Add	0.25		
		For Structural Tees, WT, MT Or ST, Deduct	-11.80		
		For Skewed Or Sloped Connections, Add	4.81		
05 12 23 00-0379	LF	W8 x 10 A992/A36 Structural Beam Or Girder	24.01		9.97
		For High Strength Low Alloy A572-50 Steel, Add	2.16		
		For High Strength Low Alloy A588 Steel, Add	4.80		
		For Each Additional Top Copes >2, Add	0.13		
		For Structural Tees, WT, MT Or ST, Deduct	-6.82		
		For Skewed Or Sloped Connections, Add	2.88		
05 12 23 00-0380	LF	W6 x 9 A992/A36 Structural Beam Or Girder	21.92		8.15
		For High Strength Low Alloy A572-50 Steel, Add	1.97		
		For High Strength Low Alloy A588 Steel, Add	4.38		
		For Each Additional Top Copes >2, Add	0.13		
		For Structural Tees, WT, MT Or ST, Deduct	-6.38		
		For Skewed Or Sloped Connections, Add	2.63		
05 12 23 00-0381 A992/A36 Structural Steel, M Shapes (05 12 23 00-0163)					
Note: Includes material delivery and erection.					
05 12 23 00-0382	LF	M14 x 18 A992/A36 Structural Steel	44.55		13.12
		For High Strength Low Alloy A572-50 Steel, Add	4.01		
		For High Strength Low Alloy A588 Grade B Steel, Add	8.91		
05 12 23 00-0383	LF	M12 x 11.8 A992/A36 Structural Steel	32.41		11.60
		For High Strength Low Alloy A572-50 Steel, Add	2.92		
		For High Strength Low Alloy A588 Grade B Steel, Add	6.48		
05 12 23 00-0384	LF	M10 x 9 A992/A36 Structural Steel	25.21		9.31
		For High Strength Low Alloy A572-50 Steel, Add	2.27		
		For High Strength Low Alloy A588 Grade B Steel, Add	5.04		
05 12 23 00-0385	LF	M8 x 6.5 A992/A36 Structural Steel	18.21		6.72
		For High Strength Low Alloy A572-50 Steel, Add	1.64		
		For High Strength Low Alloy A588 Grade B Steel, Add	3.64		
05 12 23 00-0386	LF	M6 x 20 A992/A36 Structural Steel	50.27		15.43
		For High Strength Low Alloy A572-50 Steel, Add	4.52		
		For High Strength Low Alloy A588 Grade B Steel, Add	10.05		
05 12 23 00-0387	LF	M6 x 4.4 A992/A36 Structural Steel	12.31		4.55
		For High Strength Low Alloy A572-50 Steel, Add	1.11		
		For High Strength Low Alloy A588 Grade B Steel, Add	2.46		
05 12 23 00-0388	LF	M5 x 18.9 A992/A36 Structural Steel	48.55		15.43
		For High Strength Low Alloy A572-50 Steel, Add	4.37		
		For High Strength Low Alloy A588 Grade B Steel, Add	9.71		
05 12 23 00-0389	LF	M4 x 13 A992/A36 Structural Steel	40.27		15.14
		For High Strength Low Alloy A572-50 Steel, Add	3.62		
		For High Strength Low Alloy A588 Grade B Steel, Add	8.05		
05 12 23 00-0390 A992/A36 Structural Steel, S Shapes (05 12 23 00-0163)					
Note: Includes material delivery and erection.					
05 12 23 00-0391	LF	S24 x 121 A992/A36 Structural Steel	265.53		66.40
		For High Strength Low Alloy A572-50 Steel, Add	23.90		
		For High Strength Low Alloy A588 Grade B Steel, Add	53.11		
05 12 23 00-0392	LF	S24 x 106 A992/A36 Structural Steel	235.89		61.23
		For High Strength Low Alloy A572-50 Steel, Add	21.23		
		For High Strength Low Alloy A588 Grade B Steel, Add	47.18		
05 12 23 00-0393	LF	S24 x 100 A992/A36 Structural Steel	225.77		60.81
		For High Strength Low Alloy A572-50 Steel, Add	20.32		
		For High Strength Low Alloy A588 Grade B Steel, Add	45.15		
05 12 23 00-0394	LF	S24 x 90 A992/A36 Structural Steel	206.27		57.61
		For High Strength Low Alloy A572-50 Steel, Add	18.56		
		For High Strength Low Alloy A588 Grade B Steel, Add	41.25		
05 12 23 00-0395	LF	S24 x 80 A992/A36 Structural Steel	186.21		53.90
		For High Strength Low Alloy A572-50 Steel, Add	16.76		
		For High Strength Low Alloy A588 Grade B Steel, Add	37.24		
05 12 23 00-0396	LF	S20 x 96 A992/A36 Structural Steel	216.74		58.37
		For High Strength Low Alloy A572-50 Steel, Add	19.51		
		For High Strength Low Alloy A588 Grade B Steel, Add	43.35		
05 12 23 00-0397	LF	S20 x 86 A992/A36 Structural Steel	197.10		55.05
		For High Strength Low Alloy A572-50 Steel, Add	17.74		
		For High Strength Low Alloy A588 Grade B Steel, Add	39.42		
05 12 23 00-0398	LF	S20 x 75 A992/A36 Structural Steel	174.58		50.54
		For High Strength Low Alloy A572-50 Steel, Add	15.71		
		For High Strength Low Alloy A588 Grade B Steel, Add	34.92		
05 12 23 00-0399	LF	S20 x 66 A992/A36 Structural Steel	156.13		46.81
		For High Strength Low Alloy A572-50 Steel, Add	14.05		
		For High Strength Low Alloy A588 Grade B Steel, Add	31.23		
05 12 23 00-0400	LF	S18 x 70 A992/A36 Structural Steel	165.60		49.64
		For High Strength Low Alloy A572-50 Steel, Add	14.90		
		For High Strength Low Alloy A588 Grade B Steel, Add	33.12		
05 12 23 00-0401	LF	S18 x 54.7 A992/A36 Structural Steel	131.57		40.84
		For High Strength Low Alloy A572-50 Steel, Add	11.84		
		For High Strength Low Alloy A588 Grade B Steel, Add	26.31		



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

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 12 23 00-0402	LF	S15 x 50 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	122.36 11.01 24.47	39.30
05 12 23 00-0403	LF	S15 x 42.9 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	106.88 9.62 21.38	35.49
05 12 23 00-0404	LF	S12 x 50 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	120.27 10.82 24.05	37.33
05 12 23 00-0405	LF	S12 x 40.8 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	99.84 8.99 19.97	32.07
05 12 23 00-0406	LF	S12 x 35 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	87.19 7.85 17.44	28.95
05 12 23 00-0407	LF	S12 x 31.8 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	80.70 7.26 16.14	27.69
05 12 23 00-0408	LF	S10 x 35 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	88.82 7.99 17.76	30.48
05 12 23 00-0409	LF	S10 x 25.4 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	65.70 5.91 13.14	23.28
05 12 23 00-0410	LF	S8 x 23 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	59.50 5.36 11.90	21.08
05 12 23 00-0411	LF	S8 x 18.4 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	48.54 4.37 9.71	17.76
05 12 23 00-0412	LF	S7 x 20 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	52.76 4.75 10.55	19.30
05 12 23 00-0413	LF	S7 x 15.3 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	41.19 3.71 8.24	15.54
05 12 23 00-0414	LF	S6 x 17.25 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	45.02 4.05 9.00	16.19
05 12 23 00-0415	LF	S6 x 12.5 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	38.78 3.49 7.76	14.95
05 12 23 00-0416	LF	S5 x 14.75 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	41.17 3.71 8.23	15.24
05 12 23 00-0417	LF	S5 x 10 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	35.28 3.18 7.06	14.86
05 12 23 00-0418	LF	S4 x 9.5 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	34.38 3.09 6.88	14.86
05 12 23 00-0419	LF	S4 x 7.7 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	32.30 2.91 6.46	14.86
05 12 23 00-0420	LF	S3 x 7.5 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	32.10 2.89 6.42	14.86
05 12 23 00-0421	LF	S3 x 5.7 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	29.60 2.66 5.92	14.76
05 12 23 00-0422		A992/A36 Structural Steel, HP Shapes (05 12 23 00-0163) Note: Includes material delivery and erection.		
05 12 23 00-0423	LF	HP14 x 117 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	159.28 14.34 31.86	19.67
05 12 23 00-0424	LF	HP14 x 102 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	139.59 12.56 27.92	18.31
05 12 23 00-0425	LF	HP14 x 89 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	124.55 11.21 24.91	17.17
05 12 23 00-0426	LF	HP14 x 73 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	103.51 9.32 20.70	16.19
05 12 23 00-0427	LF	HP13 x 100 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	136.86 12.32 27.37	17.95
05 12 23 00-0428	LF	HP13 x 87 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	121.75 10.96 24.35	16.79
05 12 23 00-0429	LF	HP13 x 73 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	103.51 9.32 20.70	16.19

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0430	LF		HP13 x 60 A992/A36 Structural Steel.....	88.06	15.51
			For High Strength Low Alloy A572-50 Steel, Add	7.93	
			For High Strength Low Alloy A588 Grade B Steel, Add	17.61	
05 12 23 00-0431	LF		HP12 x 84 A992/A36 Structural Steel.....	115.23	17.71
			For High Strength Low Alloy A572-50 Steel, Add	10.37	
			For High Strength Low Alloy A588 Grade B Steel, Add	23.05	
05 12 23 00-0432	LF		HP12 x 74 A992/A36 Structural Steel.....	102.02	16.70
			For High Strength Low Alloy A572-50 Steel, Add	9.18	
			For High Strength Low Alloy A588 Grade B Steel, Add	20.40	
05 12 23 00-0433	LF		HP12 x 63 A992/A36 Structural Steel.....	88.02	15.35
			For High Strength Low Alloy A572-50 Steel, Add	7.92	
			For High Strength Low Alloy A588 Grade B Steel, Add	17.60	
05 12 23 00-0434	LF		HP12 x 53 A992/A36 Structural Steel.....	80.81	14.60
			For High Strength Low Alloy A572-50 Steel, Add	7.27	
			For High Strength Low Alloy A588 Grade B Steel, Add	16.16	
05 12 23 00-0435	LF		HP10 x 57 A992/A36 Structural Steel.....	85.05	14.98
			For High Strength Low Alloy A572-50 Steel, Add	7.65	
			For High Strength Low Alloy A588 Grade B Steel, Add	17.01	
05 12 23 00-0436	LF		HP10 x 42 A992/A36 Structural Steel.....	70.44	14.04
			For High Strength Low Alloy A572-50 Steel, Add	6.34	
			For High Strength Low Alloy A588 Grade B Steel, Add	14.09	
05 12 23 00-0437	LF		HP8 x 36 A992/A36 Structural Steel.....	61.45	13.24
			For High Strength Low Alloy A572-50 Steel, Add	5.53	
			For High Strength Low Alloy A588 Grade B Steel, Add	12.29	
05 12 23 00-0438			Lightweight Framing Steel Shapes (05 12 23)		
05 12 23 00-0439			Angle Iron - L (05 12 23 00-0438)		
05 12 23 00-0440			1/8" Thick (05 12 23 00-0439)		
05 12 23 00-0441	LF		1/2" x 1/2" x 1/8" Angle Iron.....	2.12	1.34
			For >100 To 250, Deduct	-0.13	
			For >250 To 500, Deduct	-0.19	
			For >500 To 1,000, Deduct	-0.29	
			For >1,000, Deduct	-0.38	
			For 316 Stainless Steel, Add	1.06	
			For Aluminum, Add	0.06	
			For Galvanized Steel, Add	0.20	
			For 304 Stainless Steel, Add	0.94	
			For High Strength Steel (HSS), Add	0.42	
05 12 23 00-0442	LF		3/4" x 1/2" x 1/8" Angle Iron.....	2.44	1.52
			For >100 To 250, Deduct	-0.15	
			For >250 To 500, Deduct	-0.21	
			For >500 To 1,000, Deduct	-0.33	
			For >1,000, Deduct	-0.44	
			For 316 Stainless Steel, Add	1.31	
			For Aluminum, Add	0.07	
			For Galvanized Steel, Add	0.25	
			For 304 Stainless Steel, Add	1.17	
			For High Strength Steel (HSS), Add	0.49	
05 12 23 00-0443	LF		3/4" x 3/4" x 1/8" Angle Iron.....	2.74	1.68
			For >100 To 250, Deduct	-0.17	
			For >250 To 500, Deduct	-0.24	
			For >500 To 1,000, Deduct	-0.36	
			For >1,000, Deduct	-0.48	
			For 316 Stainless Steel, Add	1.63	
			For Aluminum, Add	0.09	
			For Galvanized Steel, Add	0.32	
			For 304 Stainless Steel, Add	1.45	
			For High Strength Steel (HSS), Add	0.55	
05 12 23 00-0444	LF		1" x 3/4" x 1/8" Angle Iron.....	3.08	1.87
			For >100 To 250, Deduct	-0.19	
			For >250 To 500, Deduct	-0.26	
			For >500 To 1,000, Deduct	-0.40	
			For >1,000, Deduct	-0.54	
			For 316 Stainless Steel, Add	1.89	
			For Aluminum, Add	0.11	
			For Galvanized Steel, Add	0.37	
			For 304 Stainless Steel, Add	1.68	
			For High Strength Steel (HSS), Add	0.62	
05 12 23 00-0445	LF		1" x 1" x 1/8" Angle Iron.....	3.38	2.01
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.29	
			For >500 To 1,000, Deduct	-0.44	
			For >1,000, Deduct	-0.59	
			For 316 Stainless Steel, Add	2.21	
			For Aluminum, Add	0.12	
			For Galvanized Steel, Add	0.43	
			For 304 Stainless Steel, Add	1.97	
			For High Strength Steel (HSS), Add	0.68	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0446	LF	1-1/4" x 1-1/4" x 1/8" Angle Iron.....		4.03	2.38
		For >100 To 250, Deduct		-0.24	
		For >250 To 500, Deduct		-0.34	
		For >500 To 1,000, Deduct		-0.52	
		For >1,000, Deduct		-0.70	
		For 316 Stainless Steel, Add		2.78	
		For Aluminum, Add		0.16	
		For Galvanized Steel, Add		0.54	
		For 304 Stainless Steel, Add		2.48	
		For High Strength Steel (HSS), Add		0.81	
05 12 23 00-0447	LF	1-1/2" x 1" x 1/8" Angle Iron.....		4.03	2.38
		For >100 To 250, Deduct		-0.24	
		For >250 To 500, Deduct		-0.34	
		For >500 To 1,000, Deduct		-0.52	
		For >1,000, Deduct		-0.70	
		For 316 Stainless Steel, Add		2.78	
		For Aluminum, Add		0.16	
		For Galvanized Steel, Add		0.54	
		For 304 Stainless Steel, Add		2.48	
		For High Strength Steel (HSS), Add		0.81	
05 12 23 00-0448	LF	1-1/2" x 1-1/2" x 1/8" Angle Iron.....		4.83	2.84
		For >100 To 250, Deduct		-0.28	
		For >250 To 500, Deduct		-0.40	
		For >500 To 1,000, Deduct		-0.62	
		For >1,000, Deduct		-0.83	
		For 316 Stainless Steel, Add		3.36	
		For Aluminum, Add		0.19	
		For Galvanized Steel, Add		0.65	
		For 304 Stainless Steel, Add		2.99	
		For High Strength Steel (HSS), Add		0.97	
05 12 23 00-0449	LF	2" x 2" x 1/8" Angle Iron.....		6.57	3.87
		For >100 To 250, Deduct		-0.39	
		For >250 To 500, Deduct		-0.55	
		For >500 To 1,000, Deduct		-0.84	
		For >1,000, Deduct		-1.14	
		For 316 Stainless Steel, Add		4.58	
		For Aluminum, Add		0.26	
		For Galvanized Steel, Add		0.89	
		For 304 Stainless Steel, Add		4.08	
		For High Strength Steel (HSS), Add		1.31	
05 12 23 00-0450		3/16" Thick (05 12 23 00-0439)			
05 12 23 00-0451	LF	1-1/4" x 1-1/4" x 3/16" Angle Iron.....		4.62	2.51
		For >100 To 250, Deduct		-0.25	
		For >250 To 500, Deduct		-0.37	
		For >500 To 1,000, Deduct		-0.57	
		For >1,000, Deduct		-0.76	
		For 316 Stainless Steel, Add		4.10	
		For Aluminum, Add		0.23	
		For Galvanized Steel, Add		0.79	
		For 304 Stainless Steel, Add		3.65	
		For High Strength Steel (HSS), Add		0.92	
05 12 23 00-0452	LF	1-1/2" x 1" x 3/16" Angle Iron.....		4.62	2.51
		For >100 To 250, Deduct		-0.25	
		For >250 To 500, Deduct		-0.37	
		For >500 To 1,000, Deduct		-0.57	
		For >1,000, Deduct		-0.76	
		For 316 Stainless Steel, Add		4.10	
		For Aluminum, Add		0.23	
		For Galvanized Steel, Add		0.79	
		For 304 Stainless Steel, Add		3.65	
		For High Strength Steel (HSS), Add		0.92	
05 12 23 00-0453	LF	1-1/2" x 1-1/2" x 3/16" Angle Iron.....		5.13	2.69
		For >100 To 250, Deduct		-0.27	
		For >250 To 500, Deduct		-0.40	
		For >500 To 1,000, Deduct		-0.61	
		For >1,000, Deduct		-0.83	
		For 316 Stainless Steel, Add		4.96	
		For Aluminum, Add		0.28	
		For Galvanized Steel, Add		0.96	
		For 304 Stainless Steel, Add		4.42	
		For High Strength Steel (HSS), Add		1.03	
05 12 23 00-0454	LF	2" x 2" x 3/16" Angle Iron.....		5.94	2.88
		For >100 To 250, Deduct		-0.29	
		For >250 To 500, Deduct		-0.44	
		For >500 To 1,000, Deduct		-0.68	
		For >1,000, Deduct		-0.92	
		For 316 Stainless Steel, Add		6.75	
		For Aluminum, Add		0.38	
		For Galvanized Steel, Add		1.31	
		For 304 Stainless Steel, Add		6.01	
		For High Strength Steel (HSS), Add		1.19	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0455	LF		2-1/2" x 2" x 3/16" Angle Iron	6.50	3.09
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.47	
			For >500 To 1,000, Deduct	-0.74	
			For >1,000, Deduct	-1.00	
			For 316 Stainless Steel, Add	7.62	
			For Aluminum, Add	0.43	
			For Galvanized Steel, Add	1.48	
			For 304 Stainless Steel, Add	6.78	
			For High Strength Steel (HSS), Add	1.30	
05 12 23 00-0456	LF		2-1/2" x 2-1/2" x 3/16" Angle Iron	7.07	3.30
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.51	
			For >500 To 1,000, Deduct	-0.79	
			For >1,000, Deduct	-1.08	
			For 316 Stainless Steel, Add	8.51	
			For Aluminum, Add	0.48	
			For Galvanized Steel, Add	1.65	
			For 304 Stainless Steel, Add	7.58	
			For High Strength Steel (HSS), Add	1.41	
05 12 23 00-0457	LF		3" x 2" x 3/16" Angle Iron	7.07	3.30
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.51	
			For >500 To 1,000, Deduct	-0.79	
			For >1,000, Deduct	-1.08	
			For 316 Stainless Steel, Add	8.51	
			For Aluminum, Add	0.48	
			For Galvanized Steel, Add	1.65	
			For 304 Stainless Steel, Add	7.58	
			For High Strength Steel (HSS), Add	1.41	
05 12 23 00-0458	LF		3" x 2-1/2" x 3/16" Angle Iron	7.79	3.65
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.56	
			For >500 To 1,000, Deduct	-0.88	
			For >1,000, Deduct	-1.19	
			For 316 Stainless Steel, Add	9.38	
			For Aluminum, Add	0.53	
			For Galvanized Steel, Add	1.82	
			For 304 Stainless Steel, Add	8.35	
			For High Strength Steel (HSS), Add	1.56	
05 12 23 00-0459	LF		3" x 3" x 3/16" Angle Iron	8.53	4.00
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.61	
			For >500 To 1,000, Deduct	-0.96	
			For >1,000, Deduct	-1.30	
			For 316 Stainless Steel, Add	10.27	
			For Aluminum, Add	0.58	
			For Galvanized Steel, Add	1.99	
			For 304 Stainless Steel, Add	9.15	
			For High Strength Steel (HSS), Add	1.71	
05 12 23 00-0460			1/4" Thick (05 12 23 00-0439)		
05 12 23 00-0461	LF		1-1/2" x 1" x 1/4" Angle Iron	5.17	2.65
			For >100 To 250, Deduct	-0.26	
			For >250 To 500, Deduct	-0.39	
			For >500 To 1,000, Deduct	-0.61	
			For >1,000, Deduct	-0.83	
			For 316 Stainless Steel, Add	5.25	
			For Aluminum, Add	0.30	
			For Galvanized Steel, Add	1.02	
			For 304 Stainless Steel, Add	4.67	
			For High Strength Steel (HSS), Add	1.03	
05 12 23 00-0462	LF		1-1/2" x 1-1/2" x 1/4" Angle Iron	5.78	2.84
			For >100 To 250, Deduct	-0.28	
			For >250 To 500, Deduct	-0.43	
			For >500 To 1,000, Deduct	-0.67	
			For >1,000, Deduct	-0.91	
			For 316 Stainless Steel, Add	6.40	
			For Aluminum, Add	0.36	
			For Galvanized Steel, Add	1.24	
			For 304 Stainless Steel, Add	5.70	
			For High Strength Steel (HSS), Add	1.16	
05 12 23 00-0463	LF		2" x 2" x 1/4" Angle Iron	6.78	3.02
			For >100 To 250, Deduct	-0.30	
			For >250 To 500, Deduct	-0.47	
			For >500 To 1,000, Deduct	-0.74	
			For >1,000, Deduct	-1.01	
			For 316 Stainless Steel, Add	8.80	
			For Aluminum, Add	0.50	
			For Galvanized Steel, Add	1.71	
			For 304 Stainless Steel, Add	7.84	
			For High Strength Steel (HSS), Add	1.36	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0464	LF		2-1/2" x 2" x 1/4" Angle Iron.....	7.60	3.35
			For >100 To 250, Deduct	-0.34	
			For >250 To 500, Deduct	-0.53	
			For >500 To 1,000, Deduct	-0.83	
			For >1,000, Deduct	-1.13	
			For 316 Stainless Steel, Add	10.02	
			For Aluminum, Add	0.56	
			For Galvanized Steel, Add	1.94	
			For 304 Stainless Steel, Add	8.92	
			For High Strength Steel (HSS), Add	1.52	
05 12 23 00-0465	LF		2-1/2" x 2-1/2" x 1/4" Angle Iron.....	8.43	3.67
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.58	
			For >500 To 1,000, Deduct	-0.91	
			For >1,000, Deduct	-1.24	
			For 316 Stainless Steel, Add	11.33	
			For Aluminum, Add	0.64	
			For Galvanized Steel, Add	2.19	
			For 304 Stainless Steel, Add	10.09	
			For High Strength Steel (HSS), Add	1.69	
05 12 23 00-0466	LF		3" x 2" x 1/4" Angle Iron.....	8.43	3.67
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.58	
			For >500 To 1,000, Deduct	-0.91	
			For >1,000, Deduct	-1.24	
			For 316 Stainless Steel, Add	11.33	
			For Aluminum, Add	0.64	
			For Galvanized Steel, Add	2.19	
			For 304 Stainless Steel, Add	10.09	
			For High Strength Steel (HSS), Add	1.69	
05 12 23 00-0467	LF		3" x 2-1/2" x 1/4" Angle Iron.....	9.33	4.08
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.64	
			For >500 To 1,000, Deduct	-1.01	
			For >1,000, Deduct	-1.38	
			For 316 Stainless Steel, Add	12.45	
			For Aluminum, Add	0.70	
			For Galvanized Steel, Add	2.41	
			For 304 Stainless Steel, Add	11.09	
			For High Strength Steel (HSS), Add	1.87	
05 12 23 00-0468	LF		3" x 3" x 1/4" Angle Iron.....	10.20	4.48
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.70	
			For >500 To 1,000, Deduct	-1.11	
			For >1,000, Deduct	-1.51	
			For 316 Stainless Steel, Add	13.54	
			For Aluminum, Add	0.76	
			For Galvanized Steel, Add	2.62	
			For 304 Stainless Steel, Add	12.06	
			For High Strength Steel (HSS), Add	2.04	
05 12 23 00-0469	LF		3-1/2" x 3" x 1/4" Angle Iron.....	11.08	4.81
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.76	
			For >500 To 1,000, Deduct	-1.20	
			For >1,000, Deduct	-1.63	
			For 316 Stainless Steel, Add	14.91	
			For Aluminum, Add	0.84	
			For Galvanized Steel, Add	2.89	
			For 304 Stainless Steel, Add	13.28	
			For High Strength Steel (HSS), Add	2.22	
05 12 23 00-0470	LF		3-1/2" x 3-1/2" x 1/4" Angle Iron.....	11.72	0.50
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.80	
			For >500 To 1,000, Deduct	-1.26	
			For >1,000, Deduct	-1.72	
			For 316 Stainless Steel, Add	16.06	
			For Aluminum, Add	0.90	
			For Galvanized Steel, Add	3.11	
			For 304 Stainless Steel, Add	14.31	
			For High Strength Steel (HSS), Add	2.34	
05 12 23 00-0471	LF		4" x 3" x 1/4" Angle Iron.....	11.72	5.03
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.80	
			For >500 To 1,000, Deduct	-1.26	
			For >1,000, Deduct	-1.72	
			For 316 Stainless Steel, Add	16.06	
			For Aluminum, Add	0.90	
			For Galvanized Steel, Add	3.11	
			For 304 Stainless Steel, Add	14.31	
			For High Strength Steel (HSS), Add	2.34	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0472	LF		4" x 3-1/2" x 1/4" Angle Iron	12.34	5.24
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.83	
			For >500 To 1,000, Deduct	-1.32	
			For >1,000, Deduct	-1.80	
			For 316 Stainless Steel, Add	17.12	
			For Aluminum, Add	0.96	
			For Galvanized Steel, Add	3.32	
			For 304 Stainless Steel, Add	15.25	
			For High Strength Steel (HSS), Add	2.47	
05 12 23 00-0473	LF		4" x 4" x 1/4" Angle Iron	13.00	5.47
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.87	
			For >500 To 1,000, Deduct	-1.38	
			For >1,000, Deduct	-1.89	
			For 316 Stainless Steel, Add	18.27	
			For Aluminum, Add	1.03	
			For Galvanized Steel, Add	3.54	
			For 304 Stainless Steel, Add	16.27	
			For High Strength Steel (HSS), Add	2.60	
05 12 23 00-0474	LF		5" x 3" x 1/4" Angle Iron	13.00	5.47
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.87	
			For >500 To 1,000, Deduct	-1.38	
			For >1,000, Deduct	-1.89	
			For 316 Stainless Steel, Add	18.27	
			For Aluminum, Add	1.03	
			For Galvanized Steel, Add	3.54	
			For 304 Stainless Steel, Add	16.27	
			For High Strength Steel (HSS), Add	2.60	
05 12 23 00-0475	LF		5" x 3-1/2" x 1/4" Angle Iron	13.72	5.76
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.92	
			For >500 To 1,000, Deduct	-1.45	
			For >1,000, Deduct	-1.99	
			For 316 Stainless Steel, Add	19.33	
			For Aluminum, Add	1.09	
			For Galvanized Steel, Add	3.74	
			For 304 Stainless Steel, Add	17.21	
			For High Strength Steel (HSS), Add	2.74	
05 12 23 00-0476			5/16" Thick (05 12 23 00-0439)		
05 12 23 00-0477	LF		2-1/2" x 2" x 5/16" Angle Iron	9.07	3.90
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.62	
			For >500 To 1,000, Deduct	-0.97	
			For >1,000, Deduct	-1.33	
			For 316 Stainless Steel, Add	12.45	
			For Aluminum, Add	0.70	
			For Galvanized Steel, Add	2.41	
			For 304 Stainless Steel, Add	11.09	
			For High Strength Steel (HSS), Add	1.81	
05 12 23 00-0478	LF		2-1/2" x 2-1/2" x 5/16" Angle Iron	9.84	4.13
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.66	
			For >500 To 1,000, Deduct	-1.04	
			For >1,000, Deduct	-1.43	
			For 316 Stainless Steel, Add	13.86	
			For Aluminum, Add	0.78	
			For Galvanized Steel, Add	2.68	
			For 304 Stainless Steel, Add	12.34	
			For High Strength Steel (HSS), Add	1.97	
05 12 23 00-0479	LF		3" x 2" x 5/16" Angle Iron	9.84	4.13
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.66	
			For >500 To 1,000, Deduct	-1.04	
			For >1,000, Deduct	-1.43	
			For 316 Stainless Steel, Add	13.86	
			For Aluminum, Add	0.78	
			For Galvanized Steel, Add	2.68	
			For 304 Stainless Steel, Add	12.34	
			For High Strength Steel (HSS), Add	1.97	
05 12 23 00-0480	LF		3" x 2-1/2" x 5/16" Angle Iron	10.88	4.53
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.72	
			For >500 To 1,000, Deduct	-1.15	
			For >1,000, Deduct	-1.57	
			For 316 Stainless Steel, Add	15.52	
			For Aluminum, Add	0.87	
			For Galvanized Steel, Add	3.01	
			For 304 Stainless Steel, Add	13.82	
			For High Strength Steel (HSS), Add	2.18	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0481	LF	3" x 3" x 5/16" Angle Iron	.....	11.84	4.92
		For >100 To 250, Deduct	.....	-0.49	
		For >250 To 500, Deduct	.....	-0.79	
		For >500 To 1,000, Deduct	.....	-1.25	
		For >1,000, Deduct	.....	-1.71	
		For 316 Stainless Steel, Add	.....	16.90	
		For Aluminum, Add	.....	0.95	
		For Galvanized Steel, Add	.....	3.27	
		For 304 Stainless Steel, Add	.....	15.05	
		For High Strength Steel (HSS), Add	.....	2.37	
05 12 23 00-0482	LF	3-1/2" x 3" x 5/16" Angle Iron	.....	12.60	5.16
		For >100 To 250, Deduct	.....	-0.52	
		For >250 To 500, Deduct	.....	-0.83	
		For >500 To 1,000, Deduct	.....	-1.32	
		For >1,000, Deduct	.....	-1.81	
		For 316 Stainless Steel, Add	.....	18.27	
		For Aluminum, Add	.....	1.03	
		For Galvanized Steel, Add	.....	3.54	
		For 304 Stainless Steel, Add	.....	16.27	
		For High Strength Steel (HSS), Add	.....	2.52	
05 12 23 00-0483	LF	3-1/2" x 3-1/2" x 5/16" Angle Iron	.....	13.45	5.43
		For >100 To 250, Deduct	.....	-0.54	
		For >250 To 500, Deduct	.....	-0.88	
		For >500 To 1,000, Deduct	.....	-1.40	
		For >1,000, Deduct	.....	-1.91	
		For 316 Stainless Steel, Add	.....	19.90	
		For Aluminum, Add	.....	1.12	
		For Galvanized Steel, Add	.....	3.86	
		For 304 Stainless Steel, Add	.....	17.73	
		For High Strength Steel (HSS), Add	.....	2.69	
05 12 23 00-0484	LF	4" x 3" x 5/16" Angle Iron	.....	13.45	5.43
		For >100 To 250, Deduct	.....	-0.54	
		For >250 To 500, Deduct	.....	-0.88	
		For >500 To 1,000, Deduct	.....	-1.40	
		For >1,000, Deduct	.....	-1.91	
		For 316 Stainless Steel, Add	.....	19.90	
		For Aluminum, Add	.....	1.12	
		For Galvanized Steel, Add	.....	3.86	
		For 304 Stainless Steel, Add	.....	17.73	
		For High Strength Steel (HSS), Add	.....	2.69	
05 12 23 00-0485	LF	4" x 3-1/2" x 5/16" Angle Iron	.....	14.30	5.74
		For >100 To 250, Deduct	.....	-0.57	
		For >250 To 500, Deduct	.....	-0.93	
		For >500 To 1,000, Deduct	.....	-1.48	
		For >1,000, Deduct	.....	-2.03	
		For 316 Stainless Steel, Add	.....	21.28	
		For Aluminum, Add	.....	1.20	
		For Galvanized Steel, Add	.....	4.12	
		For 304 Stainless Steel, Add	.....	18.95	
		For High Strength Steel (HSS), Add	.....	2.86	
05 12 23 00-0486	LF	4" x 4" x 5/16" Angle Iron	.....	15.08	5.99
		For >100 To 250, Deduct	.....	-0.60	
		For >250 To 500, Deduct	.....	-0.98	
		For >500 To 1,000, Deduct	.....	-1.55	
		For >1,000, Deduct	.....	-2.13	
		For 316 Stainless Steel, Add	.....	22.72	
		For Aluminum, Add	.....	1.28	
		For Galvanized Steel, Add	.....	4.40	
		For 304 Stainless Steel, Add	.....	20.24	
		For High Strength Steel (HSS), Add	.....	3.02	
05 12 23 00-0487	LF	5" x 3" x 5/16" Angle Iron	.....	15.08	5.99
		For >100 To 250, Deduct	.....	-0.60	
		For >250 To 500, Deduct	.....	-0.98	
		For >500 To 1,000, Deduct	.....	-1.55	
		For >1,000, Deduct	.....	-2.13	
		For 316 Stainless Steel, Add	.....	22.72	
		For Aluminum, Add	.....	1.28	
		For Galvanized Steel, Add	.....	4.40	
		For 304 Stainless Steel, Add	.....	20.24	
		For High Strength Steel (HSS), Add	.....	3.02	
05 12 23 00-0488	LF	5" x 3-1/2" x 5/16" Angle Iron	.....	15.82	6.24
		For >100 To 250, Deduct	.....	-0.62	
		For >250 To 500, Deduct	.....	-1.02	
		For >500 To 1,000, Deduct	.....	-1.62	
		For >1,000, Deduct	.....	-2.23	
		For 316 Stainless Steel, Add	.....	24.03	
		For Aluminum, Add	.....	1.35	
		For Galvanized Steel, Add	.....	4.66	
		For 304 Stainless Steel, Add	.....	21.40	
		For High Strength Steel (HSS), Add	.....	3.16	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0489	LF		5" x 5" x 5/16" Angle Iron	17.58	6.50
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.09	
			For >500 To 1,000, Deduct	-1.75	
			For >1,000, Deduct	-2.40	
			For 316 Stainless Steel, Add	28.51	
			For Aluminum, Add	1.60	
			For Galvanized Steel, Add	5.52	
			For 304 Stainless Steel, Add	25.39	
			For High Strength Steel (HSS), Add	3.52	
05 12 23 00-0490	LF		6" x 3-1/2" x 5/16" Angle Iron	17.49	6.77
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.11	
			For >500 To 1,000, Deduct	-1.78	
			For >1,000, Deduct	-2.44	
			For 316 Stainless Steel, Add	27.07	
			For Aluminum, Add	1.52	
			For Galvanized Steel, Add	5.25	
			For 304 Stainless Steel, Add	24.11	
			For High Strength Steel (HSS), Add	3.50	
05 12 23 00-0491 3/8" Thick (05 12 23 00-0439)					
05 12 23 00-0492	LF		3" x 2" x 3/8" Angle Iron	10.85	4.32
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.70	
			For >500 To 1,000, Deduct	-1.12	
			For >1,000, Deduct	-1.53	
			For 316 Stainless Steel, Add	16.29	
			For Aluminum, Add	0.92	
			For Galvanized Steel, Add	3.16	
			For 304 Stainless Steel, Add	14.51	
			For High Strength Steel (HSS), Add	2.17	
05 12 23 00-0493	LF		3" x 2-1/2" x 3/8" Angle Iron	11.95	4.68
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.77	
			For >500 To 1,000, Deduct	-1.22	
			For >1,000, Deduct	-1.68	
			For 316 Stainless Steel, Add	18.27	
			For Aluminum, Add	1.03	
			For Galvanized Steel, Add	3.54	
			For 304 Stainless Steel, Add	16.27	
			For High Strength Steel (HSS), Add	2.39	
05 12 23 00-0494	LF		3" x 3" x 3/8" Angle Iron	12.93	5.04
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.83	
			For >500 To 1,000, Deduct	-1.32	
			For >1,000, Deduct	-1.81	
			For 316 Stainless Steel, Add	19.90	
			For Aluminum, Add	1.12	
			For Galvanized Steel, Add	3.86	
			For 304 Stainless Steel, Add	17.73	
			For High Strength Steel (HSS), Add	2.59	
05 12 23 00-0495	LF		3-1/2" x 3" x 3/8" Angle Iron	13.74	5.17
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.86	
			For >500 To 1,000, Deduct	-1.38	
			For >1,000, Deduct	-1.89	
			For 316 Stainless Steel, Add	21.89	
			For Aluminum, Add	1.23	
			For Galvanized Steel, Add	4.24	
			For 304 Stainless Steel, Add	19.49	
			For High Strength Steel (HSS), Add	2.75	
05 12 23 00-0496	LF		3-1/2" x 3-1/2" x 3/8" Angle Iron	14.62	5.46
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.91	
			For >500 To 1,000, Deduct	-1.46	
			For >1,000, Deduct	-2.01	
			For 316 Stainless Steel, Add	23.49	
			For Aluminum, Add	1.32	
			For Galvanized Steel, Add	4.55	
			For 304 Stainless Steel, Add	20.92	
			For High Strength Steel (HSS), Add	2.92	
05 12 23 00-0497	LF		4" x 3" x 3/8" Angle Iron	14.62	5.46
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.91	
			For >500 To 1,000, Deduct	-1.46	
			For >1,000, Deduct	-2.01	
			For 316 Stainless Steel, Add	23.49	
			For Aluminum, Add	1.32	
			For Galvanized Steel, Add	4.55	
			For 304 Stainless Steel, Add	20.92	
			For High Strength Steel (HSS), Add	2.92	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0498	LF		4" x 3-1/2" x 3/8" Angle Iron.....	15.79	5.95
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-0.99	
			For >500 To 1,000, Deduct	-1.58	
			For >1,000, Deduct	-2.18	
			For 316 Stainless Steel, Add	25.15	
			For Aluminum, Add	1.41	
			For Galvanized Steel, Add	4.87	
			For 304 Stainless Steel, Add	22.40	
			For High Strength Steel (HSS), Add	3.16	
05 12 23 00-0499	LF		4" x 4" x 3/8" Angle Iron.....	16.62	6.12
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.03	
			For >500 To 1,000, Deduct	-1.65	
			For >1,000, Deduct	-2.27	
			For 316 Stainless Steel, Add	27.07	
			For Aluminum, Add	1.52	
			For Galvanized Steel, Add	5.25	
			For 304 Stainless Steel, Add	24.11	
			For High Strength Steel (HSS), Add	3.32	
05 12 23 00-0500	LF		5" x 3" x 3/8" Angle Iron.....	16.95	6.36
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.06	
			For >500 To 1,000, Deduct	-1.70	
			For >1,000, Deduct	-2.33	
			For 316 Stainless Steel, Add	27.07	
			For Aluminum, Add	1.52	
			For Galvanized Steel, Add	5.25	
			For 304 Stainless Steel, Add	24.11	
			For High Strength Steel (HSS), Add	3.39	
05 12 23 00-0501	LF		5" x 3-1/2" x 3/8" Angle Iron.....	18.13	6.86
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.14	
			For >500 To 1,000, Deduct	-1.82	
			For >1,000, Deduct	-2.50	
			For 316 Stainless Steel, Add	28.74	
			For Aluminum, Add	1.62	
			For Galvanized Steel, Add	5.57	
			For 304 Stainless Steel, Add	25.59	
			For High Strength Steel (HSS), Add	3.63	
05 12 23 00-0502	LF		5" x 5" x 3/8" Angle Iron.....	21.31	7.99
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.33	
			For >500 To 1,000, Deduct	-2.13	
			For >1,000, Deduct	-2.93	
			For 316 Stainless Steel, Add	34.08	
			For Aluminum, Add	1.92	
			For Galvanized Steel, Add	6.60	
			For 304 Stainless Steel, Add	30.35	
			For High Strength Steel (HSS), Add	4.26	
05 12 23 00-0503	LF		6" x 3-1/2" x 3/8" Angle Iron.....	20.01	7.43
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.24	
			For >500 To 1,000, Deduct	-1.99	
			For >1,000, Deduct	-2.74	
			For 316 Stainless Steel, Add	32.32	
			For Aluminum, Add	1.82	
			For Galvanized Steel, Add	6.26	
			For 304 Stainless Steel, Add	28.79	
			For High Strength Steel (HSS), Add	4.00	
05 12 23 00-0504	LF		6" x 4" x 3/8" Angle Iron.....	21.31	7.99
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.33	
			For >500 To 1,000, Deduct	-2.13	
			For >1,000, Deduct	-2.93	
			For 316 Stainless Steel, Add	34.08	
			For Aluminum, Add	1.92	
			For Galvanized Steel, Add	6.60	
			For 304 Stainless Steel, Add	30.35	
			For High Strength Steel (HSS), Add	4.26	
05 12 23 00-0505	LF		6" x 6" x 3/8" Angle Iron.....	25.68	9.59
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.60	
			For >500 To 1,000, Deduct	-2.56	
			For >1,000, Deduct	-3.52	
			For 316 Stainless Steel, Add	41.28	
			For Aluminum, Add	2.32	
			For Galvanized Steel, Add	8.00	
			For 304 Stainless Steel, Add	36.77	
			For High Strength Steel (HSS), Add	5.14	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0506	LF		7" x 4" x 3/8" Angle Iron	23.50	8.80
			For >100 To 250, Deduct	-0.88	
			For >250 To 500, Deduct	-1.47	
			For >500 To 1,000, Deduct	-2.35	
			For >1,000, Deduct	-3.23	
			For 316 Stainless Steel, Add	37.66	
			For Aluminum, Add	2.12	
			For Galvanized Steel, Add	7.30	
			For 304 Stainless Steel, Add	33.54	
			For High Strength Steel (HSS), Add	4.70	
05 12 23 00-0507 1/2" Thick (05 12 23 00-0439)					
05 12 23 00-0508	LF		3" x 3" x 1/2" Angle Iron	15.00	5.14
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.89	
			For >500 To 1,000, Deduct	-1.44	
			For >1,000, Deduct	-1.98	
			For 316 Stainless Steel, Add	26.05	
			For Aluminum, Add	1.47	
			For Galvanized Steel, Add	5.05	
			For 304 Stainless Steel, Add	23.20	
			For High Strength Steel (HSS), Add	3.00	
05 12 23 00-0509	LF		4" x 3" x 1/2" Angle Iron	17.71	6.08
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.05	
			For >500 To 1,000, Deduct	-1.70	
			For >1,000, Deduct	-2.34	
			For 316 Stainless Steel, Add	30.75	
			For Aluminum, Add	1.73	
			For Galvanized Steel, Add	5.96	
			For 304 Stainless Steel, Add	27.39	
			For High Strength Steel (HSS), Add	3.54	
05 12 23 00-0510	LF		4" x 3-1/2" x 1/2" Angle Iron	18.99	6.51
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.13	
			For >500 To 1,000, Deduct	-1.82	
			For >1,000, Deduct	-2.51	
			For 316 Stainless Steel, Add	32.96	
			For Aluminum, Add	1.85	
			For Galvanized Steel, Add	6.39	
			For 304 Stainless Steel, Add	29.36	
			For High Strength Steel (HSS), Add	3.80	
05 12 23 00-0511	LF		4" x 4" x 1/2" Angle Iron	20.43	7.01
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.96	
			For >1,000, Deduct	-2.70	
			For 316 Stainless Steel, Add	35.46	
			For Aluminum, Add	1.99	
			For Galvanized Steel, Add	6.87	
			For 304 Stainless Steel, Add	31.58	
			For High Strength Steel (HSS), Add	4.09	
05 12 23 00-0512	LF		5" x 3" x 1/2" Angle Iron	20.43	7.01
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.96	
			For >1,000, Deduct	-2.70	
			For 316 Stainless Steel, Add	35.46	
			For Aluminum, Add	1.99	
			For Galvanized Steel, Add	6.87	
			For 304 Stainless Steel, Add	31.58	
			For High Strength Steel (HSS), Add	4.09	
05 12 23 00-0513	LF		5" x 3-1/2" x 1/2" Angle Iron	21.69	7.45
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.29	
			For >500 To 1,000, Deduct	-2.08	
			For >1,000, Deduct	-2.87	
			For 316 Stainless Steel, Add	37.66	
			For Aluminum, Add	2.12	
			For Galvanized Steel, Add	7.30	
			For 304 Stainless Steel, Add	33.54	
			For High Strength Steel (HSS), Add	4.34	
05 12 23 00-0514	LF		5" x 5" x 1/2" Angle Iron	25.85	8.87
			For >100 To 250, Deduct	-0.89	
			For >250 To 500, Deduct	-1.53	
			For >500 To 1,000, Deduct	-2.48	
			For >1,000, Deduct	-3.42	
			For 316 Stainless Steel, Add	44.86	
			For Aluminum, Add	2.52	
			For Galvanized Steel, Add	8.69	
			For 304 Stainless Steel, Add	39.96	
			For High Strength Steel (HSS), Add	5.17	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0515	LF		6" x 4" x 1/2" Angle Iron	25.85	8.87
			For >100 To 250, Deduct	-0.89	
			For >250 To 500, Deduct	-1.53	
			For >500 To 1,000, Deduct	-2.48	
			For >1,000, Deduct	-3.42	
			For 316 Stainless Steel, Add	44.86	
			For Aluminum, Add	2.52	
			For Galvanized Steel, Add	8.69	
			For 304 Stainless Steel, Add	39.96	
			For High Strength Steel (HSS), Add	5.17	
05 12 23 00-0516	LF		6" x 6" x 1/2" Angle Iron	31.27	10.73
			For >100 To 250, Deduct	-1.07	
			For >250 To 500, Deduct	-1.86	
			For >500 To 1,000, Deduct	-2.99	
			For >1,000, Deduct	-4.13	
			For 316 Stainless Steel, Add	54.27	
			For Aluminum, Add	3.05	
			For Galvanized Steel, Add	10.52	
			For 304 Stainless Steel, Add	48.34	
			For High Strength Steel (HSS), Add	6.25	
05 12 23 00-0517	LF		7" x 4" x 1/2" Angle Iron	28.56	9.80
			For >100 To 250, Deduct	-0.98	
			For >250 To 500, Deduct	-1.69	
			For >500 To 1,000, Deduct	-2.74	
			For >1,000, Deduct	-3.78	
			For 316 Stainless Steel, Add	49.57	
			For Aluminum, Add	2.79	
			For Galvanized Steel, Add	9.60	
			For 304 Stainless Steel, Add	44.15	
			For High Strength Steel (HSS), Add	5.71	
05 12 23 00-0518	LF		8" x 4" x 1/2" Angle Iron	31.27	10.73
			For >100 To 250, Deduct	-1.07	
			For >250 To 500, Deduct	-1.86	
			For >500 To 1,000, Deduct	-2.99	
			For >1,000, Deduct	-4.13	
			For 316 Stainless Steel, Add	54.27	
			For Aluminum, Add	3.05	
			For Galvanized Steel, Add	10.52	
			For 304 Stainless Steel, Add	48.34	
			For High Strength Steel (HSS), Add	6.25	
05 12 23 00-0519	LF		8" x 6" x 1/2" Angle Iron	36.71	12.60
			For >100 To 250, Deduct	-1.26	
			For >250 To 500, Deduct	-2.18	
			For >500 To 1,000, Deduct	-3.52	
			For >1,000, Deduct	-4.85	
			For 316 Stainless Steel, Add	63.71	
			For Aluminum, Add	3.58	
			For Galvanized Steel, Add	12.34	
			For 304 Stainless Steel, Add	56.74	
			For High Strength Steel (HSS), Add	7.34	
05 12 23 00-0520	LF		8" x 8" x 1/2" Angle Iron	42.12	14.45
			For >100 To 250, Deduct	-1.45	
			For >250 To 500, Deduct	-2.50	
			For >500 To 1,000, Deduct	-4.03	
			For >1,000, Deduct	-5.57	
			For 316 Stainless Steel, Add	73.09	
			For Aluminum, Add	4.11	
			For Galvanized Steel, Add	14.16	
			For 304 Stainless Steel, Add	65.09	
			For High Strength Steel (HSS), Add	8.42	
05 12 23 00-0521			5/8" Thick (05 12 23 00-0439)		
05 12 23 00-0522	LF		4" x 4" x 5/8" Angle Iron	24.30	8.03
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.41	
			For >500 To 1,000, Deduct	-2.29	
			For >1,000, Deduct	-3.16	
			For 316 Stainless Steel, Add	43.49	
			For Aluminum, Add	2.45	
			For Galvanized Steel, Add	8.43	
			For High Strength Steel (HSS), Add	4.86	
05 12 23 00-0523	LF		5" x 3-1/2" x 5/8" Angle Iron	26.00	8.60
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.51	
			For >500 To 1,000, Deduct	-2.45	
			For >1,000, Deduct	-3.38	
			For 316 Stainless Steel, Add	46.53	
			For Aluminum, Add	2.62	
			For Galvanized Steel, Add	9.01	
			For High Strength Steel (HSS), Add	5.20	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0524	LF		5" x 5" x 5/8" Angle Iron	30.96	10.24
			For >100 To 250, Deduct	-1.02	
			For >250 To 500, Deduct	-1.80	
			For >500 To 1,000, Deduct	-2.91	
			For >1,000, Deduct	-4.03	
			For 316 Stainless Steel, Add	55.39	
			For Aluminum, Add	3.12	
			For Galvanized Steel, Add	10.73	
			For High Strength Steel (HSS), Add	6.19	
05 12 23 00-0525	LF		6" x 4" x 5/8" Angle Iron	30.96	10.24
			For >100 To 250, Deduct	-1.02	
			For >250 To 500, Deduct	-1.80	
			For >500 To 1,000, Deduct	-2.91	
			For >1,000, Deduct	-4.03	
			For 316 Stainless Steel, Add	55.39	
			For Aluminum, Add	3.12	
			For Galvanized Steel, Add	10.73	
			For High Strength Steel (HSS), Add	6.19	
05 12 23 00-0526	LF		6" x 6" x 5/8" Angle Iron	37.46	12.39
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-2.18	
			For >500 To 1,000, Deduct	-3.53	
			For >1,000, Deduct	-4.87	
			For 316 Stainless Steel, Add	67.01	
			For Aluminum, Add	3.77	
			For Galvanized Steel, Add	12.98	
			For High Strength Steel (HSS), Add	7.49	
05 12 23 00-0527	LF		7" x 4" x 5/8" Angle Iron	34.20	11.31
			For >100 To 250, Deduct	-1.13	
			For >250 To 500, Deduct	-1.99	
			For >500 To 1,000, Deduct	-3.22	
			For >1,000, Deduct	-4.45	
			For 316 Stainless Steel, Add	61.18	
			For Aluminum, Add	3.44	
			For Galvanized Steel, Add	11.85	
			For High Strength Steel (HSS), Add	6.84	
05 12 23 00-0528	LF		8" x 6" x 5/8" Angle Iron	44.11	14.59
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-2.56	
			For >500 To 1,000, Deduct	-4.15	
			For >1,000, Deduct	-5.74	
			For 316 Stainless Steel, Add	78.91	
			For Aluminum, Add	4.44	
			For Galvanized Steel, Add	15.29	
			For High Strength Steel (HSS), Add	8.82	
05 12 23 00-0529	LF		8" x 8" x 5/8" Angle Iron	50.62	16.74
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.94	
			For >500 To 1,000, Deduct	-4.76	
			For >1,000, Deduct	-6.59	
			For 316 Stainless Steel, Add	90.56	
			For Aluminum, Add	5.09	
			For Galvanized Steel, Add	17.55	
			For High Strength Steel (HSS), Add	10.12	
05 12 23 00-0530			3/4" Thick (05 12 23 00-0439)		
05 12 23 00-0531	LF		4" x 4" x 3/4" Angle Iron	27.86	8.88
			For >100 To 250, Deduct	-0.89	
			For >250 To 500, Deduct	-1.58	
			For >500 To 1,000, Deduct	-2.58	
			For >1,000, Deduct	-3.57	
			For 316 Stainless Steel, Add	51.26	
			For Aluminum, Add	2.88	
			For Galvanized Steel, Add	9.93	
			For High Strength Steel (HSS), Add	5.57	
05 12 23 00-0532	LF		5" x 3-1/2" x 3/4" Angle Iron	29.80	9.50
			For >100 To 250, Deduct	-0.95	
			For >250 To 500, Deduct	-1.70	
			For >500 To 1,000, Deduct	-2.76	
			For >1,000, Deduct	-3.82	
			For 316 Stainless Steel, Add	54.82	
			For Aluminum, Add	3.08	
			For Galvanized Steel, Add	10.62	
			For High Strength Steel (HSS), Add	5.96	
05 12 23 00-0533	LF		5" x 5" x 3/4" Angle Iron	35.53	11.32
			For >100 To 250, Deduct	-1.13	
			For >250 To 500, Deduct	-2.02	
			For >500 To 1,000, Deduct	-3.29	
			For >1,000, Deduct	-4.55	
			For 316 Stainless Steel, Add	65.38	
			For Aluminum, Add	3.68	
			For Galvanized Steel, Add	12.67	
			For High Strength Steel (HSS), Add	7.11	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0534	LF		6" x 4" x 3/4" Angle Iron	35.53	11.32
			For >100 To 250, Deduct	-1.13	
			For >250 To 500, Deduct	-2.02	
			For >500 To 1,000, Deduct	-3.29	
			For >1,000, Deduct	-4.55	
			For 316 Stainless Steel, Add	65.38	
			For Aluminum, Add	3.68	
			For Galvanized Steel, Add	12.67	
			For High Strength Steel (HSS), Add	7.11	
05 12 23 00-0535	LF		6" x 6" x 3/4" Angle Iron	43.21	13.77
			For >100 To 250, Deduct	-1.38	
			For >250 To 500, Deduct	-2.46	
			For >500 To 1,000, Deduct	-4.00	
			For >1,000, Deduct	-5.54	
			For 316 Stainless Steel, Add	79.49	
			For Aluminum, Add	4.47	
			For Galvanized Steel, Add	15.40	
			For High Strength Steel (HSS), Add	8.64	
05 12 23 00-0536	LF		7" x 4" x 3/4" Angle Iron	39.43	12.57
			For >100 To 250, Deduct	-1.26	
			For >250 To 500, Deduct	-2.24	
			For >500 To 1,000, Deduct	-3.65	
			For >1,000, Deduct	-5.05	
			For 316 Stainless Steel, Add	72.54	
			For Aluminum, Add	4.08	
			For Galvanized Steel, Add	14.06	
			For High Strength Steel (HSS), Add	7.89	
05 12 23 00-0537	LF		8" x 4" x 3/4" Angle Iron	43.21	13.77
			For >100 To 250, Deduct	-1.38	
			For >250 To 500, Deduct	-2.46	
			For >500 To 1,000, Deduct	-4.00	
			For >1,000, Deduct	-5.54	
			For 316 Stainless Steel, Add	79.49	
			For Aluminum, Add	4.47	
			For Galvanized Steel, Add	15.40	
			For High Strength Steel (HSS), Add	8.64	
05 12 23 00-0538	LF		8" x 6" x 3/4" Angle Iron	50.88	16.22
			For >100 To 250, Deduct	-1.62	
			For >250 To 500, Deduct	-2.89	
			For >500 To 1,000, Deduct	-4.71	
			For >1,000, Deduct	-6.52	
			For 316 Stainless Steel, Add	93.63	
			For Aluminum, Add	5.27	
			For Galvanized Steel, Add	18.14	
			For High Strength Steel (HSS), Add	10.18	
05 12 23 00-0539	LF		8" x 8" x 3/4" Angle Iron	58.56	18.66
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-3.33	
			For >500 To 1,000, Deduct	-5.42	
			For >1,000, Deduct	-7.50	
			For 316 Stainless Steel, Add	107.74	
			For Aluminum, Add	6.06	
			For Galvanized Steel, Add	20.88	
			For High Strength Steel (HSS), Add	11.71	
05 12 23 00-0540			7/8" Thick (05 12 23 00-0439)		
05 12 23 00-0541	LF		5" x 5" x 7/8" Angle Iron	39.78	12.18
			For >100 To 250, Deduct	-1.22	
			For >250 To 500, Deduct	-2.21	
			For >500 To 1,000, Deduct	-3.61	
			For >1,000, Deduct	-5.01	
			For 316 Stainless Steel, Add	75.30	
			For Aluminum, Add	4.24	
			For Galvanized Steel, Add	14.59	
			For High Strength Steel (HSS), Add	7.96	
05 12 23 00-0542	LF		6" x 4" x 7/8" Angle Iron	39.78	12.18
			For >100 To 250, Deduct	-1.22	
			For >250 To 500, Deduct	-2.21	
			For >500 To 1,000, Deduct	-3.61	
			For >1,000, Deduct	-5.01	
			For 316 Stainless Steel, Add	75.30	
			For Aluminum, Add	4.24	
			For Galvanized Steel, Add	14.59	
			For High Strength Steel (HSS), Add	7.96	
05 12 23 00-0543	LF		6" x 6" x 7/8" Angle Iron	48.42	14.83
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-2.69	
			For >500 To 1,000, Deduct	-4.40	
			For >1,000, Deduct	-6.10	
			For 316 Stainless Steel, Add	91.68	
			For Aluminum, Add	5.16	
			For Galvanized Steel, Add	17.76	
			For High Strength Steel (HSS), Add	9.68	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0544	LF		8" x 6" x 7/8" Angle Iron	57.19	17.51
			For >100 To 250, Deduct	-1.75	
			For >250 To 500, Deduct	-3.18	
			For >500 To 1,000, Deduct	-5.19	
			For >1,000, Deduct	-7.21	
			For 316 Stainless Steel, Add	108.29	
			For Aluminum, Add	6.09	
			For Galvanized Steel, Add	20.98	
			For High Strength Steel (HSS), Add	11.44	
05 12 23 00-0545	LF		8" x 8" x 7/8" Angle Iron	65.82	20.16
			For >100 To 250, Deduct	-2.02	
			For >250 To 500, Deduct	-3.66	
			For >500 To 1,000, Deduct	-5.98	
			For >1,000, Deduct	-8.30	
			For 316 Stainless Steel, Add	124.61	
			For Aluminum, Add	7.01	
			For Galvanized Steel, Add	24.14	
			For High Strength Steel (HSS), Add	13.16	
05 12 23 00-0546 Bar Channel (05 12 23 00-0438)					
05 12 23 00-0547	LF		1" x 1/2" x 1/8" Thick Bar Channel	3.63	
			For 316 Stainless Steel, Add	3.01	
			For Aluminum, Add	0.17	
			For Galvanized Steel, Add	0.58	
			For 304 Stainless Steel, Add	2.68	
			For High Strength Steel (HSS), Add	0.73	
05 12 23 00-0548	LF		1-1/4" x 1/2" x 1/8" Thick Bar Channel	4.06	
			For 316 Stainless Steel, Add	3.62	
			For Aluminum, Add	0.20	
			For Galvanized Steel, Add	0.70	
			For 304 Stainless Steel, Add	3.22	
			For High Strength Steel (HSS), Add	0.81	
05 12 23 00-0549	LF		1-1/2" x 1/2" x 1/8" Thick Bar Channel	4.41	
			For 316 Stainless Steel, Add	4.00	
			For Aluminum, Add	0.23	
			For Galvanized Steel, Add	0.78	
			For 304 Stainless Steel, Add	3.56	
			For High Strength Steel (HSS), Add	0.88	
05 12 23 00-0550	LF		1-1/2" x 3/4" x 1/8" Thick Bar Channel	5.08	
			For 316 Stainless Steel, Add	4.16	
			For Aluminum, Add	0.23	
			For Galvanized Steel, Add	0.81	
			For 304 Stainless Steel, Add	3.71	
			For High Strength Steel (HSS), Add	1.02	
05 12 23 00-0551	LF		2" x 1/2" x 1/8" Thick Bar Channel	5.37	
			For 316 Stainless Steel, Add	5.09	
			For Aluminum, Add	0.29	
			For Galvanized Steel, Add	0.99	
			For 304 Stainless Steel, Add	4.53	
05 12 23 00-0552	LF		2" x 1" x 1/8" Thick Bar Channel	7.19	
			For 316 Stainless Steel, Add	5.70	
			For Aluminum, Add	0.32	
			For Galvanized Steel, Add	1.10	
			For 304 Stainless Steel, Add	5.07	
05 12 23 00-0553 Channels - C (05 12 23 00-0438)					
05 12 23 00-0554	LF		C2 x 1.78 - 2" Wide Channel	5.96	3.34
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.48	
			For >500 To 1,000, Deduct	-0.74	
			For >1,000, Deduct	-1.00	
			For 316 Stainless Steel, Add	4.83	
			For Aluminum, Add	0.27	
			For Galvanized Steel, Add	0.94	
			For 304 Stainless Steel, Add	4.30	
05 12 23 00-0555	LF		C3 x 4.1 - 3" Wide Channel	9.95	4.79
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.73	
			For >500 To 1,000, Deduct	-1.14	
			For >1,000, Deduct	-1.55	
			For 316 Stainless Steel, Add	11.36	
			For Aluminum, Add	0.64	
			For Galvanized Steel, Add	2.20	
			For 304 Stainless Steel, Add	10.12	
05 12 23 00-0556	LF		C3 x 5 - 3" Wide Channel	12.13	5.85
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-0.89	
			For >500 To 1,000, Deduct	-1.39	
			For >1,000, Deduct	-1.88	
			For 316 Stainless Steel, Add	13.86	
			For Aluminum, Add	0.78	
			For Galvanized Steel, Add	2.68	
			For 304 Stainless Steel, Add	12.34	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0557	LF		C3 x 6 - 3" Wide Channel	14.56	7.02
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.07	
			For >500 To 1,000, Deduct	-1.67	
			For >1,000, Deduct	-2.26	
			For 316 Stainless Steel, Add	16.61	
			For Aluminum, Add	0.93	
			For Galvanized Steel, Add	3.22	
			For 304 Stainless Steel, Add	14.79	
05 12 23 00-0558	LF		C4 x 5.4 - 4" Wide Channel	12.35	5.76
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.88	
			For >500 To 1,000, Deduct	-1.39	
			For >1,000, Deduct	-1.89	
			For 316 Stainless Steel, Add	14.94	
			For Aluminum, Add	0.84	
			For Galvanized Steel, Add	2.90	
			For 304 Stainless Steel, Add	13.31	
05 12 23 00-0559	LF		C4 x 7.25 - 4" Wide Channel	16.58	7.73
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-1.19	
			For >500 To 1,000, Deduct	-1.86	
			For >1,000, Deduct	-2.53	
			For 316 Stainless Steel, Add	20.06	
			For Aluminum, Add	1.13	
			For Galvanized Steel, Add	3.89	
			For 304 Stainless Steel, Add	17.87	
05 12 23 00-0560	LF		C5 x 6.7 - 5" Wide Channel	14.76	6.71
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.04	
			For >500 To 1,000, Deduct	-1.63	
			For >1,000, Deduct	-2.23	
			For 316 Stainless Steel, Add	18.56	
			For Aluminum, Add	1.04	
			For Galvanized Steel, Add	3.60	
			For 304 Stainless Steel, Add	16.53	
05 12 23 00-0561	LF		C5 x 9 - 5" Wide Channel	19.82	9.03
			For >100 To 250, Deduct	-0.90	
			For >250 To 500, Deduct	-1.40	
			For >500 To 1,000, Deduct	-2.19	
			For >1,000, Deduct	-2.99	
			For 316 Stainless Steel, Add	24.93	
			For Aluminum, Add	1.40	
			For Galvanized Steel, Add	4.83	
			For 304 Stainless Steel, Add	22.20	
05 12 23 00-0562	LF		C6 x 8.2 - 6" Wide Channel	17.85	8.06
			For >100 To 250, Deduct	-0.81	
			For >250 To 500, Deduct	-1.25	
			For >500 To 1,000, Deduct	-1.97	
			For >1,000, Deduct	-2.68	
			For 316 Stainless Steel, Add	22.72	
			For Aluminum, Add	1.28	
			For Galvanized Steel, Add	4.40	
			For 304 Stainless Steel, Add	20.24	
05 12 23 00-0563	LF		C6 x 10.5 - 6" Wide Channel	22.85	10.32
			For >100 To 250, Deduct	-1.03	
			For >250 To 500, Deduct	-1.60	
			For >500 To 1,000, Deduct	-2.52	
			For >1,000, Deduct	-3.43	
			For 316 Stainless Steel, Add	29.09	
			For Aluminum, Add	1.64	
			For Galvanized Steel, Add	5.64	
			For 304 Stainless Steel, Add	25.91	
05 12 23 00-0564	LF		C6 x 13 - 6" Wide Channel	28.29	12.78
			For >100 To 250, Deduct	-1.28	
			For >250 To 500, Deduct	-1.99	
			For >500 To 1,000, Deduct	-3.12	
			For >1,000, Deduct	-4.25	
			For 316 Stainless Steel, Add	36.00	
			For Aluminum, Add	2.03	
			For Galvanized Steel, Add	6.98	
			For 304 Stainless Steel, Add	32.06	
05 12 23 00-0565	LF		C7 x 9.8 - 7" Wide Channel	21.27	9.59
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.49	
			For >500 To 1,000, Deduct	-2.34	
			For >1,000, Deduct	-3.19	
			For 316 Stainless Steel, Add	27.14	
			For Aluminum, Add	1.53	
			For Galvanized Steel, Add	5.26	
			For 304 Stainless Steel, Add	24.17	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0566	LF		C7 x 12.25 - 7" Wide Channel.....	26.59	12.00
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.86	
			For >500 To 1,000, Deduct	-2.93	
			For >1,000, Deduct	-3.99	
			For 316 Stainless Steel, Add	33.92	
			For Aluminum, Add	1.91	
			For Galvanized Steel, Add	6.57	
			For 304 Stainless Steel, Add	30.21	
05 12 23 00-0567	LF		C7 x 14.75 - 7" Wide Channel.....	32.03	14.44
			For >100 To 250, Deduct	-1.45	
			For >250 To 500, Deduct	-2.25	
			For >500 To 1,000, Deduct	-3.53	
			For >1,000, Deduct	-4.81	
			For 316 Stainless Steel, Add	40.83	
			For Aluminum, Add	2.30	
			For Galvanized Steel, Add	7.91	
			For 304 Stainless Steel, Add	36.37	
05 12 23 00-0568	LF		C8 x 11.5 - 8" Wide Channel.....	24.03	10.56
			For >100 To 250, Deduct	-1.06	
			For >250 To 500, Deduct	-1.66	
			For >500 To 1,000, Deduct	-2.61	
			For >1,000, Deduct	-3.56	
			For 316 Stainless Steel, Add	31.84	
			For Aluminum, Add	1.79	
			For Galvanized Steel, Add	6.17	
			For 304 Stainless Steel, Add	28.36	
05 12 23 00-0569	LF		C8 x 13.75 - 8" Wide Channel.....	28.73	12.62
			For >100 To 250, Deduct	-1.26	
			For >250 To 500, Deduct	-1.98	
			For >500 To 1,000, Deduct	-3.12	
			For >1,000, Deduct	-4.26	
			For 316 Stainless Steel, Add	38.08	
			For Aluminum, Add	2.14	
			For Galvanized Steel, Add	7.38	
			For 304 Stainless Steel, Add	33.92	
05 12 23 00-0570	LF		C8 x 18.75 - 8" Wide Channel.....	39.17	17.21
			For >100 To 250, Deduct	-1.72	
			For >250 To 500, Deduct	-2.70	
			For >500 To 1,000, Deduct	-4.25	
			For >1,000, Deduct	-5.81	
			For 316 Stainless Steel, Add	51.90	
			For Aluminum, Add	2.92	
			For Galvanized Steel, Add	10.06	
			For 304 Stainless Steel, Add	46.23	
05 12 23 00-0571	LF		C9 x 13.4 - 9" Wide Channel.....	28.00	12.30
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.93	
			For >500 To 1,000, Deduct	-3.04	
			For >1,000, Deduct	-4.15	
			For 316 Stainless Steel, Add	37.09	
			For Aluminum, Add	2.09	
			For Galvanized Steel, Add	7.19	
			For 304 Stainless Steel, Add	33.03	
05 12 23 00-0572	LF		C9 x 15 - 9" Wide Channel.....	31.34	13.77
			For >100 To 250, Deduct	-1.38	
			For >250 To 500, Deduct	-2.16	
			For >500 To 1,000, Deduct	-3.40	
			For >1,000, Deduct	-4.65	
			For 316 Stainless Steel, Add	41.54	
			For Aluminum, Add	2.34	
			For Galvanized Steel, Add	8.05	
			For 304 Stainless Steel, Add	36.99	
05 12 23 00-0573	LF		C9 x 20 - 9" Wide Channel.....	41.79	18.36
			For >100 To 250, Deduct	-1.84	
			For >250 To 500, Deduct	-2.88	
			For >500 To 1,000, Deduct	-4.54	
			For >1,000, Deduct	-6.19	
			For 316 Stainless Steel, Add	55.39	
			For Aluminum, Add	3.12	
			For Galvanized Steel, Add	10.73	
			For 304 Stainless Steel, Add	49.33	
05 12 23 00-0574	LF		C10 x 15.3 - 10" Wide Channel.....	31.96	14.04
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-2.20	
			For >500 To 1,000, Deduct	-3.47	
			For >1,000, Deduct	-4.74	
			For 316 Stainless Steel, Add	42.37	
			For Aluminum, Add	2.38	
			For Galvanized Steel, Add	8.21	
			For 304 Stainless Steel, Add	37.73	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0575	LF		C10 x 20 - 10" Wide Channel	41.79	18.36
			For >100 To 250, Deduct	-1.84	
			For >250 To 500, Deduct	-2.88	
			For >500 To 1,000, Deduct	-4.54	
			For >1,000, Deduct	-6.19	
			For 316 Stainless Steel, Add	55.39	
			For Aluminum, Add	3.12	
			For Galvanized Steel, Add	10.73	
			For 304 Stainless Steel, Add	49.33	
05 12 23 00-0576	LF		C10 x 25 - 10" Wide Channel	52.23	22.95
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-3.60	
			For >500 To 1,000, Deduct	-5.67	
			For >1,000, Deduct	-7.74	
			For 316 Stainless Steel, Add	69.22	
			For Aluminum, Add	3.89	
			For Galvanized Steel, Add	13.41	
			For 304 Stainless Steel, Add	61.65	
05 12 23 00-0577	LF		C10 x 30 - 10" Wide Channel	62.68	27.54
			For >100 To 250, Deduct	-2.75	
			For >250 To 500, Deduct	-4.32	
			For >500 To 1,000, Deduct	-6.81	
			For >1,000, Deduct	-9.29	
			For 316 Stainless Steel, Add	83.07	
			For Aluminum, Add	4.67	
			For Galvanized Steel, Add	16.10	
			For 304 Stainless Steel, Add	73.99	
05 12 23 00-0578	LF		C12 x 20.7 - 12" Wide Channel	43.25	19.00
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.98	
			For >500 To 1,000, Deduct	-4.70	
			For >1,000, Deduct	-6.41	
			For 316 Stainless Steel, Add	57.31	
			For Aluminum, Add	3.22	
			For Galvanized Steel, Add	11.10	
			For 304 Stainless Steel, Add	51.04	
05 12 23 00-0579	LF		C12 x 25 - 12" Wide Channel	52.23	22.95
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-3.60	
			For >500 To 1,000, Deduct	-5.67	
			For >1,000, Deduct	-7.74	
			For 316 Stainless Steel, Add	69.22	
			For Aluminum, Add	3.89	
			For Galvanized Steel, Add	13.41	
			For 304 Stainless Steel, Add	61.65	
05 12 23 00-0580	LF		C12 x 30 - 12" Wide Channel	62.68	27.54
			For >100 To 250, Deduct	-2.75	
			For >250 To 500, Deduct	-4.32	
			For >500 To 1,000, Deduct	-6.81	
			For >1,000, Deduct	-9.29	
			For 316 Stainless Steel, Add	83.07	
			For Aluminum, Add	4.67	
			For Galvanized Steel, Add	16.10	
			For 304 Stainless Steel, Add	73.99	
05 12 23 00-0581	LF		C15 x 33.9 - 15" Wide Channel	70.82	31.12
			For >100 To 250, Deduct	-3.11	
			For >250 To 500, Deduct	-4.88	
			For >500 To 1,000, Deduct	-7.69	
			For >1,000, Deduct	-10.50	
			For 316 Stainless Steel, Add	93.86	
			For Aluminum, Add	5.28	
			For Galvanized Steel, Add	18.18	
			For 304 Stainless Steel, Add	83.59	
05 12 23 00-0582	LF		C15 x 40 - 15" Wide Channel	83.57	36.72
			For >100 To 250, Deduct	-3.67	
			For >250 To 500, Deduct	-5.76	
			For >500 To 1,000, Deduct	-9.07	
			For >1,000, Deduct	-12.39	
			For 316 Stainless Steel, Add	110.75	
			For Aluminum, Add	6.23	
			For Galvanized Steel, Add	21.46	
			For 304 Stainless Steel, Add	98.64	
05 12 23 00-0583	LF		C15 x 50 - 15" Wide Channel	104.46	45.90
			For >100 To 250, Deduct	-4.59	
			For >250 To 500, Deduct	-7.20	
			For >500 To 1,000, Deduct	-11.34	
			For >1,000, Deduct	-15.48	
			For 316 Stainless Steel, Add	138.43	
			For Aluminum, Add	7.79	
			For Galvanized Steel, Add	26.82	
			For 304 Stainless Steel, Add	123.29	

05 12 23 00-0584 Miscellaneous Channels - MC (05 12 23 00-0438)

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0585	LF		MC6 x 12 - 6" Wide Channel.....	26.11	11.80
			For >100 To 250, Deduct	-1.18	
			For >250 To 500, Deduct	-1.83	
			For >500 To 1,000, Deduct	-2.88	
			For >1,000, Deduct	-3.92	
			For 316 Stainless Steel, Add	33.22	
			For Aluminum, Add	1.87	
			For Galvanized Steel, Add	6.44	
			For 304 Stainless Steel, Add	29.58	
05 12 23 00-0586	LF		MC6 x 15.1 - 6" Wide Channel.....	32.86	14.85
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-2.31	
			For >500 To 1,000, Deduct	-3.62	
			For >1,000, Deduct	-4.94	
			For 316 Stainless Steel, Add	41.82	
			For Aluminum, Add	2.35	
			For Galvanized Steel, Add	8.10	
			For 304 Stainless Steel, Add	37.25	
05 12 23 00-0587	LF		MC6 x 15.3 - 6" Wide Channel.....	33.29	15.04
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-2.34	
			For >500 To 1,000, Deduct	-3.67	
			For >1,000, Deduct	-5.00	
			For 316 Stainless Steel, Add	42.37	
			For Aluminum, Add	2.38	
			For Galvanized Steel, Add	8.21	
			For 304 Stainless Steel, Add	37.73	
05 12 23 00-0588	LF		MC6 x 16.3 - 6" Wide Channel.....	35.47	16.02
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.49	
			For >500 To 1,000, Deduct	-3.91	
			For >1,000, Deduct	-5.33	
			For 316 Stainless Steel, Add	45.12	
			For Aluminum, Add	2.54	
			For Galvanized Steel, Add	8.74	
			For 304 Stainless Steel, Add	40.19	
05 12 23 00-0589	LF		MC6 x 18 - 6" Wide Channel.....	39.17	17.70
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-2.75	
			For >500 To 1,000, Deduct	-4.32	
			For >1,000, Deduct	-5.89	
			For 316 Stainless Steel, Add	49.86	
			For Aluminum, Add	2.80	
			For Galvanized Steel, Add	9.66	
			For 304 Stainless Steel, Add	44.40	
05 12 23 00-0590	LF		MC7 x 17.6 - 7" Wide Channel.....	38.21	17.24
			For >100 To 250, Deduct	-1.72	
			For >250 To 500, Deduct	-2.68	
			For >500 To 1,000, Deduct	-4.21	
			For >1,000, Deduct	-5.74	
			For 316 Stainless Steel, Add	48.74	
			For Aluminum, Add	2.74	
			For Galvanized Steel, Add	9.44	
			For 304 Stainless Steel, Add	43.41	
05 12 23 00-0591	LF		MC7 x 19.1 - 7" Wide Channel.....	41.47	18.71
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.91	
			For >500 To 1,000, Deduct	-4.57	
			For >1,000, Deduct	-6.23	
			For 316 Stainless Steel, Add	52.90	
			For Aluminum, Add	2.98	
			For Galvanized Steel, Add	10.25	
			For 304 Stainless Steel, Add	47.11	
05 12 23 00-0592	LF		MC7 x 22.7 - 7" Wide Channel.....	49.28	22.23
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-3.46	
			For >500 To 1,000, Deduct	-5.43	
			For >1,000, Deduct	-7.40	
			For 316 Stainless Steel, Add	62.85	
			For Aluminum, Add	3.54	
			For Galvanized Steel, Add	12.18	
			For 304 Stainless Steel, Add	55.97	
05 12 23 00-0593	LF		MC8 x 8.5 - 8" Wide Channel.....	17.76	7.80
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.22	
			For >500 To 1,000, Deduct	-1.93	
			For >1,000, Deduct	-2.63	
			For 316 Stainless Steel, Add	23.52	
			For Aluminum, Add	1.32	
			For Galvanized Steel, Add	4.56	
			For 304 Stainless Steel, Add	20.95	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0594	LF		MC8 x 18.7 - 8" Wide Channel	39.07	17.16
			For >100 To 250, Deduct	-1.72	
			For >250 To 500, Deduct	-2.69	
			For >500 To 1,000, Deduct	-4.24	
			For >1,000, Deduct	-5.79	
			For 316 Stainless Steel, Add	51.78	
			For Aluminum, Add	2.91	
			For Galvanized Steel, Add	10.03	
			For 304 Stainless Steel, Add	46.11	
05 12 23 00-0595	LF		MC8 x 20 - 8" Wide Channel	41.79	18.36
			For >100 To 250, Deduct	-1.84	
			For >250 To 500, Deduct	-2.88	
			For >500 To 1,000, Deduct	-4.54	
			For >1,000, Deduct	-6.19	
			For 316 Stainless Steel, Add	55.39	
			For Aluminum, Add	3.12	
			For Galvanized Steel, Add	10.73	
			For 304 Stainless Steel, Add	49.33	
05 12 23 00-0596	LF		MC8 x 21.4 - 8" Wide Channel	44.72	19.65
			For >100 To 250, Deduct	-1.97	
			For >250 To 500, Deduct	-3.08	
			For >500 To 1,000, Deduct	-4.86	
			For >1,000, Deduct	-6.63	
			For 316 Stainless Steel, Add	59.26	
			For Aluminum, Add	3.33	
			For Galvanized Steel, Add	11.48	
			For 304 Stainless Steel, Add	52.78	
05 12 23 00-0597	LF		MC8 x 22.8 - 8" Wide Channel	47.63	20.94
			For >100 To 250, Deduct	-2.09	
			For >250 To 500, Deduct	-3.28	
			For >500 To 1,000, Deduct	-5.17	
			For >1,000, Deduct	-7.06	
			For 316 Stainless Steel, Add	63.14	
			For Aluminum, Add	3.55	
			For Galvanized Steel, Add	12.23	
			For 304 Stainless Steel, Add	56.23	
05 12 23 00-0598	LF		MC9 x 23.9 - 9" Wide Channel	49.93	21.94
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-3.44	
			For >500 To 1,000, Deduct	-5.42	
			For >1,000, Deduct	-7.40	
			For 316 Stainless Steel, Add	66.18	
			For Aluminum, Add	3.72	
			For Galvanized Steel, Add	12.82	
			For 304 Stainless Steel, Add	58.94	
05 12 23 00-0599	LF		MC9 x 25.4 - 9" Wide Channel	53.06	23.31
			For >100 To 250, Deduct	-2.33	
			For >250 To 500, Deduct	-3.66	
			For >500 To 1,000, Deduct	-5.76	
			For >1,000, Deduct	-7.86	
			For 316 Stainless Steel, Add	70.34	
			For Aluminum, Add	3.96	
			For Galvanized Steel, Add	13.63	
			For 304 Stainless Steel, Add	62.64	
05 12 23 00-0600	LF		MC10 x 6.5 - 10" Wide Channel.....	13.58	5.96
			For >100 To 250, Deduct	-0.60	
			For >250 To 500, Deduct	-0.94	
			For >500 To 1,000, Deduct	-1.48	
			For >1,000, Deduct	-2.01	
			For 316 Stainless Steel, Add	17.98	
			For Aluminum, Add	1.01	
			For Galvanized Steel, Add	3.48	
			For 304 Stainless Steel, Add	16.02	
05 12 23 00-0601	LF		MC10 x 8.4 - 10" Wide Channel.....	17.55	7.71
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.91	
			For >1,000, Deduct	-2.60	
			For 316 Stainless Steel, Add	23.26	
			For Aluminum, Add	1.31	
			For Galvanized Steel, Add	4.51	
			For 304 Stainless Steel, Add	20.72	
05 12 23 00-0602	LF		MC10 x 21.9 - 10" Wide Channel.....	45.75	20.11
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-3.15	
			For >500 To 1,000, Deduct	-4.97	
			For >1,000, Deduct	-6.78	
			For 316 Stainless Steel, Add	60.64	
			For Aluminum, Add	3.41	
			For Galvanized Steel, Add	11.75	
			For 304 Stainless Steel, Add	54.01	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0603	LF		MC10 x 24.9 - 10" Wide Channel.....	52.03	22.86
			For >100 To 250, Deduct	-2.29	
			For >250 To 500, Deduct	-3.59	
			For >500 To 1,000, Deduct	-5.65	
			For >1,000, Deduct	-7.71	
			For 316 Stainless Steel, Add	68.96	
			For Aluminum, Add	3.88	
			For Galvanized Steel, Add	13.36	
			For 304 Stainless Steel, Add	61.42	
05 12 23 00-0604	LF		MC10 x 25.3 - 10" Wide Channel.....	52.85	23.23
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-3.64	
			For >500 To 1,000, Deduct	-5.74	
			For >1,000, Deduct	-7.83	
			For 316 Stainless Steel, Add	70.05	
			For Aluminum, Add	3.94	
			For Galvanized Steel, Add	13.57	
			For 304 Stainless Steel, Add	62.39	
05 12 23 00-0605	LF		MC10 x 28.3 - 10" Wide Channel.....	59.14	25.98
			For >100 To 250, Deduct	-2.60	
			For >250 To 500, Deduct	-4.08	
			For >500 To 1,000, Deduct	-6.42	
			For >1,000, Deduct	-8.77	
			For 316 Stainless Steel, Add	78.37	
			For Aluminum, Add	4.41	
			For Galvanized Steel, Add	15.18	
			For 304 Stainless Steel, Add	69.80	
05 12 23 00-0606	LF		MC10 x 28.5 - 10" Wide Channel.....	59.54	26.16
			For >100 To 250, Deduct	-2.62	
			For >250 To 500, Deduct	-4.10	
			For >500 To 1,000, Deduct	-6.47	
			For >1,000, Deduct	-8.83	
			For 316 Stainless Steel, Add	78.91	
			For Aluminum, Add	4.44	
			For Galvanized Steel, Add	15.29	
			For 304 Stainless Steel, Add	70.28	
05 12 23 00-0607	LF		MC10 x 33.6 - 10" Wide Channel.....	70.20	30.85
			For >100 To 250, Deduct	-3.08	
			For >250 To 500, Deduct	-4.84	
			For >500 To 1,000, Deduct	-7.62	
			For >1,000, Deduct	-10.41	
			For 316 Stainless Steel, Add	93.02	
			For Aluminum, Add	5.23	
			For Galvanized Steel, Add	18.02	
			For 304 Stainless Steel, Add	82.85	
05 12 23 00-0608	LF		MC10 x 41.1 - 10" Wide Channel.....	85.87	37.73
			For >100 To 250, Deduct	-3.77	
			For >250 To 500, Deduct	-5.92	
			For >500 To 1,000, Deduct	-9.32	
			For >1,000, Deduct	-12.73	
			For 316 Stainless Steel, Add	113.79	
			For Aluminum, Add	6.40	
			For Galvanized Steel, Add	22.05	
			For 304 Stainless Steel, Add	101.35	
05 12 23 00-0609	LF		MC12 x 30.9 - 12" Wide Channel.....	64.57	28.36
			For >100 To 250, Deduct	-2.84	
			For >250 To 500, Deduct	-4.45	
			For >500 To 1,000, Deduct	-7.01	
			For >1,000, Deduct	-9.57	
			For 316 Stainless Steel, Add	85.57	
			For Aluminum, Add	4.81	
			For Galvanized Steel, Add	16.58	
			For 304 Stainless Steel, Add	76.21	
05 12 23 00-0610	LF		MC12 x 32.9 - 12" Wide Channel.....	68.74	30.20
			For >100 To 250, Deduct	-3.02	
			For >250 To 500, Deduct	-4.74	
			For >500 To 1,000, Deduct	-7.46	
			For >1,000, Deduct	-10.19	
			For 316 Stainless Steel, Add	91.10	
			For Aluminum, Add	5.12	
			For Galvanized Steel, Add	17.65	
			For 304 Stainless Steel, Add	81.14	
05 12 23 00-0611	LF		MC12 x 35 - 12" Wide Channel.....	73.12	32.13
			For >100 To 250, Deduct	-3.21	
			For >250 To 500, Deduct	-5.04	
			For >500 To 1,000, Deduct	-7.94	
			For >1,000, Deduct	-10.84	
			For 316 Stainless Steel, Add	96.90	
			For Aluminum, Add	5.45	
			For Galvanized Steel, Add	18.77	
			For 304 Stainless Steel, Add	86.30	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0612 LF MC12 x 37 - 12" Wide Channel	77.31	33.97
For >100 To 250, Deduct	-3.40	
For >250 To 500, Deduct	-5.33	
For >500 To 1,000, Deduct	-8.39	
For >1,000, Deduct	-11.46	
For 316 Stainless Steel, Add	102.46	
For Aluminum, Add	5.76	
For Galvanized Steel, Add	19.85	
For 304 Stainless Steel, Add	91.26	
05 12 23 00-0613 LF MC12 x 40 - 12" Wide Channel	83.57	36.72
For >100 To 250, Deduct	-3.67	
For >250 To 500, Deduct	-5.76	
For >500 To 1,000, Deduct	-9.07	
For >1,000, Deduct	-12.39	
For 316 Stainless Steel, Add	110.75	
For Aluminum, Add	6.23	
For Galvanized Steel, Add	21.46	
For 304 Stainless Steel, Add	98.64	
05 12 23 00-0614 LF MC12 x 45 - 12" Wide Channel	94.02	41.31
For >100 To 250, Deduct	-4.13	
For >250 To 500, Deduct	-6.48	
For >500 To 1,000, Deduct	-10.21	
For >1,000, Deduct	-13.94	
For 316 Stainless Steel, Add	124.61	
For Aluminum, Add	7.01	
For Galvanized Steel, Add	24.14	
For 304 Stainless Steel, Add	110.98	
05 12 23 00-0615 LF MC12 x 50 - 12" Wide Channel	104.46	45.90
For >100 To 250, Deduct	-4.59	
For >250 To 500, Deduct	-7.20	
For >500 To 1,000, Deduct	-11.34	
For >1,000, Deduct	-15.48	
For 316 Stainless Steel, Add	138.43	
For Aluminum, Add	7.79	
For Galvanized Steel, Add	26.82	
For 304 Stainless Steel, Add	123.29	
05 12 23 00-0616 LF MC13 x 31.8 - 13" Wide Channel	66.44	29.19
For >100 To 250, Deduct	-2.92	
For >250 To 500, Deduct	-4.58	
For >500 To 1,000, Deduct	-7.21	
For >1,000, Deduct	-9.85	
For 316 Stainless Steel, Add	88.06	
For Aluminum, Add	4.95	
For Galvanized Steel, Add	17.06	
For 304 Stainless Steel, Add	78.43	
05 12 23 00-0617 LF MC13 x 35 - 13" Wide Channel	73.12	32.13
For >100 To 250, Deduct	-3.21	
For >250 To 500, Deduct	-5.04	
For >500 To 1,000, Deduct	-7.94	
For >1,000, Deduct	-10.84	
For 316 Stainless Steel, Add	96.90	
For Aluminum, Add	5.45	
For Galvanized Steel, Add	18.77	
For 304 Stainless Steel, Add	86.30	
05 12 23 00-0618 LF MC13 x 40 - 13" Wide Channel	83.57	36.72
For >100 To 250, Deduct	-3.67	
For >250 To 500, Deduct	-5.76	
For >500 To 1,000, Deduct	-9.07	
For >1,000, Deduct	-12.39	
For 316 Stainless Steel, Add	110.75	
For Aluminum, Add	6.23	
For Galvanized Steel, Add	21.46	
For 304 Stainless Steel, Add	98.64	
05 12 23 00-0619 LF MC13 x 50 - 13" Wide Channel	104.46	45.90
For >100 To 250, Deduct	-4.59	
For >250 To 500, Deduct	-7.20	
For >500 To 1,000, Deduct	-11.34	
For >1,000, Deduct	-15.48	
For 316 Stainless Steel, Add	138.43	
For Aluminum, Add	7.79	
For Galvanized Steel, Add	26.82	
For 304 Stainless Steel, Add	123.29	
05 12 23 00-0620 LF MC18 x 42.7 - 18" Wide Channel	89.22	39.20
For >100 To 250, Deduct	-3.92	
For >250 To 500, Deduct	-6.15	
For >500 To 1,000, Deduct	-9.69	
For >1,000, Deduct	-13.23	
For 316 Stainless Steel, Add	118.24	
For Aluminum, Add	6.65	
For Galvanized Steel, Add	22.91	
For 304 Stainless Steel, Add	105.31	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0621	LF		MC18 x 45.8 - 18" Wide Channel.....	95.69	42.04
			For >100 To 250, Deduct	-4.20	
			For >250 To 500, Deduct	-6.60	
			For >500 To 1,000, Deduct	-10.39	
			For >1,000, Deduct	-14.18	
			For 316 Stainless Steel, Add	126.82	
			For Aluminum, Add	7.13	
			For Galvanized Steel, Add	24.57	
			For 304 Stainless Steel, Add	112.95	
05 12 23 00-0622	LF		MC18 x 51.9 - 18" Wide Channel.....	108.43	47.64
			For >100 To 250, Deduct	-4.76	
			For >250 To 500, Deduct	-7.47	
			For >500 To 1,000, Deduct	-11.77	
			For >1,000, Deduct	-16.07	
			For 316 Stainless Steel, Add	143.71	
			For Aluminum, Add	8.08	
			For Galvanized Steel, Add	27.84	
			For 304 Stainless Steel, Add	127.99	
05 12 23 00-0623	LF		MC18 x 58 - 18" Wide Channel.....	121.18	53.24
			For >100 To 250, Deduct	-5.32	
			For >250 To 500, Deduct	-8.35	
			For >500 To 1,000, Deduct	-13.16	
			For >1,000, Deduct	-17.96	
			For 316 Stainless Steel, Add	160.61	
			For Aluminum, Add	9.03	
			For Galvanized Steel, Add	31.12	
			For 304 Stainless Steel, Add	143.04	
05 12 23 00-0624 Structural Bar Tees (05 12 23 00-0438)					
05 12 23 00-0625	LF		3/4" x 3/4" x 1/8" Structural Bar Tee.....	3.95	2.45
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.34	
			For >500 To 1,000, Deduct	-0.52	
			For >1,000, Deduct	-0.70	
			For 316 Stainless Steel, Add	2.24	
			For Aluminum, Add	0.13	
			For Galvanized Steel, Add	0.43	
			For 304 Stainless Steel, Add	2.00	
05 12 23 00-0626	LF		1" x 1" x 1/8" Structural Bar Tee	4.79	2.88
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.41	
			For >500 To 1,000, Deduct	-0.62	
			For >1,000, Deduct	-0.84	
			For 316 Stainless Steel, Add	3.07	
			For Aluminum, Add	0.17	
			For Galvanized Steel, Add	0.60	
			For 304 Stainless Steel, Add	2.74	
05 12 23 00-0627	LF		1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	7.17	3.32
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.51	
			For >500 To 1,000, Deduct	-0.80	
			For >1,000, Deduct	-1.09	
			For 316 Stainless Steel, Add	8.77	
			For Aluminum, Add	0.49	
			For Galvanized Steel, Add	1.70	
			For 304 Stainless Steel, Add	7.81	
05 12 23 00-0628	LF		2" x 2" x 1/4" Structural Bar Tee	9.89	4.35
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.68	
			For >500 To 1,000, Deduct	-1.07	
			For >1,000, Deduct	-1.47	
			For 316 Stainless Steel, Add	13.09	
			For Aluminum, Add	0.74	
			For Galvanized Steel, Add	2.54	
			For 304 Stainless Steel, Add	11.66	
05 12 23 00-0629	LF		2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	14.34	5.24
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-0.88	
			For >500 To 1,000, Deduct	-1.42	
			For >1,000, Deduct	-1.95	
			For 316 Stainless Steel, Add	23.49	
			For Aluminum, Add	1.32	
			For Galvanized Steel, Add	4.55	
			For 304 Stainless Steel, Add	20.92	
05 12 23 00-0630	LF		3" x 3" x 3/8" Structural Bar Tee	17.77	6.71
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.12	
			For >500 To 1,000, Deduct	-1.78	
			For >1,000, Deduct	-2.45	
			For 316 Stainless Steel, Add	28.19	
			For Aluminum, Add	1.59	
			For Galvanized Steel, Add	5.46	
			For 304 Stainless Steel, Add	25.11	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0631			Structural Zees (05 12 23 00-0438)		
05 12 23 00-0632	LF		1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee	8.52	3.32
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.55	
			For >500 To 1,000, Deduct	-0.87	
			For >1,000, Deduct	-1.19	
			For 316 Stainless Steel, Add	13.09	
			For Aluminum, Add	0.74	
			For Galvanized Steel, Add	2.54	
			For 304 Stainless Steel, Add	11.66	
05 12 23 00-0633	LF		2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee.....	15.07	3.97
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.77	
			For >500 To 1,000, Deduct	-1.28	
			For >1,000, Deduct	-1.79	
			For 316 Stainless Steel, Add	31.33	
			For Aluminum, Add	1.76	
			For Galvanized Steel, Add	6.07	
			For 304 Stainless Steel, Add	27.90	
05 12 23 00-0634	LF		3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee.....	17.95	4.48
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.90	
			For >500 To 1,000, Deduct	-1.49	
			For >1,000, Deduct	-2.09	
			For 316 Stainless Steel, Add	38.34	
			For Aluminum, Add	2.16	
			For Galvanized Steel, Add	7.43	
			For 304 Stainless Steel, Add	34.14	
05 12 23 00-0635	LF		3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee.....	23.77	5.11
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-1.11	
			For >500 To 1,000, Deduct	-1.87	
			For >1,000, Deduct	-2.64	
			For 316 Stainless Steel, Add	54.24	
			For Aluminum, Add	3.05	
			For Galvanized Steel, Add	10.51	
			For 304 Stainless Steel, Add	48.31	
05 12 23 00-0636	LF		3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee.....	30.36	5.57
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.32	
			For >500 To 1,000, Deduct	-2.26	
			For >1,000, Deduct	-3.20	
			For 316 Stainless Steel, Add	73.41	
			For Aluminum, Add	4.13	
			For Galvanized Steel, Add	14.22	
			For 304 Stainless Steel, Add	65.38	
05 12 23 00-0637			Junior I-Beams (05 12 23 00-0438)		
05 12 23 00-0638	LF		3" Junior I-Beam, 2.9 LB/LF.....	11.79	4.80
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.77	
			For >500 To 1,000, Deduct	-1.23	
			For >1,000, Deduct	-1.68	
			For 316 Stainless Steel, Add	17.25	
			For Aluminum, Add	0.97	
			For Galvanized Steel, Add	3.34	
			For 304 Stainless Steel, Add	15.36	
05 12 23 00-0639	LF		4" Junior I-Beam, 3.2 LB/LF.....	12.95	5.24
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-0.85	
			For >500 To 1,000, Deduct	-1.35	
			For >1,000, Deduct	-1.85	
			For 316 Stainless Steel, Add	19.04	
			For Aluminum, Add	1.07	
			For Galvanized Steel, Add	3.69	
			For 304 Stainless Steel, Add	16.96	
05 12 23 00-0640	LF		5" Junior I-Beam, 3.8 LB/LF.....	14.75	5.76
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.94	
			For >500 To 1,000, Deduct	-1.51	
			For >1,000, Deduct	-2.07	
			For 316 Stainless Steel, Add	22.62	
			For Aluminum, Add	1.27	
			For Galvanized Steel, Add	4.38	
			For 304 Stainless Steel, Add	20.15	
05 12 23 00-0641	LF		6" Junior I-Beam, 4.4 LB/LF.....	16.54	6.27
			For >100 To 250, Deduct	-0.63	
			For >250 To 500, Deduct	-1.04	
			For >500 To 1,000, Deduct	-1.66	
			For >1,000, Deduct	-2.29	
			For 316 Stainless Steel, Add	26.18	
			For Aluminum, Add	1.47	
			For Galvanized Steel, Add	5.07	
			For 304 Stainless Steel, Add	23.31	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0642	LF		7" Junior I-Beam, 5.5 LB/LF.....	19.19	6.71
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.15	
			For >500 To 1,000, Deduct	-1.86	
			For >1,000, Deduct	-2.56	
			For 316 Stainless Steel, Add	32.74	
			For Aluminum, Add	1.84	
			For Galvanized Steel, Add	6.34	
			For 304 Stainless Steel, Add	29.16	
05 12 23 00-0643	LF		8" Junior I-Beam, 6.5 LB/LF.....	21.64	7.17
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.26	
			For >500 To 1,000, Deduct	-2.04	
			For >1,000, Deduct	-2.82	
			For 316 Stainless Steel, Add	38.69	
			For Aluminum, Add	2.18	
			For Galvanized Steel, Add	7.50	
			For 304 Stainless Steel, Add	34.46	
05 12 23 00-0644	LF		10" Junior I-Beam, 9 LB/LF.....	27.65	8.19
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.51	
			For >500 To 1,000, Deduct	-2.47	
			For >1,000, Deduct	-3.44	
			For 316 Stainless Steel, Add	53.54	
			For Aluminum, Add	3.01	
			For Galvanized Steel, Add	10.37	
			For 304 Stainless Steel, Add	47.68	
05 12 23 00-0645	LF		12" Junior I-Beam, 11.8 LB/LF.....	34.90	9.72
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.84	
			For >500 To 1,000, Deduct	-3.04	
			For >1,000, Deduct	-4.24	
			For 316 Stainless Steel, Add	70.21	
			For Aluminum, Add	3.95	
			For Galvanized Steel, Add	13.60	
			For 304 Stainless Steel, Add	62.53	
05 12 23 00-0646 Round Stock (05 12 23 00-0438)					
05 12 23 00-0647	LF		1/4" Carbon Steel Rounds, ASTM A108.....	1.57	
			For 316 Stainless Steel, Add	2.27	
			For Aluminum, Add	0.13	
			For Galvanized Steel, Add	0.44	
			For 304 Stainless Steel, Add	2.02	
05 12 23 00-0648	LF		3/8" Carbon Steel Rounds, ASTM A108.....	2.37	
			For 316 Stainless Steel, Add	4.48	
			For Aluminum, Add	0.25	
			For Galvanized Steel, Add	0.87	
			For 304 Stainless Steel, Add	3.99	
05 12 23 00-0649	LF		1/2" Carbon Steel Rounds, ASTM A108.....	3.20	
			For 316 Stainless Steel, Add	6.82	
			For Aluminum, Add	0.38	
			For Galvanized Steel, Add	1.32	
			For 304 Stainless Steel, Add	6.07	
05 12 23 00-0650	LF		5/8" Carbon Steel Rounds, ASTM A108.....	4.74	
			For 316 Stainless Steel, Add	11.36	
			For Aluminum, Add	0.64	
			For Galvanized Steel, Add	2.20	
			For 304 Stainless Steel, Add	10.12	
05 12 23 00-0651	LF		3/4" Carbon Steel Rounds, ASTM A108.....	5.64	
			For 316 Stainless Steel, Add	13.50	
			For Aluminum, Add	0.76	
			For Galvanized Steel, Add	2.62	
			For 304 Stainless Steel, Add	12.03	
05 12 23 00-0652	LF		7/8" Carbon Steel Rounds, ASTM A108.....	6.57	
			For 316 Stainless Steel, Add	15.78	
			For Aluminum, Add	0.89	
			For Galvanized Steel, Add	3.06	
			For 304 Stainless Steel, Add	14.05	
05 12 23 00-0653	LF		1" Carbon Steel Rounds, ASTM A108.....	9.45	
			For 316 Stainless Steel, Add	24.03	
			For Aluminum, Add	1.35	
			For Galvanized Steel, Add	4.66	
			For 304 Stainless Steel, Add	21.40	
05 12 23 00-0654	LF		1-1/8" Carbon Steel Rounds, ASTM A108.....	11.49	
			For 316 Stainless Steel, Add	29.18	
			For Aluminum, Add	1.64	
			For Galvanized Steel, Add	5.65	
			For 304 Stainless Steel, Add	25.99	
05 12 23 00-0655	LF		1-1/4" Carbon Steel Rounds, ASTM A108.....	13.78	
			For 316 Stainless Steel, Add	34.34	
			For Aluminum, Add	1.93	
			For Galvanized Steel, Add	6.65	
			For 304 Stainless Steel, Add	30.58	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0656 LF 1-3/8" Carbon Steel Rounds, ASTM A108.....	16.65	
For 316 Stainless Steel, Add	41.92	
For Aluminum, Add	2.36	
For Galvanized Steel, Add	8.12	
For 304 Stainless Steel, Add	37.34	
05 12 23 00-0657 LF 1-1/2" Carbon Steel Rounds, ASTM A108.....	18.64	
For 316 Stainless Steel, Add	45.98	
For Aluminum, Add	2.59	
For Galvanized Steel, Add	8.91	
For 304 Stainless Steel, Add	40.95	
05 12 23 00-0658 LF 1-5/8" Carbon Steel Rounds, ASTM A108.....	21.61	
For 316 Stainless Steel, Add	52.10	
For Aluminum, Add	2.93	
For Galvanized Steel, Add	10.09	
For 304 Stainless Steel, Add	46.40	
05 12 23 00-0659 LF 1-3/4" Carbon Steel Rounds, ASTM A108.....	26.06	
For 316 Stainless Steel, Add	60.64	
For Aluminum, Add	3.41	
For Galvanized Steel, Add	11.75	
For 304 Stainless Steel, Add	54.01	
05 12 23 00-0660 LF 1-7/8" Carbon Steel Rounds, ASTM A108.....	31.58	
For 316 Stainless Steel, Add	71.04	
For Aluminum, Add	4.00	
For Galvanized Steel, Add	13.76	
For 304 Stainless Steel, Add	63.27	
05 12 23 00-0661 LF 2" Carbon Steel Rounds, ASTM A108.....	36.28	
For 316 Stainless Steel, Add	79.01	
For Aluminum, Add	4.44	
For Galvanized Steel, Add	15.31	
For 304 Stainless Steel, Add	70.37	
05 12 23 00-0662 LF 2-1/8" Carbon Steel Rounds, ASTM A108.....	42.59	
For 316 Stainless Steel, Add	90.24	
For Aluminum, Add	5.08	
For Galvanized Steel, Add	17.48	
For 304 Stainless Steel, Add	80.37	
05 12 23 00-0663 LF 2-1/4" Carbon Steel Rounds, ASTM A108.....	48.25	
For 316 Stainless Steel, Add	101.44	
For Aluminum, Add	5.71	
For Galvanized Steel, Add	19.65	
For 304 Stainless Steel, Add	90.35	
05 12 23 00-0664 LF 2-3/8" Carbon Steel Rounds, ASTM A108.....	55.29	
For 316 Stainless Steel, Add	116.03	
For Aluminum, Add	6.53	
For Galvanized Steel, Add	22.48	
For 304 Stainless Steel, Add	103.34	
05 12 23 00-0665 LF 2-1/2" Carbon Steel Rounds, ASTM A108.....	61.43	
For 316 Stainless Steel, Add	125.06	
For Aluminum, Add	7.03	
For Galvanized Steel, Add	24.23	
For 304 Stainless Steel, Add	111.38	
05 12 23 00-0666 LF 2-5/8" Carbon Steel Rounds, ASTM A108.....	74.46	
For 316 Stainless Steel, Add	158.85	
For Aluminum, Add	8.94	
For Galvanized Steel, Add	30.78	
For 304 Stainless Steel, Add	141.47	
05 12 23 00-0667 LF 2-3/4" Carbon Steel Rounds, ASTM A108.....	84.74	
For 316 Stainless Steel, Add	181.15	
For Aluminum, Add	10.19	
For Galvanized Steel, Add	35.10	
For 304 Stainless Steel, Add	161.34	
05 12 23 00-0668 LF 2-7/8 Carbon Steel Rounds, ASTM A108.....	94.53	
For 316 Stainless Steel, Add	201.86	
For Aluminum, Add	11.35	
For Galvanized Steel, Add	39.11	
For 304 Stainless Steel, Add	179.78	
05 12 23 00-0669 LF 3" Carbon Steel Rounds, ASTM A108.....	99.74	
For 316 Stainless Steel, Add	207.94	
For Aluminum, Add	11.70	
For Galvanized Steel, Add	40.29	
For 304 Stainless Steel, Add	185.19	
05 12 23 00-0670 LF 3-1/8" Carbon Steel Rounds, ASTM A108.....	104.49	
For 316 Stainless Steel, Add	212.54	
For Aluminum, Add	11.96	
For Galvanized Steel, Add	41.18	
For 304 Stainless Steel, Add	189.30	
05 12 23 00-0671 LF 3-1/4" Carbon Steel Rounds, ASTM A108.....	110.50	
For 316 Stainless Steel, Add	221.22	
For Aluminum, Add	12.44	
For Galvanized Steel, Add	42.86	
For 304 Stainless Steel, Add	197.02	
05 12 23 00-0672 LF 3-1/2" Carbon Steel Rounds, ASTM A108.....	133.22	
For 316 Stainless Steel, Add	280.67	
For Aluminum, Add	15.79	
For Galvanized Steel, Add	54.38	
For 304 Stainless Steel, Add	249.97	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0673 LF 3-5/8" Carbon Steel Rounds, ASTM A108	147.77	
For 316 Stainless Steel, Add	313.98	
For Aluminum, Add	17.66	
For Galvanized Steel, Add	60.83	
For 304 Stainless Steel, Add	279.64	
05 12 23 00-0674 LF 3-3/4" Carbon Steel Rounds, ASTM A108	158.75	
For 316 Stainless Steel, Add	335.87	
For Aluminum, Add	18.89	
For Galvanized Steel, Add	65.08	
For 304 Stainless Steel, Add	299.14	
05 12 23 00-0675 LF 4" Carbon Steel Rounds, ASTM A108	177.43	
For 316 Stainless Steel, Add	382.40	
For Aluminum, Add	21.51	
For Galvanized Steel, Add	74.09	
For 304 Stainless Steel, Add	340.58	
05 12 23 00-0676 Square Stock (05 12 23 00-0438)		
05 12 23 00-0677 LF 3/8" Square Bar Stock	1.38	
For 316 Stainless Steel, Add	1.31	
For Aluminum, Add	0.07	
For Galvanized Steel, Add	0.25	
For 304 Stainless Steel, Add	1.17	
05 12 23 00-0678 LF 1/2" Square Bar Stock	1.80	
For 316 Stainless Steel, Add	2.34	
For Aluminum, Add	0.13	
For Galvanized Steel, Add	0.45	
For 304 Stainless Steel, Add	2.08	
05 12 23 00-0679 LF 5/8" Square Bar Stock	2.33	
For 316 Stainless Steel, Add	3.65	
For Aluminum, Add	0.21	
For Galvanized Steel, Add	0.71	
For 304 Stainless Steel, Add	3.25	
05 12 23 00-0680 LF 3/4" Square Bar Stock	3.07	
For 316 Stainless Steel, Add	5.28	
For Aluminum, Add	0.30	
For Galvanized Steel, Add	1.02	
For 304 Stainless Steel, Add	4.70	
05 12 23 00-0681 LF 7/8" Square Bar Stock	3.94	
For 316 Stainless Steel, Add	7.36	
For Aluminum, Add	0.41	
For Galvanized Steel, Add	1.43	
For 304 Stainless Steel, Add	6.56	
05 12 23 00-0682 LF 1" Square Bar Stock	4.88	
For 316 Stainless Steel, Add	9.41	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.82	
For 304 Stainless Steel, Add	8.38	
05 12 23 00-0683 LF 1-1/4" Square Bar Stock	7.63	
For 316 Stainless Steel, Add	14.66	
For Aluminum, Add	0.82	
For Galvanized Steel, Add	2.84	
For 304 Stainless Steel, Add	13.05	
05 12 23 00-0684 LF 1-1/2" Square Bar Stock	10.87	
For 316 Stainless Steel, Add	21.12	
For Aluminum, Add	1.19	
For Galvanized Steel, Add	4.09	
For 304 Stainless Steel, Add	18.81	
05 12 23 00-0685 LF 1-3/4" Square Bar Stock	16.29	
For 316 Stainless Steel, Add	29.38	
For Aluminum, Add	1.65	
For Galvanized Steel, Add	5.69	
For 304 Stainless Steel, Add	26.16	
05 12 23 00-0686 LF 2" Square Bar Stock	23.68	
For 316 Stainless Steel, Add	37.57	
For Aluminum, Add	2.11	
For Galvanized Steel, Add	7.28	
For 304 Stainless Steel, Add	33.46	
05 12 23 00-0687 Steel Tubing (05 12 23 00-0438)		
Note: General purpose low-carbon steel.		
05 12 23 00-0688 Square Steel Tubing (05 12 23 00-0687)		
05 12 23 00-0689 0.06" Wall Thickness (05 12 23 00-0688)		
05 12 23 00-0690 LF 1/2" x 1/2" x 0.06" Square Steel Tubing	1.69	0.46
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.09	
For >500 To 1,000, Deduct	-0.15	
For >1,000, Deduct	-0.20	
For 316 Stainless Steel, Add	3.46	
For Aluminum, Add	0.19	
For Galvanized Steel, Add	0.67	
For 304 Stainless Steel, Add	3.08	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0691	LF		3/4" x 3/4" x 0.06" Square Steel Tubing.....	2.61	0.72
			For >100 To 250, Deduct	-0.07	
			For >250 To 500, Deduct	-0.14	
			For >500 To 1,000, Deduct	-0.23	
			For >1,000, Deduct	-0.32	
			For 316 Stainless Steel, Add	5.25	
			For Aluminum, Add	0.30	
			For Galvanized Steel, Add	1.02	
			For 304 Stainless Steel, Add	4.67	
05 12 23 00-0692	LF		1" x 1" x 0.06" Square Steel Tubing.....	3.51	1.31
			For >100 To 250, Deduct	-0.10	
			For >250 To 500, Deduct	-0.19	
			For >500 To 1,000, Deduct	-0.31	
			For >1,000, Deduct	-0.43	
			For 316 Stainless Steel, Add	7.04	
			For Aluminum, Add	0.40	
			For Galvanized Steel, Add	1.36	
			For 304 Stainless Steel, Add	6.27	
05 12 23 00-0693	LF		1-1/4" x 1-1/4" x 0.06" Square Steel Tubing	4.62	1.25
			For >100 To 250, Deduct	-0.12	
			For >250 To 500, Deduct	-0.24	
			For >500 To 1,000, Deduct	-0.40	
			For >1,000, Deduct	-0.55	
			For 316 Stainless Steel, Add	9.47	
			For Aluminum, Add	0.53	
			For Galvanized Steel, Add	1.84	
			For 304 Stainless Steel, Add	8.44	
05 12 23 00-0694	LF		1-1/2" x 1-1/2" x 0.06" Square Steel Tubing	5.48	1.51
			For >100 To 250, Deduct	-0.15	
			For >250 To 500, Deduct	-0.29	
			For >500 To 1,000, Deduct	-0.47	
			For >1,000, Deduct	-0.66	
			For 316 Stainless Steel, Add	11.14	
			For Aluminum, Add	0.63	
			For Galvanized Steel, Add	2.16	
			For 304 Stainless Steel, Add	9.92	
05 12 23 00-0695			0.083" Wall Thickness (05 12 23 00-0688)		
05 12 23 00-0696	LF		3/4" x 3/4" x 0.083" Square Steel Tubing.....	3.04	0.85
			For >100 To 250, Deduct	-0.08	
			For >250 To 500, Deduct	-0.16	
			For >500 To 1,000, Deduct	-0.27	
			For >1,000, Deduct	-0.37	
			For 316 Stainless Steel, Add	6.11	
			For Aluminum, Add	0.34	
			For Galvanized Steel, Add	1.18	
			For 304 Stainless Steel, Add	5.44	
05 12 23 00-0697	LF		1" x 1" x 0.083" Square Steel Tubing.....	4.40	1.16
			For >100 To 250, Deduct	-0.12	
			For >250 To 500, Deduct	-0.23	
			For >500 To 1,000, Deduct	-0.38	
			For >1,000, Deduct	-0.52	
			For 316 Stainless Steel, Add	9.12	
			For Aluminum, Add	0.51	
			For Galvanized Steel, Add	1.77	
			For 304 Stainless Steel, Add	8.12	
05 12 23 00-0698	LF		1-1/4" x 1-1/4" x 0.083" Square Steel Tubing	5.33	1.48
			For >100 To 250, Deduct	-0.15	
			For >250 To 500, Deduct	-0.28	
			For >500 To 1,000, Deduct	-0.46	
			For >1,000, Deduct	-0.64	
			For 316 Stainless Steel, Add	10.78	
			For Aluminum, Add	0.61	
			For Galvanized Steel, Add	2.09	
			For 304 Stainless Steel, Add	9.60	
05 12 23 00-0699	LF		1-1/2" x 1-1/2" x 0.083" Square Steel Tubing	6.45	1.79
			For >100 To 250, Deduct	-0.18	
			For >250 To 500, Deduct	-0.34	
			For >500 To 1,000, Deduct	-0.56	
			For >1,000, Deduct	-0.78	
			For 316 Stainless Steel, Add	12.99	
			For Aluminum, Add	0.73	
			For Galvanized Steel, Add	2.52	
			For 304 Stainless Steel, Add	11.57	
05 12 23 00-0700	LF		2" x 2" x 0.083" Square Steel Tubing.....	8.29	2.39
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.45	
			For >500 To 1,000, Deduct	-0.73	
			For >1,000, Deduct	-1.02	
			For 316 Stainless Steel, Add	16.35	
			For Aluminum, Add	0.92	
			For Galvanized Steel, Add	3.17	
			For 304 Stainless Steel, Add	14.56	

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
05 12 23 00-0701		0.12" Wall Thickness	(05 12 23 00-0688)		
05 12 23 00-0702	LF	1" x 1" x 0.12" Square Steel Tubing.....	4.88	1.38	
		For >100 To 250, Deduct	-0.14		
		For >250 To 500, Deduct	-0.26		
		For >500 To 1,000, Deduct	-0.43		
		For >1,000, Deduct	-0.60		
		For 316 Stainless Steel, Add	9.73		
		For Aluminum, Add	0.55		
		For Galvanized Steel, Add	1.88		
		For 304 Stainless Steel, Add	8.66		
05 12 23 00-0703	LF	1-1/4" x 1-1/4" x 0.12" Square Steel Tubing.....	6.29	1.77	
		For >100 To 250, Deduct	-0.18		
		For >250 To 500, Deduct	-0.34		
		For >500 To 1,000, Deduct	-0.55		
		For >1,000, Deduct	-0.77		
		For 316 Stainless Steel, Add	12.54		
		For Aluminum, Add	0.71		
		For Galvanized Steel, Add	2.43		
		For 304 Stainless Steel, Add	11.17		
05 12 23 00-0704	LF	1-1/2" x 1-1/2" x 0.12" Square Steel Tubing.....	7.71	2.16	
		For >100 To 250, Deduct	-0.22		
		For >250 To 500, Deduct	-0.41		
		For >500 To 1,000, Deduct	-0.67		
		For >1,000, Deduct	-0.94		
		For 316 Stainless Steel, Add	15.42		
		For Aluminum, Add	0.87		
		For Galvanized Steel, Add	2.99		
		For 304 Stainless Steel, Add	13.74		
05 12 23 00-0705	LF	2" x 2" x 0.12" Square Steel Tubing.....	10.44	2.95	
		For >100 To 250, Deduct	-0.29		
		For >250 To 500, Deduct	-0.56		
		For >500 To 1,000, Deduct	-0.92		
		For >1,000, Deduct	-1.27		
		For 316 Stainless Steel, Add	20.83		
		For Aluminum, Add	1.17		
		For Galvanized Steel, Add	4.04		
		For 304 Stainless Steel, Add	18.55		
05 12 23 00-0706		1/8" Wall Thickness	(05 12 23 00-0688)		
05 12 23 00-0707	LF	2" x 2" x 1/8" Square Steel Tubing.....	9.52	3.06	
		For >100 To 250, Deduct	-0.31		
		For >250 To 500, Deduct	-0.54		
		For >500 To 1,000, Deduct	-0.89		
		For >1,000, Deduct	-1.23		
		For 316 Stainless Steel, Add	17.38		
		For Aluminum, Add	0.98		
		For Galvanized Steel, Add	3.37		
		For 304 Stainless Steel, Add	15.48		
05 12 23 00-0708	LF	2-1/2" x 2-1/2" x 1/8" Square Steel Tubing.....	12.50	3.88	
		For >100 To 250, Deduct	-0.39		
		For >250 To 500, Deduct	-0.70		
		For >500 To 1,000, Deduct	-1.14		
		For >1,000, Deduct	-1.58		
		For 316 Stainless Steel, Add	23.46		
		For Aluminum, Add	1.32		
		For Galvanized Steel, Add	4.54		
		For 304 Stainless Steel, Add	20.89		
05 12 23 00-0709	LF	3" x 3" x 1/8" Square Steel Tubing.....	14.69	4.69	
		For >100 To 250, Deduct	-0.47		
		For >250 To 500, Deduct	-0.84		
		For >500 To 1,000, Deduct	-1.36		
		For >1,000, Deduct	-1.88		
		For 316 Stainless Steel, Add	26.98		
		For Aluminum, Add	1.52		
		For Galvanized Steel, Add	5.23		
		For 304 Stainless Steel, Add	24.03		
05 12 23 00-0710	LF	3-1/2" x 3-1/2" x 1/8" Square Steel Tubing.....	17.04	5.52	
		For >100 To 250, Deduct	-0.55		
		For >250 To 500, Deduct	-0.98		
		For >500 To 1,000, Deduct	-1.59		
		For >1,000, Deduct	-2.20		
		For 316 Stainless Steel, Add	31.01		
		For Aluminum, Add	1.74		
		For Galvanized Steel, Add	6.01		
		For 304 Stainless Steel, Add	27.62		
05 12 23 00-0711	LF	4" x 4" x 1/8" Square Steel Tubing.....	18.85	6.33	
		For >100 To 250, Deduct	-0.63		
		For >250 To 500, Deduct	-1.10		
		For >500 To 1,000, Deduct	-1.79		
		For >1,000, Deduct	-2.47		
		For 316 Stainless Steel, Add	33.31		
		For Aluminum, Add	1.87		
		For Galvanized Steel, Add	6.45		
		For 304 Stainless Steel, Add	29.67		



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 12 23 00-0712 3/16" Wall Thickness (05 12 23 00-0688)				
05 12 23 00-0713	LF 2" x 2" x 3/16" Square Steel Tubing.....	10.79		3.45
	For >100 To 250, Deduct	-0.35		
	For >250 To 500, Deduct	-0.62		
	For >500 To 1,000, Deduct	-1.00		
	For >1,000, Deduct	-1.39		
	For 316 Stainless Steel, Add	19.78		
	For Aluminum, Add	1.11		
	For Galvanized Steel, Add	3.83		
	For 304 Stainless Steel, Add	17.61		
05 12 23 00-0714	LF 2-1/2" x 2-1/2" x 3/16" Square Steel Tubing	13.95		4.47
	For >100 To 250, Deduct	-0.45		
	For >250 To 500, Deduct	-0.80		
	For >500 To 1,000, Deduct	-1.29		
	For >1,000, Deduct	-1.79		
	For 316 Stainless Steel, Add	25.57		
	For Aluminum, Add	1.44		
	For Galvanized Steel, Add	4.95		
	For 304 Stainless Steel, Add	22.77		
05 12 23 00-0715	LF 3" x 3" x 3/16" Square Steel Tubing.....	17.15		5.50
	For >100 To 250, Deduct	-0.55		
	For >250 To 500, Deduct	-0.98		
	For >500 To 1,000, Deduct	-1.59		
	For >1,000, Deduct	-2.20		
	For 316 Stainless Steel, Add	31.42		
	For Aluminum, Add	1.77		
	For Galvanized Steel, Add	6.09		
	For 304 Stainless Steel, Add	27.99		
05 12 23 00-0716	LF 3-1/2" x 3-1/2" x 3/16" Square Steel Tubing	20.34		6.52
	For >100 To 250, Deduct	-0.65		
	For >250 To 500, Deduct	-1.16		
	For >500 To 1,000, Deduct	-1.89		
	For >1,000, Deduct	-2.61		
	For 316 Stainless Steel, Add	37.28		
	For Aluminum, Add	2.10		
	For Galvanized Steel, Add	7.22		
	For 304 Stainless Steel, Add	33.20		
05 12 23 00-0717	LF 4" x 4" x 3/16" Square Steel Tubing.....	23.52		7.53
	For >100 To 250, Deduct	-0.75		
	For >250 To 500, Deduct	-1.34		
	For >500 To 1,000, Deduct	-2.18		
	For >1,000, Deduct	-3.02		
	For 316 Stainless Steel, Add	43.10		
	For Aluminum, Add	2.42		
	For Galvanized Steel, Add	8.35		
	For 304 Stainless Steel, Add	38.39		
05 12 23 00-0718	LF 4-1/2" x 4-1/2" x 3/16" Square Steel Tubing	26.71		8.56
	For >100 To 250, Deduct	-0.86		
	For >250 To 500, Deduct	-1.52		
	For >500 To 1,000, Deduct	-2.48		
	For >1,000, Deduct	-3.43		
	For 316 Stainless Steel, Add	48.96		
	For Aluminum, Add	2.75		
	For Galvanized Steel, Add	9.49		
	For 304 Stainless Steel, Add	43.61		
05 12 23 00-0719	LF 5" x 5" x 3/16" Square Steel Tubing.....	29.87		9.57
	For >100 To 250, Deduct	-0.96		
	For >250 To 500, Deduct	-1.70		
	For >500 To 1,000, Deduct	-2.77		
	For >1,000, Deduct	-3.84		
	For 316 Stainless Steel, Add	54.75		
	For Aluminum, Add	3.08		
	For Galvanized Steel, Add	10.61		
	For 304 Stainless Steel, Add	48.76		
05 12 23 00-0720	LF 6" x 6" x 3/16" Square Steel Tubing.....	36.26		11.62
	For >100 To 250, Deduct	-1.16		
	For >250 To 500, Deduct	-2.07		
	For >500 To 1,000, Deduct	-3.36		
	For >1,000, Deduct	-4.66		
	For 316 Stainless Steel, Add	66.46		
	For Aluminum, Add	3.74		
	For Galvanized Steel, Add	12.88		
	For 304 Stainless Steel, Add	59.19		

05 12 23 00-0721 1/4" Wall Thickness (05 12 23 00-0688)

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0722	LF		2" x 2" x 1/4" Square Steel Tubing.....	11.44	3.46
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.63	
			For >500 To 1,000, Deduct	-1.03	
			For >1,000, Deduct	-1.43	
			For 316 Stainless Steel, Add	21.86	
			For Aluminum, Add	1.23	
			For Galvanized Steel, Add	4.23	
			For 304 Stainless Steel, Add	19.47	
05 12 23 00-0723	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing.....	15.04	4.55
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.83	
			For >500 To 1,000, Deduct	-1.36	
			For >1,000, Deduct	-1.89	
			For 316 Stainless Steel, Add	28.70	
			For Aluminum, Add	1.61	
			For Galvanized Steel, Add	5.56	
			For 304 Stainless Steel, Add	25.56	
05 12 23 00-0724	LF		3" x 3" x 1/4" Square Steel Tubing.....	18.64	5.64
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.03	
			For >500 To 1,000, Deduct	-1.68	
			For >1,000, Deduct	-2.34	
			For 316 Stainless Steel, Add	35.58	
			For Aluminum, Add	2.00	
			For Galvanized Steel, Add	6.89	
			For 304 Stainless Steel, Add	31.69	
05 12 23 00-0725	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing.....	22.23	6.72
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.23	
			For >500 To 1,000, Deduct	-2.01	
			For >1,000, Deduct	-2.79	
			For 316 Stainless Steel, Add	42.43	
			For Aluminum, Add	2.39	
			For Galvanized Steel, Add	8.22	
			For 304 Stainless Steel, Add	37.79	
05 12 23 00-0726	LF		4" x 4" x 1/4" Square Steel Tubing.....	25.83	7.81
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.43	
			For >500 To 1,000, Deduct	-2.33	
			For >1,000, Deduct	-3.24	
			For 316 Stainless Steel, Add	49.31	
			For Aluminum, Add	2.77	
			For Galvanized Steel, Add	9.55	
			For 304 Stainless Steel, Add	43.92	
05 12 23 00-0727	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing.....	29.42	8.90
			For >100 To 250, Deduct	-0.89	
			For >250 To 500, Deduct	-1.63	
			For >500 To 1,000, Deduct	-2.66	
			For >1,000, Deduct	-3.69	
			For 316 Stainless Steel, Add	56.16	
			For Aluminum, Add	3.16	
			For Galvanized Steel, Add	10.88	
			For 304 Stainless Steel, Add	50.02	
05 12 23 00-0728	LF		5" x 5" x 1/4" Square Steel Tubing.....	33.04	10.00
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-1.83	
			For >500 To 1,000, Deduct	-2.99	
			For >1,000, Deduct	-4.14	
			For 316 Stainless Steel, Add	63.07	
			For Aluminum, Add	3.55	
			For Galvanized Steel, Add	12.22	
			For 304 Stainless Steel, Add	56.17	
05 12 23 00-0729	LF		6" x 6" x 1/4" Square Steel Tubing.....	40.23	12.17
			For >100 To 250, Deduct	-1.22	
			For >250 To 500, Deduct	-2.22	
			For >500 To 1,000, Deduct	-3.63	
			For >1,000, Deduct	-5.05	
			For 316 Stainless Steel, Add	76.80	
			For Aluminum, Add	4.32	
			For Galvanized Steel, Add	14.88	
			For 304 Stainless Steel, Add	68.40	
05 12 23 00-0730			Rectangular Steel Tubing (05 12 23 00-0687)		
05 12 23 00-0731			3/16" Wall Thickness (05 12 23 00-0730)		
05 12 23 00-0732	LF		3" x 2" x 3/16" Square Steel Tubing.....	13.95	4.47
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.80	
			For >500 To 1,000, Deduct	-1.29	
			For >1,000, Deduct	-1.79	
			For 316 Stainless Steel, Add	25.57	
			For Aluminum, Add	1.44	
			For Galvanized Steel, Add	4.95	
			For 304 Stainless Steel, Add	22.77	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0733	LF		4" x 2" x 3/16" Square Steel Tubing.....	17.15	5.50
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.98	
			For >500 To 1,000, Deduct	-1.59	
			For >1,000, Deduct	-2.20	
			For 316 Stainless Steel, Add	31.42	
			For Aluminum, Add	1.77	
			For Galvanized Steel, Add	6.09	
			For 304 Stainless Steel, Add	27.99	
05 12 23 00-0734	LF		4" x 3" x 3/16" Square Steel Tubing.....	20.34	6.52
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.16	
			For >500 To 1,000, Deduct	-1.89	
			For >1,000, Deduct	-2.61	
			For 316 Stainless Steel, Add	37.28	
			For Aluminum, Add	2.10	
			For Galvanized Steel, Add	7.22	
			For 304 Stainless Steel, Add	33.20	
05 12 23 00-0735	LF		5" x 2" x 3/16" Square Steel Tubing.....	20.34	6.52
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.16	
			For >500 To 1,000, Deduct	-1.89	
			For >1,000, Deduct	-2.61	
			For 316 Stainless Steel, Add	37.28	
			For Aluminum, Add	2.10	
			For Galvanized Steel, Add	7.22	
			For 304 Stainless Steel, Add	33.20	
05 12 23 00-0736	LF		5" x 3" x 3/16" Square Steel Tubing.....	23.52	7.53
			For >100 To 250, Deduct	-0.75	
			For >250 To 500, Deduct	-1.34	
			For >500 To 1,000, Deduct	-2.18	
			For >1,000, Deduct	-3.02	
			For 316 Stainless Steel, Add	43.10	
			For Aluminum, Add	2.42	
			For Galvanized Steel, Add	8.35	
			For 304 Stainless Steel, Add	38.39	
05 12 23 00-0737	LF		5" x 4" x 3/16" Square Steel Tubing.....	26.71	8.56
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.52	
			For >500 To 1,000, Deduct	-2.48	
			For >1,000, Deduct	-3.43	
			For 316 Stainless Steel, Add	48.96	
			For Aluminum, Add	2.75	
			For Galvanized Steel, Add	9.49	
			For 304 Stainless Steel, Add	43.61	
05 12 23 00-0738	LF		6" x 2" x 3/16" Square Steel Tubing.....	23.52	7.53
			For >100 To 250, Deduct	-0.75	
			For >250 To 500, Deduct	-1.34	
			For >500 To 1,000, Deduct	-2.18	
			For >1,000, Deduct	-3.02	
			For 316 Stainless Steel, Add	43.10	
			For Aluminum, Add	2.42	
			For Galvanized Steel, Add	8.35	
			For 304 Stainless Steel, Add	38.39	
05 12 23 00-0739	LF		6" x 3" x 3/16" Square Steel Tubing.....	26.71	8.56
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.52	
			For >500 To 1,000, Deduct	-2.48	
			For >1,000, Deduct	-3.43	
			For 316 Stainless Steel, Add	48.96	
			For Aluminum, Add	2.75	
			For Galvanized Steel, Add	9.49	
			For 304 Stainless Steel, Add	43.61	
05 12 23 00-0740	LF		6" x 4" x 3/16" Square Steel Tubing.....	29.87	9.57
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.70	
			For >500 To 1,000, Deduct	-2.77	
			For >1,000, Deduct	-3.84	
			For 316 Stainless Steel, Add	54.75	
			For Aluminum, Add	3.08	
			For Galvanized Steel, Add	10.61	
			For 304 Stainless Steel, Add	48.76	
05 12 23 00-0741			1/4" Wall Thickness (05 12 23 00-0730)		
05 12 23 00-0742	LF		3" x 2" x 1/4" Square Steel Tubing.....	15.04	4.55
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.83	
			For >500 To 1,000, Deduct	-1.36	
			For >1,000, Deduct	-1.89	
			For 316 Stainless Steel, Add	28.70	
			For Aluminum, Add	1.61	
			For Galvanized Steel, Add	5.56	
			For 304 Stainless Steel, Add	25.56	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0743	LF		4" x 2" x 1/4" Square Steel Tubing	18.64	5.64
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.03	
			For >500 To 1,000, Deduct	-1.68	
			For >1,000, Deduct	-2.34	
			For 316 Stainless Steel, Add	35.58	
			For Aluminum, Add	2.00	
			For Galvanized Steel, Add	6.89	
			For 304 Stainless Steel, Add	31.69	
05 12 23 00-0744	LF		4" x 3" x 1/4" Square Steel Tubing	22.23	6.72
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.23	
			For >500 To 1,000, Deduct	-2.01	
			For >1,000, Deduct	-2.79	
			For 316 Stainless Steel, Add	42.43	
			For Aluminum, Add	2.39	
			For Galvanized Steel, Add	8.22	
			For 304 Stainless Steel, Add	37.79	
05 12 23 00-0745	LF		5" x 2" x 1/4" Square Steel Tubing	22.23	6.72
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.23	
			For >500 To 1,000, Deduct	-2.01	
			For >1,000, Deduct	-2.79	
			For 316 Stainless Steel, Add	42.43	
			For Aluminum, Add	2.39	
			For Galvanized Steel, Add	8.22	
			For 304 Stainless Steel, Add	37.79	
05 12 23 00-0746	LF		5" x 3" x 1/4" Square Steel Tubing	25.83	7.81
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.43	
			For >500 To 1,000, Deduct	-2.33	
			For >1,000, Deduct	-3.24	
			For 316 Stainless Steel, Add	49.31	
			For Aluminum, Add	2.77	
			For Galvanized Steel, Add	9.55	
			For 304 Stainless Steel, Add	43.92	
05 12 23 00-0747	LF		5" x 4" x 1/4" Square Steel Tubing	29.42	8.90
			For >100 To 250, Deduct	-0.89	
			For >250 To 500, Deduct	-1.63	
			For >500 To 1,000, Deduct	-2.66	
			For >1,000, Deduct	-3.69	
			For 316 Stainless Steel, Add	56.16	
			For Aluminum, Add	3.16	
			For Galvanized Steel, Add	10.88	
			For 304 Stainless Steel, Add	50.02	
05 12 23 00-0748	LF		6" x 2" x 1/4" Square Steel Tubing	25.83	7.81
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.43	
			For >500 To 1,000, Deduct	-2.33	
			For >1,000, Deduct	-3.24	
			For 316 Stainless Steel, Add	49.31	
			For Aluminum, Add	2.77	
			For Galvanized Steel, Add	9.55	
			For 304 Stainless Steel, Add	43.92	
05 12 23 00-0749	LF		6" x 3" x 1/4" Square Steel Tubing	29.42	8.90
			For >100 To 250, Deduct	-0.89	
			For >250 To 500, Deduct	-1.63	
			For >500 To 1,000, Deduct	-2.66	
			For >1,000, Deduct	-3.69	
			For 316 Stainless Steel, Add	56.16	
			For Aluminum, Add	3.16	
			For Galvanized Steel, Add	10.88	
			For 304 Stainless Steel, Add	50.02	
05 12 23 00-0750	LF		6" x 4" x 1/4" Square Steel Tubing	33.04	10.00
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-1.83	
			For >500 To 1,000, Deduct	-2.99	
			For >1,000, Deduct	-4.14	
			For 316 Stainless Steel, Add	63.07	
			For Aluminum, Add	3.55	
			For Galvanized Steel, Add	12.22	
			For 304 Stainless Steel, Add	56.17	
05 12 23 00-0751			Round Steel Tubing (05 12 23 00-0687)		
05 12 23 00-0752			0.065" Wall Thickness (05 12 23 00-0751)		
05 12 23 00-0753	LF		1" Diameter x 0.065" Round Steel Tubing	3.03	0.83
			For >100 To 250, Deduct	-0.08	
			For >250 To 500, Deduct	-0.16	
			For >500 To 1,000, Deduct	-0.26	
			For >1,000, Deduct	-0.37	
			For 316 Stainless Steel, Add	6.14	
			For Aluminum, Add	0.35	
			For Galvanized Steel, Add	1.19	
			For 304 Stainless Steel, Add	5.47	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0754	LF		1-1/4" Diameter x 0.065" Round Steel Tubing	3.84	1.06
			For >100 To 250, Deduct	-0.11	
			For >250 To 500, Deduct	-0.20	
			For >500 To 1,000, Deduct	-0.33	
			For >1,000, Deduct	-0.46	
			For 316 Stainless Steel, Add	7.78	
			For Aluminum, Add	0.44	
			For Galvanized Steel, Add	1.51	
			For 304 Stainless Steel, Add	6.93	
05 12 23 00-0755	LF		1-1/2" Diameter x 0.065" Round Steel Tubing	4.64	1.28
			For >100 To 250, Deduct	-0.13	
			For >250 To 500, Deduct	-0.24	
			For >500 To 1,000, Deduct	-0.40	
			For >1,000, Deduct	-0.56	
			For 316 Stainless Steel, Add	9.41	
			For Aluminum, Add	0.53	
			For Galvanized Steel, Add	1.82	
			For 304 Stainless Steel, Add	8.38	
05 12 23 00-0756	LF		2" Diameter x 0.065" Round Steel Tubing	6.26	1.72
			For >100 To 250, Deduct	-0.17	
			For >250 To 500, Deduct	-0.33	
			For >500 To 1,000, Deduct	-0.54	
			For >1,000, Deduct	-0.76	
			For 316 Stainless Steel, Add	12.70	
			For Aluminum, Add	0.71	
			For Galvanized Steel, Add	2.46	
			For 304 Stainless Steel, Add	11.31	
05 12 23 00-0757	LF		2-1/2" Diameter x 0.065" Round Steel Tubing	7.88	2.16
			For >100 To 250, Deduct	-0.22	
			For >250 To 500, Deduct	-0.41	
			For >500 To 1,000, Deduct	-0.68	
			For >1,000, Deduct	-0.95	
			For 316 Stainless Steel, Add	16.00	
			For Aluminum, Add	0.90	
			For Galvanized Steel, Add	3.10	
			For 304 Stainless Steel, Add	14.25	
05 12 23 00-0758	LF		3" Diameter x 0.065" Round Steel Tubing	9.49	2.61
			For >100 To 250, Deduct	-0.26	
			For >250 To 500, Deduct	-0.50	
			For >500 To 1,000, Deduct	-0.82	
			For >1,000, Deduct	-1.15	
			For 316 Stainless Steel, Add	19.26	
			For Aluminum, Add	1.08	
			For Galvanized Steel, Add	3.73	
			For 304 Stainless Steel, Add	17.16	
05 12 23 00-0759	LF		3-1/2" Diameter x 0.065" Round Steel Tubing	11.12	3.05
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.58	
			For >500 To 1,000, Deduct	-0.96	
			For >1,000, Deduct	-1.34	
			For 316 Stainless Steel, Add	22.56	
			For Aluminum, Add	1.27	
			For Galvanized Steel, Add	4.37	
			For 304 Stainless Steel, Add	20.09	
05 12 23 00-0760	LF		4" Diameter x 0.065" Round Steel Tubing	12.74	3.49
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.67	
			For >500 To 1,000, Deduct	-1.10	
			For >1,000, Deduct	-1.54	
			For 316 Stainless Steel, Add	25.86	
			For Aluminum, Add	1.45	
			For Galvanized Steel, Add	5.01	
			For 304 Stainless Steel, Add	23.03	
05 12 23 00-0761			0.083" Wall Thickness (05 12 23 00-0751)		
05 12 23 00-0762	LF		1" Diameter x 0.083" Round Steel Tubing	3.30	0.91
			For >100 To 250, Deduct	-0.09	
			For >250 To 500, Deduct	-0.17	
			For >500 To 1,000, Deduct	-0.29	
			For >1,000, Deduct	-0.40	
			For 316 Stainless Steel, Add	6.66	
			For Aluminum, Add	0.37	
			For Galvanized Steel, Add	1.29	
			For 304 Stainless Steel, Add	5.93	
05 12 23 00-0763	LF		1-1/4" Diameter x 0.083" Round Steel Tubing	4.18	1.16
			For >100 To 250, Deduct	-0.12	
			For >250 To 500, Deduct	-0.22	
			For >500 To 1,000, Deduct	-0.36	
			For >1,000, Deduct	-0.51	
			For 316 Stainless Steel, Add	8.45	
			For Aluminum, Add	0.48	
			For Galvanized Steel, Add	1.64	
			For 304 Stainless Steel, Add	7.52	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0764 LF 1-1/2" Diameter x 0.083" Round Steel Tubing	5.08	1.41
For >100 To 250, Deduct	-0.14	
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.44	
For >1,000, Deduct	-0.61	
For 316 Stainless Steel, Add	10.27	
For Aluminum, Add	0.58	
For Galvanized Steel, Add	1.99	
For 304 Stainless Steel, Add	9.15	
05 12 23 00-0765 LF 2" Diameter x 0.083" Round Steel Tubing	6.88	1.90
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-0.60	
For >1,000, Deduct	-0.83	
For 316 Stainless Steel, Add	13.89	
For Aluminum, Add	0.78	
For Galvanized Steel, Add	2.69	
For 304 Stainless Steel, Add	12.37	
05 12 23 00-0766 LF 2-1/2" Diameter x 0.083" Round Steel Tubing	8.67	2.40
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.46	
For >500 To 1,000, Deduct	-0.75	
For >1,000, Deduct	-1.05	
For 316 Stainless Steel, Add	17.50	
For Aluminum, Add	0.98	
For Galvanized Steel, Add	3.39	
For 304 Stainless Steel, Add	15.59	
05 12 23 00-0767 LF 3" Diameter x 0.083" Round Steel Tubing	10.47	2.90
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.55	
For >500 To 1,000, Deduct	-0.91	
For >1,000, Deduct	-1.27	
For 316 Stainless Steel, Add	21.12	
For Aluminum, Add	1.19	
For Galvanized Steel, Add	4.09	
For 304 Stainless Steel, Add	18.81	
05 12 23 00-0768 LF 3-1/2" Diameter x 0.083" Round Steel Tubing	12.25	3.39
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-1.06	
For >1,000, Deduct	-1.48	
For 316 Stainless Steel, Add	24.74	
For Aluminum, Add	1.39	
For Galvanized Steel, Add	4.79	
For 304 Stainless Steel, Add	22.03	
05 12 23 00-0769 LF 4" Diameter x 0.083" Round Steel Tubing	14.04	3.89
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.74	
For >500 To 1,000, Deduct	-1.22	
For >1,000, Deduct	-1.70	
For 316 Stainless Steel, Add	28.35	
For Aluminum, Add	1.59	
For Galvanized Steel, Add	5.49	
For 304 Stainless Steel, Add	25.25	
05 12 23 00-0770 0.125" Wall Thickness (05 12 23 00-0751)		
05 12 23 00-0771 LF 2" Diameter x 0.125" Round Steel Tubing	7.46	2.41
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.69	
For >1,000, Deduct	-0.96	
For 316 Stainless Steel, Add	13.63	
For Aluminum, Add	0.77	
For Galvanized Steel, Add	2.64	
For 304 Stainless Steel, Add	12.14	
05 12 23 00-0772 LF 2-1/2" Diameter x 0.125" Round Steel Tubing	9.45	3.04
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.54	
For >500 To 1,000, Deduct	-0.88	
For >1,000, Deduct	-1.22	
For 316 Stainless Steel, Add	17.25	
For Aluminum, Add	0.97	
For Galvanized Steel, Add	3.34	
For 304 Stainless Steel, Add	15.36	
05 12 23 00-0773 LF 3" Diameter x 0.125" Round Steel Tubing	11.44	3.68
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-1.06	
For >1,000, Deduct	-1.47	
For 316 Stainless Steel, Add	20.90	
For Aluminum, Add	1.18	
For Galvanized Steel, Add	4.05	
For 304 Stainless Steel, Add	18.61	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0774	LF		3-1/2" Diameter x 0.125" Round Steel Tubing	13.43	4.33
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.77	
			For >500 To 1,000, Deduct	-1.25	
			For >1,000, Deduct	-1.73	
			For 316 Stainless Steel, Add	24.51	
			For Aluminum, Add	1.38	
			For Galvanized Steel, Add	4.75	
			For 304 Stainless Steel, Add	21.83	
05 12 23 00-0775	LF		4" Diameter x 0.125" Round Steel Tubing	15.42	4.96
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.88	
			For >500 To 1,000, Deduct	-1.43	
			For >1,000, Deduct	-1.98	
			For 316 Stainless Steel, Add	28.16	
			For Aluminum, Add	1.58	
			For Galvanized Steel, Add	5.46	
			For 304 Stainless Steel, Add	25.08	
05 12 23 00-0776			Flat Steel Bar (05 12 23 00-0438)		
05 12 23 00-0777			1/8" Thick (05 12 23 00-0776)		
05 12 23 00-0778	LF		1/8" Thick x 1" Wide Flat Steel Bar	2.37	1.20
			For 316 Stainless Steel, Add	1.86	
			For Aluminum, Add	0.10	
			For Galvanized Steel, Add	0.36	
			For 304 Stainless Steel, Add	1.65	
05 12 23 00-0779	LF		1/8" Thick x 2" Wide Flat Steel Bar	3.65	1.79
			For 316 Stainless Steel, Add	3.07	
			For Aluminum, Add	0.17	
			For Galvanized Steel, Add	0.60	
			For 304 Stainless Steel, Add	2.74	
05 12 23 00-0780	LF		1/8" Thick x 4" Wide Flat Steel Bar	5.53	2.53
			For 316 Stainless Steel, Add	5.60	
			For Aluminum, Add	0.32	
			For Galvanized Steel, Add	1.09	
			For 304 Stainless Steel, Add	4.99	
05 12 23 00-0781	LF		1/8" Thick x 6" Wide Flat Steel Bar	7.50	3.43
			For 316 Stainless Steel, Add	7.55	
			For Aluminum, Add	0.42	
			For Galvanized Steel, Add	1.46	
			For 304 Stainless Steel, Add	6.73	
05 12 23 00-0782			3/16" Thick (05 12 23 00-0776)		
05 12 23 00-0783	LF		3/16" Thick x 1" Wide Flat Steel Bar	3.10	1.48
			For 316 Stainless Steel, Add	2.82	
			For Aluminum, Add	0.16	
			For Galvanized Steel, Add	0.55	
			For 304 Stainless Steel, Add	2.51	
05 12 23 00-0784	LF		3/16" Thick x 2" Wide Flat Steel Bar	4.86	2.22
			For 316 Stainless Steel, Add	4.86	
			For Aluminum, Add	0.27	
			For Galvanized Steel, Add	0.94	
			For 304 Stainless Steel, Add	4.33	
05 12 23 00-0785	LF		3/16" Thick x 4" Wide Flat Steel Bar	6.39	2.56
			For 316 Stainless Steel, Add	8.19	
			For Aluminum, Add	0.46	
			For Galvanized Steel, Add	1.59	
			For 304 Stainless Steel, Add	7.30	
05 12 23 00-0786	LF		3/16" Thick x 6" Wide Flat Steel Bar	8.86	3.55
			For 316 Stainless Steel, Add	11.33	
			For Aluminum, Add	0.64	
			For Galvanized Steel, Add	2.19	
			For 304 Stainless Steel, Add	10.09	
05 12 23 00-0787			1/4" Thick (05 12 23 00-0776)		
05 12 23 00-0788	LF		1/4" Thick x 1" Wide Flat Steel Bar	3.23	1.57
			For 316 Stainless Steel, Add	2.78	
			For Aluminum, Add	0.16	
			For Galvanized Steel, Add	0.54	
			For 304 Stainless Steel, Add	2.48	
05 12 23 00-0789	LF		1/4" Thick x 2" Wide Flat Steel Bar	5.29	2.36
			For 316 Stainless Steel, Add	5.63	
			For Aluminum, Add	0.32	
			For Galvanized Steel, Add	1.09	
			For 304 Stainless Steel, Add	5.02	
05 12 23 00-0790	LF		1/4" Thick x 4" Wide Flat Steel Bar	7.44	2.69
			For 316 Stainless Steel, Add	10.88	
			For Aluminum, Add	0.61	
			For Galvanized Steel, Add	2.11	
			For 304 Stainless Steel, Add	9.69	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0791	LF	1/4" Thick x 6" Wide Flat Steel Bar	10.79	3.98
		For 316 Stainless Steel, Add	15.42	
		For Aluminum, Add	0.87	
		For Galvanized Steel, Add	2.99	
		For 304 Stainless Steel, Add	13.74	
05 12 23 00-0792 3/8" Thick (05 12 23 00-0776)				
05 12 23 00-0793	LF	3/8" Thick x 1" Wide Flat Steel Bar	4.02	1.76
		For 316 Stainless Steel, Add	4.35	
		For Aluminum, Add	0.24	
		For Galvanized Steel, Add	0.84	
		For 304 Stainless Steel, Add	3.88	
05 12 23 00-0794	LF	3/8" Thick x 2" Wide Flat Steel Bar	6.49	2.65
		For 316 Stainless Steel, Add	8.03	
		For Aluminum, Add	0.45	
		For Galvanized Steel, Add	1.56	
		For 304 Stainless Steel, Add	7.15	
05 12 23 00-0795	LF	3/8" Thick x 4" Wide Flat Steel Bar	9.57	3.02
		For 316 Stainless Steel, Add	16.10	
		For Aluminum, Add	0.91	
		For Galvanized Steel, Add	3.12	
		For 304 Stainless Steel, Add	14.34	
05 12 23 00-0796	LF	3/8" Thick x 6" Wide Flat Steel Bar	13.80	4.47
		For 316 Stainless Steel, Add	22.66	
		For Aluminum, Add	1.27	
		For Galvanized Steel, Add	4.39	
		For 304 Stainless Steel, Add	20.18	
05 12 23 00-0797 1/2" Thick (05 12 23 00-0776)				
05 12 23 00-0798	LF	1/2" Thick x 1" Wide Flat Steel Bar	4.67	1.93
		For 316 Stainless Steel, Add	5.60	
		For Aluminum, Add	0.32	
		For Galvanized Steel, Add	1.09	
		For 304 Stainless Steel, Add	4.99	
05 12 23 00-0799	LF	1/2" Thick x 2" Wide Flat Steel Bar	7.59	2.92
		For 316 Stainless Steel, Add	10.27	
		For Aluminum, Add	0.58	
		For Galvanized Steel, Add	1.99	
		For 304 Stainless Steel, Add	9.15	
05 12 23 00-0800	LF	1/2" Thick x 4" Wide Flat Steel Bar	10.46	3.32
		For 316 Stainless Steel, Add	17.50	
		For Aluminum, Add	0.98	
		For Galvanized Steel, Add	3.39	
		For 304 Stainless Steel, Add	15.59	
05 12 23 00-0801	LF	1/2" Thick x 6" Wide Flat Steel Bar	18.30	4.92
		For 316 Stainless Steel, Add	34.91	
		For Aluminum, Add	1.96	
		For Galvanized Steel, Add	6.76	
		For 304 Stainless Steel, Add	31.09	
05 12 23 00-0802 Flat Steel Plate (05 12 23 00-0438)				
05 12 23 00-0803	SF	1/8" Thick Flat Steel Plate.....	11.84	5.14
		For 316 Stainless Steel, Add	13.18	
		For Aluminum, Add	0.74	
		For Galvanized Steel, Add	2.55	
		For 304 Stainless Steel, Add	11.74	
05 12 23 00-0804	SF	3/16" Thick Flat Steel Plate.....	13.14	5.32
		For 316 Stainless Steel, Add	16.48	
		For Aluminum, Add	0.93	
		For Galvanized Steel, Add	3.19	
		For 304 Stainless Steel, Add	14.68	
05 12 23 00-0805	SF	1/4" Thick Flat Steel Plate.....	15.53	5.96
		For 316 Stainless Steel, Add	21.02	
		For Aluminum, Add	1.18	
		For Galvanized Steel, Add	4.07	
		For 304 Stainless Steel, Add	18.72	
05 12 23 00-0806	SF	3/8" Thick Flat Steel Plate.....	20.39	6.71
		For 316 Stainless Steel, Add	32.99	
		For Aluminum, Add	1.86	
		For Galvanized Steel, Add	6.39	
		For 304 Stainless Steel, Add	29.38	
05 12 23 00-0807	SF	1/2" Thick Flat Steel Plate.....	23.92	7.38
		For 316 Stainless Steel, Add	41.09	
		For Aluminum, Add	2.31	
		For Galvanized Steel, Add	7.96	
		For 304 Stainless Steel, Add	36.59	
05 12 23 00-0808	SF	3/4" Thick Flat Steel Plate.....	37.93	9.14
		For 316 Stainless Steel, Add	77.06	
		For Aluminum, Add	4.33	
		For Galvanized Steel, Add	14.93	
		For 304 Stainless Steel, Add	68.63	



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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0809	SF	1" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	50.28 105.50 5.93 20.44 93.96	11.42
05 14 Structural Aluminum Framing (05 10)				
05 14 16 Structural Aluminum Framing (05 14)				
05 14 16 00-0001 Rolled Or Plate Shapes (05 14 16)				
Note: 1" through 10" member.				
05 14 16 00-0002	LB	Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members	5.05	0.67
05 14 16 00-0003	LB	Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members	4.48	0.62
05 14 16 00-0004 Aluminum Extrusions (05 14 16)				
05 14 16 00-0005	LB	Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	9.06	2.78
05 14 16 00-0006	LB	Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members	9.51	2.78
05 14 16 00-0007 Aluminum Tubing (05 14 16)				
05 14 16 00-0008	LB	Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	10.24	2.90
05 14 16 00-0009	LF	1" x 1" Aluminum Tubing, 1/8" Wall Thickness	11.74	4.69
05 14 16 00-0010	LF	1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	13.52	5.11
05 14 16 00-0011	LF	1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	15.64	5.97
05 14 16 00-0012	LF	2" x 2" Aluminum Tubing, 1/8" Wall Thickness	17.73	6.40
05 14 16 00-0013	LF	4" x 4" Aluminum Tubing, 1/4" Wall Thickness	38.95	8.10
05 14 16 00-0014	LF	2" x 5" Aluminum Tubing, 1/4" Wall Thickness	32.64	7.25
05 14 16 00-0015 Columns (05 14 16)				
Note: Baked on paint finish, load bearing.				
05 14 16 00-0016 Round Columns (05 14 16 00-0015)				
05 14 16 00-0017	LF	6" Diameter Aluminum Column	31.00	5.55
05 14 16 00-0018	LF	8" Diameter Aluminum Column	41.20	7.94
05 14 16 00-0019	LF	10" Diameter Aluminum Column	49.80	8.94
05 14 16 00-0020	LF	12" Diameter Aluminum Column	72.24	9.35
05 14 16 00-0021	LF	15" Diameter Aluminum Column	91.54	10.84
05 14 16 00-0022	EA	6" Diameter Aluminum Base And Cap	59.38	10.35
05 14 16 00-0023	EA	8" Diameter Aluminum Base And Cap	67.57	11.17
05 14 16 00-0024	EA	10" Diameter Aluminum Base And Cap	84.26	12.41
05 14 16 00-0025	EA	12" Diameter Aluminum Base And Cap	140.70	13.24
05 14 16 00-0026	EA	15" Diameter Aluminum Base And Cap	211.94	14.48
05 14 16 00-0027 Octagonal Columns (05 14 16 00-0015)				
05 14 16 00-0028	LF	6" Diameter Aluminum Column	33.79	5.55
05 14 16 00-0029	LF	8" Diameter Aluminum Column	46.26	7.94
05 14 16 00-0030	LF	10" Diameter Aluminum Column	56.19	8.94
05 14 16 00-0031	LF	12" Diameter Aluminum Column	82.97	9.35
05 14 16 00-0032	LF	15" Diameter Aluminum Column	105.53	10.84
05 14 16 00-0033	EA	6" Diameter Aluminum Base And Cap	67.12	10.35
05 14 16 00-0034	EA	8" Diameter Aluminum Base And Cap	76.62	11.17
05 14 16 00-0035	EA	10" Diameter Aluminum Base And Cap	96.15	12.41
05 14 16 00-0036	EA	12" Diameter Aluminum Base And Cap	163.54	13.24
05 14 16 00-0037	EA	15" Diameter Aluminum Base And Cap	248.54	14.48
05 14 16 00-0038 Fluted Columns (05 14 16 00-0015)				
05 14 16 00-0039	LF	6" Diameter Aluminum Column	37.21	5.55
05 14 16 00-0040	LF	8" Diameter Aluminum Column	50.81	7.94
05 14 16 00-0041	LF	10" Diameter Aluminum Column	61.94	8.94
05 14 16 00-0042	LF	12" Diameter Aluminum Column	92.62	9.35
05 14 16 00-0043	LF	15" Diameter Aluminum Column	118.11	10.84
05 14 16 00-0044	EA	6" Diameter Aluminum Base And Cap	74.09	10.35
05 14 16 00-0045	EA	8" Diameter Aluminum Base And Cap	84.76	11.17
05 14 16 00-0046	EA	10" Diameter Aluminum Base And Cap	106.85	12.41
05 14 16 00-0047	EA	12" Diameter Aluminum Base And Cap	184.10	13.24
05 14 16 00-0048	EA	15" Diameter Aluminum Base And Cap	281.48	14.48
05 14 16 00-0049 Square Columns (05 14 16 00-0015)				
05 14 16 00-0050	LF	6" Aluminum Column	39.55	5.55
05 14 16 00-0051	LF	8" Aluminum Column	53.93	7.94
05 14 16 00-0052	LF	10" Aluminum Column	65.87	8.94
05 14 16 00-0053	LF	12" Aluminum Column	99.22	9.35
05 14 16 00-0054	LF	15" Aluminum Column	126.72	10.84
05 14 16 00-0055	EA	6" Aluminum Base And Cap	78.85	10.35

05 Metals**05 10 Structural Metal Framing****05 14 Structural Aluminum Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 16 00-0056	EA	8" Aluminum Base And Cap.....	90.32	11.17
05 14 16 00-0057	EA	10" Aluminum Base And Cap.....	114.16	12.41
05 14 16 00-0058	EA	12" Aluminum Base And Cap.....	198.16	13.24
05 14 16 00-0059	EA	15" Aluminum Base And Cap.....	304.00	14.48
05 14 16 00-0060		Ornamental Or Decorative Cap And Bases (05 14 16 00-0015)		
05 14 16 00-0061	EA	8" Corinthian Capital And Base.....	418.76	12.41
05 14 16 00-0062	EA	10" Corinthian Capital And Base.....	613.97	14.48
05 14 16 00-0063	EA	12" Corinthian Capital And Base.....	967.44	16.55
05 14 16 00-0064	EA	8" Scamozzi Capital And Base.....	211.69	12.41
05 14 16 00-0065	EA	10" Scamozzi Capital And Base.....	282.33	14.48
05 14 16 00-0066	EA	12" Scamozzi Capital And Base.....	560.37	16.55
05 15		Wire Rope Assemblies (05 10)		
05 15 16		Steel Wire Rope Assemblies (05 15)		
05 15 16 00-0001		6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)		
05 15 16 00-0002	LF	1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.15	0.08
		For >500, Deduct.....	-0.20	
05 15 16 00-0003	LF	5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.55	0.08
		For >500, Deduct.....	-0.26	
05 15 16 00-0004	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.84	0.17
		For >500, Deduct.....	-0.30	
05 15 16 00-0005	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.21	0.17
		For >500, Deduct.....	-0.35	
05 15 16 00-0006	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.58	0.25
		For >500, Deduct.....	-0.40	
05 15 16 00-0007	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.17	0.34
		For >500, Deduct.....	-0.48	
05 15 16 00-0008	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.79	0.34
		For >500, Deduct.....	-0.57	
05 15 16 00-0009	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.25	0.59
		For >500, Deduct.....	-0.78	
05 15 16 00-0010	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.07	0.68
		For >500, Deduct.....	-1.05	
05 15 16 00-0011	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.81	0.94
		For >500, Deduct.....	-1.28	
05 15 16 00-0012	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.90	1.20
		For >500, Deduct.....	-1.58	
05 15 16 00-0013	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	13.27	1.45
		For >500, Deduct.....	-1.92	
05 15 16 00-0014		6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)		
05 15 16 00-0015	LF	1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.35	0.08
		For >500, Deduct.....	-0.24	
05 15 16 00-0016	LF	5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.75	0.08
		For >500, Deduct.....	-0.30	
05 15 16 00-0017	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.17	0.17
		For >500, Deduct.....	-0.37	
05 15 16 00-0018	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.46	0.17
		For >500, Deduct.....	-0.40	
05 15 16 00-0019	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.95	0.25
		For >500, Deduct.....	-0.47	
05 15 16 00-0020	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.41	0.34
		For >500, Deduct.....	-0.53	
05 15 16 00-0021	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.98	0.34
		For >500, Deduct.....	-0.61	



		Metals	05	05
		Structural Metal Framing	05 10	
		Wire Rope Assemblies	05 15	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0022	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.84	0.59
		For >500, Deduct	-0.90	
05 15 16 00-0023	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.51	0.68
		For >500, Deduct	-1.14	
05 15 16 00-0024	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.24	0.94
		For >500, Deduct	-1.37	
05 15 16 00-0025	LF	1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.84	1.20
		For >500, Deduct	-1.76	
05 15 16 00-0026	LF	1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	14.38	1.45
		For >500, Deduct	-2.15	
05 15 16 00-0027 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope				
		(05 15 16)		
05 15 16 00-0028	LF	1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.07	0.08
		For >500, Deduct	-0.18	
05 15 16 00-0029	LF	5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.46	0.08
		For >500, Deduct	-0.25	
05 15 16 00-0030	LF	3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.73	0.17
		For >500, Deduct	-0.28	
05 15 16 00-0031	LF	7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.03	0.17
		For >500, Deduct	-0.32	
05 15 16 00-0032	LF	1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.47	0.25
		For >500, Deduct	-0.38	
05 15 16 00-0033	LF	9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.12	0.34
		For >500, Deduct	-0.47	
05 15 16 00-0034	LF	5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.64	0.34
		For >500, Deduct	-0.54	
05 15 16 00-0035	LF	3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	5.11	0.59
		For >500, Deduct	-0.75	
05 15 16 00-0036	LF	7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	6.29	0.68
		For >500, Deduct	-0.89	
05 15 16 00-0037	LF	1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	8.00	0.94
		For >500, Deduct	-1.12	
05 15 16 00-0038 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope				
		(05 15 16)		
05 15 16 00-0039	LF	1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.06	0.08
		For >500, Deduct	-0.18	
05 15 16 00-0040	LF	5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.41	0.08
		For >500, Deduct	-0.24	
05 15 16 00-0041	LF	3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.73	0.17
		For >500, Deduct	-0.28	
05 15 16 00-0042	LF	7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.03	0.17
		For >500, Deduct	-0.32	
05 15 16 00-0043	LF	1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.57	0.25
		For >500, Deduct	-0.40	
05 15 16 00-0044	LF	9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.07	0.34
		For >500, Deduct	-0.46	
05 15 16 00-0045	LF	5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.84	0.34
		For >500, Deduct	-0.58	
05 15 16 00-0046	LF	3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.35	0.59
		For >500, Deduct	-0.80	
05 15 16 00-0047	LF	7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.02	0.68
		For >500, Deduct	-1.04	
05 15 16 00-0048	LF	1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.66	0.94
		For >500, Deduct	-1.26	
05 15 16 00-0049 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope				
		(05 15 16)		
05 15 16 00-0050	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.96	0.17
		For >500, Deduct	-0.33	
05 15 16 00-0051	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.29	0.17
		For >500, Deduct	-0.37	
05 15 16 00-0052	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.70	0.25
		For >500, Deduct	-0.42	
05 15 16 00-0053	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.64	0.34
		For >500, Deduct	-0.58	
05 15 16 00-0054	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.01	0.34
		For >500, Deduct	-0.62	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0055	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.47	0.59
		<i>For >500, Deduct</i>	-0.83	
05 15 16 00-0056	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.04	0.68
		<i>For >500, Deduct</i>	-1.04	
05 15 16 00-0057	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	9.28	0.94
		<i>For >500, Deduct</i>	-1.37	
05 15 16 00-0058	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	11.24	1.20
		<i>For >500, Deduct</i>	-1.65	
05 15 16 00-0059	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	13.56	1.45
		<i>For >500, Deduct</i>	-1.98	
05 15 16 00-0060 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope (05 15 16)				
05 15 16 00-0061	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.01	0.17
		<i>For >500, Deduct</i>	-0.34	
05 15 16 00-0062	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.42	0.17
		<i>For >500, Deduct</i>	-0.40	
05 15 16 00-0063	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.89	0.25
		<i>For >500, Deduct</i>	-0.46	
05 15 16 00-0064	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.03	0.34
		<i>For >500, Deduct</i>	-0.65	
05 15 16 00-0065	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.08	0.34
		<i>For >500, Deduct</i>	-0.63	
05 15 16 00-0066	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.60	0.59
		<i>For >500, Deduct</i>	-0.85	
05 15 16 00-0067	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.44	0.68
		<i>For >500, Deduct</i>	-1.12	
05 15 16 00-0068	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	9.41	0.94
		<i>For >500, Deduct</i>	-1.40	
05 15 16 00-0069 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope (05 15 16)				
05 15 16 00-0070	LF	1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	2.06	0.08
		<i>For >500, Deduct</i>	-0.38	
05 15 16 00-0071	LF	5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	2.23	0.08
		<i>For >500, Deduct</i>	-0.40	
05 15 16 00-0072	LF	3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	2.62	0.17
		<i>For >500, Deduct</i>	-0.46	
05 15 16 00-0073	LF	7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	3.52	0.17
		<i>For >500, Deduct</i>	-0.62	
05 15 16 00-0074	LF	1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	4.01	0.17
		<i>For >500, Deduct</i>	-0.71	
05 15 16 00-0075	LF	9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	4.67	0.34
		<i>For >500, Deduct</i>	-0.78	
05 15 16 00-0076	LF	5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	5.55	0.34
		<i>For >500, Deduct</i>	-0.93	
05 15 16 00-0077	LF	3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	7.64	0.51
		<i>For >500, Deduct</i>	-1.27	
05 15 16 00-0078 7x7, Galvanized Finish, Aircraft Cable (05 15 16)				
05 15 16 00-0079	LF	1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.24	0.06
		<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0080	LF	3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.27	0.07
		<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0081	LF	1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.31	0.08
		<i>For >500, Deduct</i>	-0.04	
05 15 16 00-0082	LF	5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.35	0.08
		<i>For >500, Deduct</i>	-0.04	
05 15 16 00-0083	LF	3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.43	0.08
		<i>For >500, Deduct</i>	-0.05	



	Metals	05	05
	Structural Metal Framing	05 10	
	Wire Rope Assemblies	05 15	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
05 15 16 00-0084 7x19, Galvanized Finish, Aircraft Cable (05 15 16)					
05 15 16 00-0085	LF 1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.42		0.08	
	For >500, Deduct	-0.06			
05 15 16 00-0086	LF 5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.46		0.08	
	For >500, Deduct	-0.07			
05 15 16 00-0087	LF 3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.53		0.08	
	For >500, Deduct	-0.07			
05 15 16 00-0088	LF 1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.62		0.08	
	For >500, Deduct	-0.09			
05 15 16 00-0089	LF 5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.94		0.08	
	For >500, Deduct	-0.14			
05 15 16 00-0090	LF 3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.26		0.08	
	For >500, Deduct	-0.19			
05 15 16 00-0091 Heavy Duty, Galvanized Steel, Wire Rope Thimbles (05 15 16)					
05 15 16 00-0092	EA 1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	9.77		2.56	
05 15 16 00-0093	EA 5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	10.53		2.56	
05 15 16 00-0094	EA 3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	11.38		2.56	
05 15 16 00-0095	EA 7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	13.71		2.56	
05 15 16 00-0096	EA 1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	13.72		2.56	
05 15 16 00-0097	EA 9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	13.72		2.56	
05 15 16 00-0098	EA 5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	14.51		2.56	
05 15 16 00-0099	EA 3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	25.35		3.93	
05 15 16 00-0100	EA 7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	30.19		4.78	
05 15 16 00-0101	EA 1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	52.60		7.85	
05 15 16 00-0102	EA 1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	74.48		10.66	
05 15 16 00-0103	EA 1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	74.48		10.66	
05 15 16 00-0104 Galvanized Steel, Wire Rope Clips (05 15 16)					
05 15 16 00-0105	EA 1/8" Diameter, Galvanized Steel, Wire Rope Clip	11.48		2.56	
05 15 16 00-0106	EA 3/16" Diameter, Galvanized Steel, Wire Rope Clip	11.66		2.56	
05 15 16 00-0107	EA 1/4" Diameter, Galvanized Steel, Wire Rope Clip	12.91		2.56	
05 15 16 00-0108	EA 5/16" Diameter, Galvanized Steel, Wire Rope Clip	13.10		2.56	
05 15 16 00-0109	EA 3/8" Diameter, Galvanized Steel, Wire Rope Clip	13.38		2.56	
05 15 16 00-0110	EA 7/16" Diameter, Galvanized Steel, Wire Rope Clip	16.06		2.56	
05 15 16 00-0111	EA 1/2" Diameter, Galvanized Steel, Wire Rope Clip	16.27		2.56	
05 15 16 00-0112	EA 9/16" Diameter, Galvanized Steel, Wire Rope Clip	18.29		2.56	
05 15 16 00-0113	EA 5/8" Diameter, Galvanized Steel, Wire Rope Clip	18.56		2.56	
05 15 16 00-0114	EA 3/4" Diameter, Galvanized Steel, Wire Rope Clip	25.83		3.41	
05 15 16 00-0115	EA 7/8" Diameter, Galvanized Steel, Wire Rope Clip	39.03		5.11	
05 15 16 00-0116	EA 1" Diameter, Galvanized Steel, Wire Rope Clip	42.39		5.11	
05 15 16 00-0117	EA 1-1/8" Diameter, Galvanized Steel, Wire Rope Clip	50.49		6.82	
05 15 16 00-0118	EA 1-1/4" Diameter, Galvanized Steel, Wire Rope Clip	73.47		10.24	
05 15 16 00-0119 Steel, Open Swage Sockets (05 15 16)					
05 15 16 00-0120	EA 1/4" Diameter, Steel, Open Swage Socket	42.23		2.56	
05 15 16 00-0121	EA 5/16" Diameter, Steel, Open Swage Socket	65.59		2.56	
05 15 16 00-0122	EA 3/8" Diameter, Steel, Open Swage Socket	68.97		3.41	
05 15 16 00-0123	EA 7/16" Diameter, Steel, Open Swage Socket	83.08		4.27	
05 15 16 00-0124	EA 1/2" Diameter, Steel, Open Swage Socket	83.08		4.27	
05 15 16 00-0125	EA 9/16" Diameter, Steel, Open Swage Socket	127.27		9.38	
05 15 16 00-0126	EA 5/8" Diameter, Steel, Open Swage Socket	127.27		9.38	
05 15 16 00-0127	EA 3/4" Diameter, Steel, Open Swage Socket	172.49		17.92	
05 15 16 00-0128	EA 7/8" Diameter, Steel, Open Swage Socket	234.33		25.59	
05 15 16 00-0129	EA 1" Diameter, Steel, Open Swage Socket	336.20		39.24	
05 15 16 00-0130	EA 1-1/8" Diameter, Steel, Open Swage Socket	459.85		61.42	
05 15 16 00-0131	EA 1-1/4" Diameter, Steel, Open Swage Socket	535.66		70.80	
05 15 16 00-0132 Steel, Closed Swage Sockets (05 15 16)					
05 15 16 00-0133	EA 1/4" Diameter, Steel, Closed Swage Socket	34.73		2.56	
05 15 16 00-0134	EA 5/16" Diameter, Steel, Closed Swage Socket	45.64		2.56	
05 15 16 00-0135	EA 3/8" Diameter, Steel, Closed Swage Socket	45.64		2.56	
05 15 16 00-0136	EA 7/16" Diameter, Steel, Closed Swage Socket	57.61		3.41	
05 15 16 00-0137	EA 1/2" Diameter, Steel, Closed Swage Socket	58.55		3.41	
05 15 16 00-0138	EA 9/16" Diameter, Steel, Closed Swage Socket	83.23		5.97	
05 15 16 00-0139	EA 5/8" Diameter, Steel, Closed Swage Socket	87.30		6.82	
05 15 16 00-0140	EA 3/4" Diameter, Steel, Closed Swage Socket	111.39		11.09	
05 15 16 00-0141	EA 7/8" Diameter, Steel, Closed Swage Socket	147.68		16.21	
05 15 16 00-0142	EA 1" Diameter, Steel, Closed Swage Socket	210.96		22.17	
05 15 16 00-0143	EA 1-1/8" Diameter, Steel, Closed Swage Socket	266.30		30.71	
05 15 16 00-0144	EA 1-1/4" Diameter, Steel, Closed Swage Socket	372.14		47.77	
05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets (05 15 16)					

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0146 EA 1/4" Galvanized Steel, Open Spelter Socket.....	68.09	2.56
05 15 16 00-0147 EA 5/16" Galvanized Steel, Open Spelter Socket.....	70.97	2.56
05 15 16 00-0148 EA 3/8" Galvanized Steel, Open Spelter Socket.....	70.97	2.56
05 15 16 00-0149 EA 7/16" Galvanized Steel, Open Spelter Socket.....	82.62	5.11
05 15 16 00-0150 EA 1/2" Galvanized Steel, Open Spelter Socket.....	82.62	5.11
05 15 16 00-0151 EA 9/16" Galvanized Steel, Open Spelter Socket.....	112.06	8.53
05 15 16 00-0152 EA 5/8" Galvanized Steel, Open Spelter Socket.....	112.06	8.53
05 15 16 00-0153 EA 3/4" Galvanized Steel, Open Spelter Socket.....	145.77	12.79
05 15 16 00-0154 EA 7/8" Galvanized Steel, Open Spelter Socket.....	221.72	21.33
05 15 16 00-0155 EA 1" Galvanized Steel, Open Spelter Socket.....	392.33	33.27
05 15 16 00-0156 EA 1-1/8" Galvanized Steel, Open Spelter Socket.....	488.05	53.74
05 15 16 00-0157 EA 1-1/4" Galvanized Steel, Open Spelter Socket.....	657.90	70.80
05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)		
05 15 16 00-0159 EA 1/4" Galvanized Steel, Closed Spelter Socket.....	57.71	2.56
05 15 16 00-0160 EA 5/16" Galvanized Steel, Closed Spelter Socket.....	58.03	2.56
05 15 16 00-0161 EA 3/8" Galvanized Steel, Closed Spelter Socket.....	58.03	2.56
05 15 16 00-0162 EA 7/16" Galvanized Steel, Closed Spelter Socket.....	67.63	4.27
05 15 16 00-0163 EA 1/2" Galvanized Steel, Closed Spelter Socket.....	67.63	4.27
05 15 16 00-0164 EA 9/16" Galvanized Steel, Closed Spelter Socket.....	98.15	7.68
05 15 16 00-0165 EA 5/8" Galvanized Steel, Closed Spelter Socket.....	98.15	7.68
05 15 16 00-0166 EA 3/4" Galvanized Steel, Closed Spelter Socket.....	124.39	11.09
05 15 16 00-0167 EA 7/8" Galvanized Steel, Closed Spelter Socket.....	182.86	17.06
05 15 16 00-0168 EA 1" Galvanized Steel, Closed Spelter Socket.....	277.77	26.44
05 15 16 00-0169 EA 1-1/8" Galvanized Steel, Closed Spelter Socket.....	364.80	35.82
05 15 16 00-0170 EA 1-1/4" Galvanized Steel, Closed Spelter Socket.....	464.36	47.77
05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)		
05 15 16 00-0172 EA 1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle.....	40.90	2.56
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-4.86	
05 15 16 00-0173 EA 5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle.....	43.59	2.56
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-5.26	
05 15 16 00-0174 EA 3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	48.58	2.56
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-6.01	
05 15 16 00-0175 EA 1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	55.99	3.41
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-6.25	
05 15 16 00-0176 EA 1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	73.22	4.27
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-8.32	
05 15 16 00-0177 EA 1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	83.33	5.11
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-9.42	
05 15 16 00-0178 EA 5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	87.18	6.82
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-9.14	
05 15 16 00-0179 EA 5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	106.08	6.82
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-11.65	
05 15 16 00-0180 EA 5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	119.65	7.68
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-13.38	
05 15 16 00-0181 EA 3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	117.95	9.38
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-12.25	
05 15 16 00-0182 EA 3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	135.83	11.09
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-13.64	
05 15 16 00-0183 EA 3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	164.83	11.94
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-17.41	
05 15 16 00-0184 EA 3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	198.37	14.50
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-20.93	
05 15 16 00-0185 EA 7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	232.03	20.47
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-22.62	
05 15 16 00-0186 EA 7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	279.80	23.89
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-27.75	
05 15 16 00-0187 EA 1" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	239.66	20.47
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-23.76	
05 15 16 00-0188 EA 1" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	280.21	26.44
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-26.04	
05 15 16 00-0189 EA 1" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	377.66	33.27
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-36.96	
05 15 16 00-0190 EA 1" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	425.97	39.24
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-40.63	
05 15 16 00-0191 EA 1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	481.96	47.77
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-43.86	
05 15 16 00-0192 EA 1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	575.08	53.74
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-54.27	
05 15 16 00-0193 EA 1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	730.72	61.42
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-73.05	
05 15 16 00-0194 EA 1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	731.86	65.69
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-70.41	
05 15 16 00-0195 EA 1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	828.22	85.31
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-73.05	
05 15 16 00-0196 EA 1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	1,409.31	110.89
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-147.42	
05 15 16 00-0197 EA 2" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	2,378.55	213.26
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-228.83	



		Metals	05	05
		Structural Metal Framing	05 10	
		Wire Rope Assemblies	05 15	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)					
05 15 16 00-0199	EA	1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	10.44		
05 15 16 00-0200	EA	5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	10.48		
05 15 16 00-0201	EA	3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	11.49		
05 15 16 00-0202	EA	7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	13.61		
05 15 16 00-0203	EA	1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	13.56		
05 15 16 00-0204	EA	5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	17.84		
05 15 16 00-0205	EA	3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	20.78		
05 15 16 00-0206	EA	7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	27.31		
05 15 16 00-0207	EA	1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	35.42		
05 15 16 00-0208	EA	1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	50.33		
05 15 16 00-0209	EA	1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	59.54		
05 15 16 00-0210	EA	1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	105.04		
05 15 16 00-0211	EA	1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	120.17		
05 15 16 00-0212	EA	2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	147.80		
05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)					
05 15 16 00-0214	EA	1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	13.02		
05 15 16 00-0215	EA	1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	12.08		
05 15 16 00-0216	EA	5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	15.37		
05 15 16 00-0217	EA	5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	11.23		
05 15 16 00-0218	EA	3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	14.17		
05 15 16 00-0219	EA	3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.05		
05 15 16 00-0220	EA	3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	19.59		
05 15 16 00-0221	EA	3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	18.75		
05 15 16 00-0222	EA	3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	17.08		
05 15 16 00-0223	EA	3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	17.62		
05 15 16 00-0224	EA	1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	16.04		
05 15 16 00-0225	EA	1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	13.44		
05 15 16 00-0226	EA	1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	16.62		
05 15 16 00-0227	EA	1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	21.70		
05 15 16 00-0228	EA	1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	17.20		
05 15 16 00-0229	EA	1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.91		
05 15 16 00-0230	EA	1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	23.25		
05 15 16 00-0231	EA	1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	21.55		
05 15 16 00-0232	EA	1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	24.79		
05 15 16 00-0233	EA	5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	25.26		
05 15 16 00-0234	EA	5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	22.86		
05 15 16 00-0235	EA	5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	27.96		
05 15 16 00-0236	EA	5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	31.63		
05 15 16 00-0237	EA	5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	36.00		
05 15 16 00-0238	EA	5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	30.36		
05 15 16 00-0239	EA	3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	30.14		
05 15 16 00-0240	EA	3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	30.74		
05 15 16 00-0241	EA	3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	33.70		
05 15 16 00-0242	EA	3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	36.14		
05 15 16 00-0243	EA	3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	41.63		
05 15 16 00-0244	EA	1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	54.27		
05 15 19 Stainless Steel Wire Rope Assemblies (05 15)					
05 15 19 00-0001 7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)					
05 15 19 00-0002	LF	1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.36		0.06
		For >500, Deduct	-0.05		
05 15 19 00-0003	LF	3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.48		0.07
		For >500, Deduct	-0.08		
05 15 19 00-0004	LF	1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.66		0.08
		For >500, Deduct	-0.11		
05 15 19 00-0005	LF	5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.90		0.08
		For >500, Deduct	-0.15		
05 15 19 00-0006	LF	3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	1.16		0.08
		For >500, Deduct	-0.20		
05 15 19 00-0007 7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)					
05 15 19 00-0008	LF	1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.78		0.08
		For >500, Deduct	-0.13		
05 15 19 00-0009	LF	5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.92		0.08
		For >500, Deduct	-0.16		
05 15 19 00-0010	LF	3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	1.08		0.08
		For >500, Deduct	-0.18		
05 15 19 00-0011	LF	1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.47		0.08
		For >500, Deduct	-0.26		
05 15 19 00-0012	LF	5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	2.23		0.08
		For >500, Deduct	-0.40		
05 15 19 00-0013	LF	3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	3.36		0.17
		For >500, Deduct	-0.61		

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0015	LF	1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable		0.36	0.06
		For >500, Deduct	.....	-0.05	
05 15 19 00-0016	LF	3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	.....	0.48	0.07
		For >500, Deduct	.....	-0.08	
05 15 19 00-0017	LF	1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	.....	0.66	0.08
		For >500, Deduct	.....	-0.11	
05 15 19 00-0018	LF	5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	.....	0.90	0.08
		For >500, Deduct	.....	-0.15	
05 15 19 00-0019	LF	3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	.....	1.16	0.08
		For >500, Deduct	.....	-0.20	

05 15 19 00-0020 7x19, 316 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0021	LF	1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable		0.78	0.08
		For >500, Deduct	.....	-0.13	
05 15 19 00-0022	LF	5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	.....	0.92	0.08
		For >500, Deduct	.....	-0.16	
05 15 19 00-0023	LF	3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	.....	1.08	0.08
		For >500, Deduct	.....	-0.18	
05 15 19 00-0024	LF	1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	.....	1.47	0.08
		For >500, Deduct	.....	-0.26	
05 15 19 00-0025	LF	5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	.....	2.23	0.08
		For >500, Deduct	.....	-0.40	
05 15 19 00-0026	LF	3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	.....	3.36	0.08
		For >500, Deduct	.....	-0.61	

05 40 Cold-Formed Metal Framing (05)

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing (05 40)

Note: Includes all necessary framing studs, bridging, fasteners necessary to attach to floors, walls, ceilings and a metal stiffener at half height. Per SF of wall area measures one side. Do not deduct for openings of less than 25 SF when calculating total wall square footage.

05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)

05 41 00 00-0002	SF	2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners		3.39	0.77
		For Walls >10' High, Add	.....	0.68	
		For Curved Wall, Add	.....	0.54	
		For Up To 200, Add	.....	1.04	
		For >200 To 500, Add	.....	0.52	
		For 12" On Center, Add	.....	0.59	
		For 24" On Center, Deduct	.....	-0.59	
05 41 00 00-0003	SF	3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	.....	3.76	0.77
		For Walls >10' High, Add	.....	0.75	
		For Curved Wall, Add	.....	0.57	
		For Up To 200, Add	.....	1.13	
		For >200 To 500, Add	.....	0.57	
		For 12" On Center, Add	.....	0.66	
		For 24" On Center, Deduct	.....	-0.66	
05 41 00 00-0004	SF	4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	.....	3.91	0.77
		For Walls >10' High, Add	.....	0.78	
		For Curved Wall, Add	.....	0.59	
		For Up To 200, Add	.....	1.18	
		For >200 To 500, Add	.....	0.59	
		For 12" On Center, Add	.....	0.68	
		For 24" On Center, Deduct	.....	-0.68	
05 41 00 00-0005	SF	6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	.....	4.86	0.86
		For Walls >10' High, Add	.....	0.97	
		For Curved Wall, Add	.....	0.62	
		For Up To 200, Add	.....	1.39	
		For >200 To 500, Add	.....	0.69	
		For 12" On Center, Add	.....	0.87	
		For 24" On Center, Deduct	.....	-0.87	
05 41 00 00-0006	SF	8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	.....	5.38	0.94
		For Walls >10' High, Add	.....	1.08	
		For Curved Wall, Add	.....	0.65	
		For Up To 200, Add	.....	1.51	
		For >200 To 500, Add	.....	0.75	
		For 12" On Center, Add	.....	0.97	
		For 24" On Center, Deduct	.....	-0.97	

05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)



	Metals	05	05
	Cold-Formed Metal Framing	05 40	
	Structural Metal Stud Framing	05 41	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0008	SF	2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	3.64	0.77
		For Walls >10' High, Add	0.73	
		For Curved Wall, Add	0.57	
		For Up To 200, Add	1.11	
		For >200 To 500, Add	0.56	
		For 12" On Center, Add	0.63	
		For 24" On Center, Deduct	-0.63	
05 41 00 00-0009	SF	3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	4.15	0.78
		For Walls >10' High, Add	0.83	
		For Curved Wall, Add	0.60	
		For Up To 200, Add	1.23	
		For >200 To 500, Add	0.62	
		For 12" On Center, Add	0.73	
		For 24" On Center, Deduct	-0.73	
05 41 00 00-0010	SF	4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.37	0.78
		For Walls >10' High, Add	0.87	
		For Curved Wall, Add	0.62	
		For Up To 200, Add	1.29	
		For >200 To 500, Add	0.65	
		For 12" On Center, Add	0.77	
		For 24" On Center, Deduct	-0.77	
05 41 00 00-0011	SF	6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.40	0.94
		For Walls >10' High, Add	1.08	
		For Curved Wall, Add	0.65	
		For Up To 200, Add	1.52	
		For >200 To 500, Add	0.76	
		For 12" On Center, Add	0.97	
		For 24" On Center, Deduct	-0.97	
05 41 00 00-0012	SF	8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.91	1.03
		For Walls >10' High, Add	1.18	
		For Curved Wall, Add	0.68	
		For Up To 200, Add	1.64	
		For >200 To 500, Add	0.82	
		For 12" On Center, Add	1.07	
		For 24" On Center, Deduct	-1.07	
05 41 00 00-0013		14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)		
05 41 00 00-0014	SF	3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	4.93	1.07
		For Walls >10' High, Add	0.99	
		For Curved Wall, Add	0.72	
		For Up To 200, Add	1.47	
		For >200 To 500, Add	0.73	
		For 12" On Center, Add	0.87	
		For 24" On Center, Deduct	-0.87	
05 41 00 00-0015	SF	4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.06	1.10
		For Walls >10' High, Add	1.01	
		For Curved Wall, Add	0.73	
		For Up To 200, Add	1.50	
		For >200 To 500, Add	0.75	
		For 12" On Center, Add	0.89	
		For 24" On Center, Deduct	-0.89	
05 41 00 00-0016	SF	6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.21	1.16
		For Walls >10' High, Add	1.24	
		For Curved Wall, Add	0.77	
		For Up To 200, Add	1.75	
		For >200 To 500, Add	0.88	
		For 12" On Center, Add	1.11	
		For 24" On Center, Deduct	-1.11	
05 41 00 00-0017	SF	8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.78	1.21
		For Walls >10' High, Add	1.36	
		For Curved Wall, Add	0.80	
		For Up To 200, Add	1.89	
		For >200 To 500, Add	0.95	
		For 12" On Center, Add	1.22	
		For 24" On Center, Deduct	-1.22	
05 42		Cold-Formed Metal Joist Framing (05 40)		
05 42 33		Cold-Formed Metal Joist Framing (05 42)		
05 42 33 00-0001		Steel Joists, 20 Gauge (05 42 33)		
05 42 33 00-0002	LF	5-1/2" - 20 Gauge Steel Joists	6.84	1.85
05 42 33 00-0003	LF	6" - 20 Gauge Steel Joists	7.58	2.33
05 42 33 00-0004	LF	7-1/4" - 20 Gauge Steel Joists	8.21	2.55
05 42 33 00-0005	LF	8" - 20 Gauge Steel Joists	9.15	2.71
05 42 33 00-0006		Steel Joists, 18 Gauge (05 42 33)		
05 42 33 00-0007	LF	5-1/2" - 18 Gauge Steel Joists	7.63	2.06
05 42 33 00-0008	LF	6" - 18 Gauge Steel Joists	8.46	2.58
05 42 33 00-0009	LF	7-1/4" - 18 Gauge Steel Joists	9.17	2.83
05 42 33 00-0010	LF	8" - 18 Gauge Steel Joists	9.48	3.01

05 Metals**05 40 Cold-Formed Metal Framing****05 42 Cold-Formed Metal Joist Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 42 33 00-0011		Steel Joists, 16 Gauge (05 42 33)		
05 42 33 00-0012	LF	7-1/4" - 16 Gauge Steel Joists	9.85	2.86
05 42 33 00-0013	LF	8" - 16 Gauge Steel Joists	10.39	3.01
05 42 33 00-0014		Steel Joists, 14 Gauge (05 42 33)		
05 42 33 00-0015	LF	9-1/4" - 14 Gauge Steel Joists	11.59	3.01
05 42 33 00-0016	LF	11-1/2" - 14 Gauge Steel Joists	12.55	3.18
05 42 33 00-0017		Steel Joists, 12 Gauge (05 42 33)		
05 42 33 00-0018	LF	9-1/4" - 12 Gauge Steel Joists	13.69	3.32
05 42 33 00-0019	LF	11-1/2" - 12 Gauge Steel Joists	14.93	3.50
05 42 33 00-0020		Steel Joists, 10 Gauge (05 42 33)		
05 42 33 00-0021	LF	9-1/4" - 10 Gauge Steel Joists	15.83	3.66
05 42 33 00-0022	LF	11-1/2" - 10 Gauge Steel Joists	17.35	3.85
05 42 33 00-0023		Steel Joists, 8 Gauge (05 42 33)		
05 42 33 00-0024	LF	9-1/4" - 8 Gauge Steel Joists	18.04	4.02
05 42 33 00-0025	LF	11-1/2" - 8 Gauge Steel Joists	19.81	4.23
05 43		Slotted Channel Framing (05 40)		
05 43 00 00-0001		Unistrut Channel (05 43) Note: Excludes fasteners and accessories.		
05 43 00 00-0002		Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0003	LF	1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	7.52	1.92
		For Powder Coating, Add	0.55	
		For Galvanizing, Add	0.62	
05 43 00 00-0004	LF	1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	7.70	1.92
		For Powder Coating, Add	0.58	
		For Galvanizing, Add	0.65	
05 43 00 00-0005	LF	1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	7.97	1.92
		For Powder Coating, Add	0.62	
		For Galvanizing, Add	0.70	
05 43 00 00-0006	LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	7.16	1.92
		For Powder Coating, Add	0.50	
		For Galvanizing, Add	0.56	
05 43 00 00-0007	LF	1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	6.39	1.92
		For Powder Coating, Add	0.38	
		For Galvanizing, Add	0.43	
05 43 00 00-0008		Stainless Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0009		304 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0010	LF	1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	16.94	1.92
05 43 00 00-0011	LF	1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	20.14	1.92
05 43 00 00-0012	LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	19.34	1.92
05 43 00 00-0013	LF	1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	24.28	1.92
05 43 00 00-0014		316 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0015	LF	1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	27.31	1.92
05 43 00 00-0016		Unistrut Closure Strips (05 43)		
05 43 00 00-0017	LF	Raceway Closure Strip For Unistrut Channel	3.61	0.42
05 43 00 00-0018		Lock Nuts With Spring For Unistrut Channel (05 43) Note: Includes hex bolt.		
05 43 00 00-0019		Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018) Note: Includes hex bolt.		
05 43 00 00-0020	EA	1/4-20, Steel Lock Nut With Spring For Unistrut Channel	5.34	
05 43 00 00-0021	EA	3/8-16, Steel Lock Nut With Spring For Unistrut Channel	5.72	
05 43 00 00-0022	EA	1/2-13, Steel Lock Nut With Spring For Unistrut Channel	6.00	
05 43 00 00-0023	EA	5/8-11, Steel Lock Nut With Spring For Unistrut Channel	7.53	
05 43 00 00-0024		Stainless Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018) Note: Includes hex bolt.		
05 43 00 00-0025	EA	1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	10.28	



		Metals	05	
		Cold-Formed Metal Framing	05 40	
		Slotted Channel Framing	05 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0026 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	10.86	
05 43 00 00-0027 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	14.89	
05 43 00 00-0028 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	24.63	
05 43 00 00-0029 Lock Nuts Without Spring For Unistrut Channel (05 43)		
Note: Includes hex bolt.		
05 43 00 00-0030 Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)		
Note: Includes hex bolt.		
05 43 00 00-0031 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	5.35	
05 43 00 00-0032 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	5.77	
05 43 00 00-0033 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	6.02	
05 43 00 00-0034 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	7.98	
05 43 00 00-0035 Stainless Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)		
Note: Includes hex bolt.		
05 43 00 00-0036 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	7.70	
05 43 00 00-0037 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	9.04	
05 43 00 00-0038 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	9.75	
05 43 00 00-0039 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	24.02	
05 43 00 00-0040 Beam Clamp For Unistrut Channel (05 43)		
05 43 00 00-0041 EA Unistrut Beam Clamp, 1-5/8" Channel P2675.....	16.50	6.40
05 43 00 00-0042 EA Unistrut Beam Clamp, 1-5/8" Channel P2676.....	19.96	6.40
05 43 00 00-0043 EA Add For Unistrut Swivel Nut, P2676	1.88	
05 43 00 00-0044 Beam Clamp Clevis Hangers (05 43)		
05 43 00 00-0045 EA Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674)	17.70	6.40
05 43 00 00-0046 EA Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677)	20.45	6.40
05 43 00 00-0047 EA Add For Unistrut Swivel Nut.....	1.88	
05 43 00 00-0048 EA 6-Hole Electrogalvanized Steel Shelf Bracket For Unistrut.....	103.57	8.53
05 45 Metal Support Assemblies (05 40)		
05 45 16 Electrical Metal Supports (05 45)		
See CSI section 26 05 29 00-0000 for metal supports.		
05 50 Metal Fabrications (05)		
05 51 Metal Stairs (05 50)		
05 51 13 Metal Pan Stairs (05 51)		
Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail. See CSI section 05 52 13 00-0000 for handrails.		
05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing (05 51 13)		
Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.		
05 51 13 00-0002 RSR 3'-6" Wide Open Concrete Filled Metal Pan Tread Stair.....	565.94	24.82
For Closed Riser, Add	64.51	
05 51 13 00-0003 RSR 4'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	643.74	28.96
For Closed Riser, Add	73.28	
05 51 13 00-0004 RSR 5'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	718.48	33.93
For Closed Riser, Add	81.56	
05 51 13 00-0005 SF Concrete Filled Steel Pan Landing	65.06	4.14
Note: Conventional shape.		
05 51 19 Metal Grating Stairs (05 51)		
Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing (05 51 19)		
Note: Includes steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0002 RSR 3'-6" Wide Open Steel Grating Tread Metal Stair	283.07	33.10
For Closed Riser, Add	33.16	
For Galvanized Steel, Add	54.22	
05 51 19 00-0003 RSR 4'-0" Wide Open Steel Grating Tread Metal Stair	303.33	38.07
For Closed Riser, Add	35.25	
For Galvanized Steel, Add	56.80	
05 51 19 00-0004 RSR 5'-0" Wide Open Steel Grating Tread Metal Stair	337.22	44.68
For Closed Riser, Add	38.92	
For Galvanized Steel, Add	61.96	
05 51 19 00-0005 SF Steel Grating Landing With Framing And 2 Pipe Handrail	53.73	4.14
Note: Conventional shape.		
For Galvanized Steel, Add	9.30	
05 51 33 Metal Ladders (05 51)		
Note: Includes factory prime.		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 13 Vertical Metal Ladders (05 51 33)				
05 51 33 13-0001 Vertical Ladders (05 51 33 13)				
Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"				
05 51 33 13-0002	VLF	20" Wide Vertical Steel Ladder Primed	70.11	9.92
		For Galvanized Steel, Add	9.74	
		For Aluminum, Add	19.48	
05 51 33 13-0003	VLF	24" Wide Vertical Steel Ladder Primed	79.99	9.92
		For Galvanized Steel, Add	12.21	
		For Aluminum, Add	24.42	
05 51 33 13-0004	VLF	20" Wide Vertical Steel Caged Ladder Primed	165.94	16.55
		For Galvanized Steel, Add	28.30	
		For Aluminum, Add	56.60	
05 51 33 13-0005	VLF	24" Wide Vertical Steel Caged Ladder Primed	185.69	16.55
		For Galvanized Steel, Add	33.24	
		For Aluminum, Add	66.47	
05 51 33 13-0006 Vertical Ladders Options (05 51 33 13)				
05 51 33 13-0007	EA	20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed	219.39	31.03
		Note: Extends 42" above landing surface. Includes mounting bracket.		
		For Galvanized Steel, Add	39.33	
		For Aluminum, Add	78.66	
05 51 33 13-0008	EA	24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed	239.72	33.10
		Note: Extends 42" above landing surface. Includes mounting bracket.		
		For Galvanized Steel, Add	43.38	
		For Aluminum, Add	86.76	
05 51 33 13-0009	EA	Security Cage Entry Gate With Lockable Hasp	309.89	10.35
05 51 33 13-0010	EA	6' Security Ladder Guard	682.85	62.07
05 51 33 13-0011	EA	8' Security Ladder Guard	815.75	72.40
05 51 33 13-0012	EA	Safety Chain Attachment	122.98	
05 51 33 13-0013 Welded Steel Ladder Cages (05 51 33 13)				
Note: For existing fixed ladders up to 20" wide. Excludes the ladder.				
05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages (05 51 33 13-0013)				
05 51 33 13-0015	EA	7-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,265.51	124.12
05 51 33 13-0016	EA	8-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,371.40	128.26
05 51 33 13-0017	EA	9-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,456.07	132.40
05 51 33 13-0018	EA	10-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,546.42	136.53
05 51 33 13-0019	EA	11-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,599.96	140.67
05 51 33 13-0020	EA	12-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,686.06	144.81
05 51 33 13-0021	EA	13-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,762.24	148.95
05 51 33 13-0022	EA	14-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,861.06	153.08
05 51 33 13-0023	EA	15-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,957.06	157.22
05 51 33 13-0024	EA	16-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,036.07	161.36
05 51 33 13-0025	EA	17-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,132.07	165.50
05 51 33 13-0026	EA	18-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,225.23	169.64
05 51 33 13-0027	EA	19-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,316.98	173.78
05 51 33 13-0028	EA	20-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,482.29	177.91
05 51 33 13-0029	EA	21-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,533.01	182.05
05 51 33 13-0030	EA	22-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,619.10	186.19
05 51 33 13-0031	EA	23-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,698.13	190.33
05 51 33 13-0032	EA	24-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,771.49	194.46
05 51 33 13-0033	EA	25-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,932.56	198.60
05 51 33 13-0034	EA	26-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,020.06	202.74
05 51 33 13-0035	EA	27-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,101.91	206.87
05 51 33 13-0036 Stainless Steel, Welded Steel Ladder Cages (05 51 33 13-0013)				
05 51 33 13-0037	EA	7-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	2,938.47	124.12
05 51 33 13-0038	EA	8-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,137.16	128.26
05 51 33 13-0039	EA	9-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,466.85	132.40
05 51 33 13-0040	EA	10-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,630.45	136.53
05 51 33 13-0041	EA	11-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,768.37	140.67
05 51 33 13-0042	EA	12-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,950.86	144.81
05 51 33 13-0043	EA	13-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,277.85	148.95
05 51 33 13-0044	EA	14-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,444.13	153.08
05 51 33 13-0045	EA	15-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,615.82	157.22
05 51 33 13-0046	EA	16-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,803.71	161.36
05 51 33 13-0047	EA	17-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,137.47	165.50
05 51 33 13-0048	EA	18-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,305.10	169.64
05 51 33 13-0049	EA	19-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,464.63	173.78
05 51 33 13-0050	EA	20-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,728.15	177.91
05 51 33 13-0051	EA	21-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,024.08	182.05
05 51 33 13-0052	EA	22-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,189.02	186.19
05 51 33 13-0053	EA	23-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,358.01	190.33
05 51 33 13-0054	EA	24-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,516.19	194.46
05 51 33 13-0055	EA	25-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,920.16	198.60
05 51 33 13-0056	EA	26-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,078.34	202.74
05 51 33 13-0057	EA	27-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,240.58	206.87



	Metals	05	
	Metal Fabrications	05 50	
	Metal Stairs	05 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 51 33 16 Inclined Metal Ladders (05 51 33)

05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)

Note: Includes factory prime.

05 51 33 16-0002	RSR	3'	Wide Industrial Steel Ship Ladder With 2 Rails Each Side.....	212.55	41.37
			For Aluminum, Add	64.90	

05 51 33 23 Alternating Tread Ladders (05 51 33)

05 51 33 23-0001 Vertical Ladders With Alternating Tread (05 51 33 23)

05 51 33 23-0002	EA	4'	Vertical Height Aluminum Alternating Tread Ladder	1,325.44	124.12
			For Stainless Steel, Add	196.80	
			For Primed Steel, Deduct	-191.42	
05 51 33 23-0003	EA	5'	Vertical Height Aluminum Alternating Tread Ladder	1,507.77	131.57
			For Stainless Steel, Add	240.90	
			For Primed Steel, Deduct	-223.30	
05 51 33 23-0004	EA	6'	Vertical Height Aluminum Alternating Tread Ladder	1,658.69	131.57
			For Stainless Steel, Add	288.67	
			For Primed Steel, Deduct	-241.55	
05 51 33 23-0005	EA	7'	Vertical Height Aluminum Alternating Tread Ladder	1,908.62	165.33
			For Stainless Steel, Add	347.24	
			For Primed Steel, Deduct	-256.61	
05 51 33 23-0006	EA	8'	Vertical Height Aluminum Alternating Tread Ladder	2,084.87	171.19
			For Stainless Steel, Add	388.99	
			For Primed Steel, Deduct	-298.53	
05 51 33 23-0007	EA	9'	Vertical Height Aluminum Alternating Tread Ladder	2,218.22	171.19
			For Stainless Steel, Add	453.51	
			For Primed Steel, Deduct	-293.53	
05 51 33 23-0008	EA	10'	Vertical Height Aluminum Alternating Tread Ladder	2,439.03	190.96
			For Stainless Steel, Add	497.40	
			For Primed Steel, Deduct	-327.55	
05 51 33 23-0009	EA	11'	Vertical Height Aluminum Alternating Tread Ladder	2,588.44	190.96
			For Stainless Steel, Add	546.61	
			For Primed Steel, Deduct	-347.07	
05 51 33 23-0010	EA	12'	Vertical Height Aluminum Alternating Tread Ladder	2,704.68	190.96
			For Stainless Steel, Add	623.99	
			For Primed Steel, Deduct	-346.65	

05 52 Metal Railings (05 50)

05 52 13 Pipe And Tube Railings (05 52)

Note: Includes sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001 Welded Steel Pipe Railing (05 52 13)

Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and one rail.

05 52 13 00-0003	LF	1"	Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	37.17	8.27
			For Schedule 80 Handrail, Add	2.92	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.54	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.16	
			For 14 Gauge A513 Steel Tubing, Deduct	-6.80	
			For 16 Gauge A513 Steel Tubing, Deduct	-8.04	
			For Additional Off Set Handrail, ADA Attachment, Add	11.80	
			For Aluminum, Satin Finish, Add	8.66	
			For Aluminum, Clear Anodized Finish, Add	13.40	
			For Aluminum, Dark Anodized Finish, Add	15.47	
			For Galvanizing, Add	8.25	
			For Wrought Iron, Add	3.72	
			For Solid Steel Rails, Add	7.43	
			For 304 Stainless Steel, Add	65.98	
			For 316 Stainless Steel, Add	74.23	
			For 2" Wheel Guard, Add	1.96	
			For 4" High Kick Plate, Add	2.58	
			For 6" High Kick Plate, Add	4.12	
			For Curved Rail, Add	17.34	
			For Mounting On Stairs, Add	4.54	
			For Mounting On Slopes, Add	1.66	
			For Post Base Flange With Screws, Add Per Post	19.16	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.98	
			For Custom Design Or Shapes (Square Tops, etc), Add	14.45	
			For Nylon Coating, Add	3.09	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0004	LF		1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	40.72	8.27
			For Schedule 80 Handrail, Add	4.31	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.32	
			For 12 Gauge A513 Steel Tubing, Deduct	-6.04	
			For 14 Gauge A513 Steel Tubing, Deduct	-7.98	
			For 16 Gauge A513 Steel Tubing, Deduct	-9.43	
			For Additional Off Set Handrail, ADA Attachment, Add	11.80	
			For Aluminum, Satin Finish, Add	10.15	
			For Aluminum, Clear Anodized Finish, Add	15.71	
			For Aluminum, Dark Anodized Finish, Add	18.13	
			For Galvanizing, Add	9.67	
			For Wrought Iron, Add	4.07	
			For Solid Steel Rails, Add	8.14	
			For 304 Stainless Steel, Add	77.34	
			For 316 Stainless Steel, Add	87.01	
			For 2" Wheel Guard, Add	2.30	
			For 4" High Kick Plate, Add	3.02	
			For 6" High Kick Plate, Add	4.83	
			For Curved Rail, Add	19.47	
			For Mounting On Stairs, Add	4.90	
			For Mounting On Slopes, Add	1.66	
			For Post Base Flange With Screws, Add Per Post	19.16	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.98	
			For Custom Design Or Shapes (Square Tops, etc), Add	16.22	
			For Nylon Coating, Add	3.63	
05 52 13 00-0005	LF		1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	44.27	8.27
			For Schedule 80 Handrail, Add	4.31	
			For 11 Gauge A513 Steel Tubing, Deduct	-6.10	
			For 12 Gauge A513 Steel Tubing, Deduct	-6.93	
			For 14 Gauge A513 Steel Tubing, Deduct	-9.15	
			For 16 Gauge A513 Steel Tubing, Deduct	-10.81	
			For Additional Off Set Handrail, ADA Attachment, Add	11.80	
			For Aluminum, Satin Finish, Add	11.64	
			For Aluminum, Clear Anodized Finish, Add	18.02	
			For Aluminum, Dark Anodized Finish, Add	20.79	
			For Galvanizing, Add	11.09	
			For Wrought Iron, Add	4.43	
			For Solid Steel Rails, Add	8.85	
			For 304 Stainless Steel, Add	88.70	
			For 316 Stainless Steel, Add	99.79	
			For 2" Wheel Guard, Add	2.63	
			For 4" High Kick Plate, Add	3.47	
			For 6" High Kick Plate, Add	5.54	
			For Curved Rail, Add	21.60	
			For Mounting On Stairs, Add	5.25	
			For Mounting On Slopes, Add	1.66	
			For Post Base Flange With Screws, Add Per Post	19.16	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.98	
			For Custom Design Or Shapes (Square Tops, etc), Add	18.00	
			For Nylon Coating, Add	4.16	
05 52 13 00-0006	LF		2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	50.43	8.27
			For Schedule 80 Handrail, Add	4.88	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.45	
			For 12 Gauge A513 Steel Tubing, Deduct	-8.47	
			For 14 Gauge A513 Steel Tubing, Deduct	-11.18	
			For 16 Gauge A513 Steel Tubing, Deduct	-13.21	
			For Additional Off Set Handrail, ADA Attachment, Add	11.80	
			For Aluminum, Satin Finish, Add	14.23	
			For Aluminum, Clear Anodized Finish, Add	22.02	
			For Aluminum, Dark Anodized Finish, Add	25.41	
			For Galvanizing, Add	13.55	
			For Wrought Iron, Add	5.04	
			For Solid Steel Rails, Add	10.09	
			For 304 Stainless Steel, Add	108.42	
			For 316 Stainless Steel, Add	121.97	
			For 2" Wheel Guard, Add	3.22	
			For 4" High Kick Plate, Add	4.24	
			For 6" High Kick Plate, Add	6.78	
			For Curved Rail, Add	25.29	
			For Mounting On Stairs, Add	5.87	
			For Mounting On Slopes, Add	1.66	
			For Post Base Flange With Screws, Add Per Post	19.16	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.98	
			For Custom Design Or Shapes (Square Tops, etc), Add	21.08	
			For Nylon Coating, Add	5.08	



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0007	LF	2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	57.81	8.27	
		For Schedule 80 Handrail, Add	5.45		
		For 11 Gauge A513 Steel Tubing, Deduct	-9.08		
		For 12 Gauge A513 Steel Tubing, Deduct	-10.32		
		For 14 Gauge A513 Steel Tubing, Deduct	-13.62		
		For 16 Gauge A513 Steel Tubing, Deduct	-16.09		
		For Additional Off Set Handrail, ADA Attachment, Add	11.80		
		For Aluminum, Satin Finish, Add	17.33		
		For Aluminum, Clear Anodized Finish, Add	26.82		
		For Aluminum, Dark Anodized Finish, Add	30.95		
		For Galvanizing, Add	16.50		
		For Wrought Iron, Add	5.78		
		For Solid Steel Rails, Add	11.56		
		For 304 Stainless Steel, Add	132.03		
		For 316 Stainless Steel, Add	148.54		
		For 2" Wheel Guard, Add	3.92		
		For 4" High Kick Plate, Add	5.16		
		For 6" High Kick Plate, Add	8.25		
		For Curved Rail, Add	29.72		
		For Mounting On Stairs, Add	6.61		
		For Mounting On Slopes, Add	1.66		
		For Post Base Flange With Screws, Add Per Post	19.16		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.98		
		For Custom Design Or Shapes (Square Tops, etc), Add	24.77		
		For Nylon Coating, Add	6.19		
05 52 13 00-0008		Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)			
		Note: Includes factory primed posts and two rails.			
05 52 13 00-0009	LF	1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	42.32	8.27	
		For Schedule 80 Handrail, Add	2.92		
		For 11 Gauge A513 Steel Tubing, Deduct	-5.67		
		For 12 Gauge A513 Steel Tubing, Deduct	-6.44		
		For 14 Gauge A513 Steel Tubing, Deduct	-8.50		
		For 16 Gauge A513 Steel Tubing, Deduct	-10.05		
		For Additional Off Set Handrail, ADA Attachment, Add	11.80		
		For Aluminum, Satin Finish, Add	10.82		
		For Aluminum, Clear Anodized Finish, Add	16.75		
		For Aluminum, Dark Anodized Finish, Add	19.33		
		For Galvanizing, Add	10.31		
		For Wrought Iron, Add	4.23		
		For Solid Steel Rails, Add	8.46		
		For 304 Stainless Steel, Add	82.46		
		For 316 Stainless Steel, Add	92.77		
		For 2" Wheel Guard, Add	2.45		
		For 4" High Kick Plate, Add	3.22		
		For 6" High Kick Plate, Add	5.15		
		For Curved Rail, Add	20.43		
		For Mounting On Stairs, Add	5.06		
		For Mounting On Slopes, Add	1.66		
		For Post Base Flange With Screws, Add Per Post	19.16		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.98		
		For Custom Design Or Shapes (Square Tops, etc), Add	17.02		
		For Nylon Coating, Add	3.87		
05 52 13 00-0010	LF	1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	46.76	8.27	
		For Schedule 80 Handrail, Add	4.31		
		For 11 Gauge A513 Steel Tubing, Deduct	-6.65		
		For 12 Gauge A513 Steel Tubing, Deduct	-7.55		
		For 14 Gauge A513 Steel Tubing, Deduct	-9.97		
		For 16 Gauge A513 Steel Tubing, Deduct	-11.78		
		For Additional Off Set Handrail, ADA Attachment, Add	11.80		
		For Aluminum, Satin Finish, Add	12.69		
		For Aluminum, Clear Anodized Finish, Add	19.64		
		For Aluminum, Dark Anodized Finish, Add	22.66		
		For Galvanizing, Add	12.08		
		For Wrought Iron, Add	4.68		
		For Solid Steel Rails, Add	9.35		
		For 304 Stainless Steel, Add	96.67		
		For 316 Stainless Steel, Add	108.76		
		For 2" Wheel Guard, Add	2.87		
		For 4" High Kick Plate, Add	3.78		
		For 6" High Kick Plate, Add	6.04		
		For Curved Rail, Add	23.09		
		For Mounting On Stairs, Add	5.50		
		For Mounting On Slopes, Add	1.66		
		For Post Base Flange With Screws, Add Per Post	19.16		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.98		
		For Custom Design Or Shapes (Square Tops, etc), Add	19.24		
		For Nylon Coating, Add	4.53		

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	51.20	8.27
For Schedule 80 Handrail, Add	4.31	
For 11 Gauge A513 Steel Tubing, Deduct	-7.62	
For 12 Gauge A513 Steel Tubing, Deduct	-8.66	
For 14 Gauge A513 Steel Tubing, Deduct	-11.43	
For 16 Gauge A513 Steel Tubing, Deduct	-13.51	
For Additional Off Set Handrail, ADA Attachment, Add	11.80	
For Aluminum, Satin Finish, Add	14.55	
For Aluminum, Clear Anodized Finish, Add	22.52	
For Aluminum, Dark Anodized Finish, Add	25.99	
For Galvanizing, Add	13.86	
For Wrought Iron, Add	5.12	
For Solid Steel Rails, Add	10.24	
For 304 Stainless Steel, Add	110.88	
For 316 Stainless Steel, Add	124.74	
For 2" Wheel Guard, Add	3.29	
For 4" High Kick Plate, Add	4.33	
For 6" High Kick Plate, Add	6.93	
For Curved Rail, Add	25.76	
For Mounting On Stairs, Add	5.95	
For Mounting On Slopes, Add	1.66	
For Post Base Flange With Screws, Add Per Post	19.16	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.98	
For Custom Design Or Shapes (Square Tops, etc), Add	21.46	
For Nylon Coating, Add	5.20	
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	58.90	8.27
For Schedule 80 Handrail, Add	4.88	
For 11 Gauge A513 Steel Tubing, Deduct	-9.32	
For 12 Gauge A513 Steel Tubing, Deduct	-10.59	
For 14 Gauge A513 Steel Tubing, Deduct	-13.98	
For 16 Gauge A513 Steel Tubing, Deduct	-16.52	
For Additional Off Set Handrail, ADA Attachment, Add	11.80	
For Aluminum, Satin Finish, Add	17.79	
For Aluminum, Clear Anodized Finish, Add	27.53	
For Aluminum, Dark Anodized Finish, Add	31.76	
For Galvanizing, Add	16.94	
For Wrought Iron, Add	5.89	
For Solid Steel Rails, Add	11.78	
For 304 Stainless Steel, Add	135.52	
For 316 Stainless Steel, Add	152.46	
For 2" Wheel Guard, Add	4.02	
For 4" High Kick Plate, Add	5.29	
For 6" High Kick Plate, Add	8.47	
For Curved Rail, Add	30.38	
For Mounting On Stairs, Add	6.72	
For Mounting On Slopes, Add	1.66	
For Post Base Flange With Screws, Add Per Post	19.16	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.98	
For Custom Design Or Shapes (Square Tops, etc), Add	25.31	
For Nylon Coating, Add	6.35	
05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	68.13	8.27
For Schedule 80 Handrail, Add	5.45	
For 11 Gauge A513 Steel Tubing, Deduct	-11.35	
For 12 Gauge A513 Steel Tubing, Deduct	-12.90	
For 14 Gauge A513 Steel Tubing, Deduct	-17.02	
For 16 Gauge A513 Steel Tubing, Deduct	-20.12	
For Additional Off Set Handrail, ADA Attachment, Add	11.80	
For Aluminum, Satin Finish, Add	21.66	
For Aluminum, Clear Anodized Finish, Add	33.53	
For Aluminum, Dark Anodized Finish, Add	38.69	
For Galvanizing, Add	20.63	
For Wrought Iron, Add	6.81	
For Solid Steel Rails, Add	13.63	
For 304 Stainless Steel, Add	165.06	
For 316 Stainless Steel, Add	185.69	
For 2" Wheel Guard, Add	4.90	
For 4" High Kick Plate, Add	6.45	
For 6" High Kick Plate, Add	10.32	
For Curved Rail, Add	35.91	
For Mounting On Stairs, Add	7.64	
For Mounting On Slopes, Add	1.66	
For Post Base Flange With Screws, Add Per Post	19.16	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.98	
For Custom Design Or Shapes (Square Tops, etc), Add	29.93	
For Nylon Coating, Add	7.74	

05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and three rails.



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0015	LF		1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	56.70	9.92
			For Schedule 80 Handrail, Add	4.32	
			For 11 Gauge A513 Steel Tubing, Deduct	-8.10	
			For 12 Gauge A513 Steel Tubing, Deduct	-9.21	
			For 14 Gauge A513 Steel Tubing, Deduct	-12.16	
			For 16 Gauge A513 Steel Tubing, Deduct	-14.37	
			For Additional Off Set Handrail, ADA Attachment, Add	12.46	
			For Aluminum, Satin Finish, Add	15.47	
			For Aluminum, Clear Anodized Finish, Add	23.95	
			For Aluminum, Dark Anodized Finish, Add	27.63	
			For Galvanizing, Add	14.74	
			For Wrought Iron, Add	5.67	
			For Solid Steel Rails, Add	11.34	
			For 304 Stainless Steel, Add	117.89	
			For 316 Stainless Steel, Add	132.62	
			For 2" Wheel Guard, Add	3.50	
			For 4" High Kick Plate, Add	4.61	
			For 6" High Kick Plate, Add	7.37	
			For Curved Rail, Add	28.06	
			For Mounting On Stairs, Add	6.66	
			For Mounting On Slopes, Add	1.99	
			For Post Base Flange With Screws, Add Per Post	19.49	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
			For Custom Design Or Shapes (Square Tops, etc), Add	23.39	
			For Nylon Coating, Add	5.53	
05 52 13 00-0016	LF		1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	63.04	9.92
			For Schedule 80 Handrail, Add	6.18	
			For 11 Gauge A513 Steel Tubing, Deduct	-9.50	
			For 12 Gauge A513 Steel Tubing, Deduct	-10.80	
			For 14 Gauge A513 Steel Tubing, Deduct	-14.25	
			For 16 Gauge A513 Steel Tubing, Deduct	-16.84	
			For Additional Off Set Handrail, ADA Attachment, Add	12.46	
			For Aluminum, Satin Finish, Add	18.14	
			For Aluminum, Clear Anodized Finish, Add	28.07	
			For Aluminum, Dark Anodized Finish, Add	32.39	
			For Galvanizing, Add	17.27	
			For Wrought Iron, Add	6.30	
			For Solid Steel Rails, Add	12.61	
			For 304 Stainless Steel, Add	138.18	
			For 316 Stainless Steel, Add	155.45	
			For 2" Wheel Guard, Add	4.10	
			For 4" High Kick Plate, Add	5.40	
			For 6" High Kick Plate, Add	8.64	
			For Curved Rail, Add	31.87	
			For Mounting On Stairs, Add	7.30	
			For Mounting On Slopes, Add	1.99	
			For Post Base Flange With Screws, Add Per Post	19.49	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
			For Custom Design Or Shapes (Square Tops, etc), Add	26.56	
			For Nylon Coating, Add	6.48	
05 52 13 00-0017	LF		1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	69.38	9.92
			For Schedule 80 Handrail, Add	6.18	
			For 11 Gauge A513 Steel Tubing, Deduct	-10.89	
			For 12 Gauge A513 Steel Tubing, Deduct	-12.38	
			For 14 Gauge A513 Steel Tubing, Deduct	-16.34	
			For 16 Gauge A513 Steel Tubing, Deduct	-19.31	
			For Additional Off Set Handrail, ADA Attachment, Add	12.46	
			For Aluminum, Satin Finish, Add	20.80	
			For Aluminum, Clear Anodized Finish, Add	32.19	
			For Aluminum, Dark Anodized Finish, Add	37.14	
			For Galvanizing, Add	19.81	
			For Wrought Iron, Add	6.94	
			For Solid Steel Rails, Add	13.88	
			For 304 Stainless Steel, Add	158.46	
			For 316 Stainless Steel, Add	178.27	
			For 2" Wheel Guard, Add	4.70	
			For 4" High Kick Plate, Add	6.19	
			For 6" High Kick Plate, Add	9.90	
			For Curved Rail, Add	35.67	
			For Mounting On Stairs, Add	7.93	
			For Mounting On Slopes, Add	1.99	
			For Post Base Flange With Screws, Add Per Post	19.49	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
			For Custom Design Or Shapes (Square Tops, etc), Add	29.73	
			For Nylon Coating, Add	7.43	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0018	LF		2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	80.41	9.92
			For Schedule 80 Handrail, Add	6.93	
			For 11 Gauge A513 Steel Tubing, Deduct	-13.32	
			For 12 Gauge A513 Steel Tubing, Deduct	-15.14	
			For 14 Gauge A513 Steel Tubing, Deduct	-19.98	
			For 16 Gauge A513 Steel Tubing, Deduct	-23.61	
			For Additional Off Set Handrail, ADA Attachment, Add	12.46	
			For Aluminum, Satin Finish, Add	25.43	
			For Aluminum, Clear Anodized Finish, Add	39.36	
			For Aluminum, Dark Anodized Finish, Add	45.41	
			For Galvanizing, Add	24.22	
			For Wrought Iron, Add	8.04	
			For Solid Steel Rails, Add	16.08	
			For 304 Stainless Steel, Add	193.76	
			For 316 Stainless Steel, Add	217.98	
			For 2" Wheel Guard, Add	5.75	
			For 4" High Kick Plate, Add	7.57	
			For 6" High Kick Plate, Add	12.11	
			For Curved Rail, Add	42.29	
			For Mounting On Stairs, Add	9.03	
			For Mounting On Slopes, Add	1.99	
			For Post Base Flange With Screws, Add Per Post	19.49	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
			For Custom Design Or Shapes (Square Tops, etc), Add	35.24	
			For Nylon Coating, Add	9.08	
05 52 13 00-0019	LF		2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	93.53	9.92
			For Schedule 80 Handrail, Add	7.69	
			For 11 Gauge A513 Steel Tubing, Deduct	-16.21	
			For 12 Gauge A513 Steel Tubing, Deduct	-18.42	
			For 14 Gauge A513 Steel Tubing, Deduct	-24.31	
			For 16 Gauge A513 Steel Tubing, Deduct	-28.73	
			For Additional Off Set Handrail, ADA Attachment, Add	12.46	
			For Aluminum, Satin Finish, Add	30.94	
			For Aluminum, Clear Anodized Finish, Add	47.89	
			For Aluminum, Dark Anodized Finish, Add	55.25	
			For Galvanizing, Add	29.47	
			For Wrought Iron, Add	9.35	
			For Solid Steel Rails, Add	18.71	
			For 304 Stainless Steel, Add	235.74	
			For 316 Stainless Steel, Add	265.21	
			For 2" Wheel Guard, Add	7.00	
			For 4" High Kick Plate, Add	9.21	
			For 6" High Kick Plate, Add	14.73	
			For Curved Rail, Add	50.16	
			For Mounting On Stairs, Add	10.35	
			For Mounting On Slopes, Add	1.99	
			For Post Base Flange With Screws, Add Per Post	19.49	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
			For Custom Design Or Shapes (Square Tops, etc), Add	41.80	
			For Nylon Coating, Add	11.05	
05 52 13 00-0020			Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
			Note: Includes factory primed posts and four rails.		
05 52 13 00-0021	LF		1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	68.38	11.59
			For Schedule 80 Handrail, Add	5.93	
			For 11 Gauge A513 Steel Tubing, Deduct	-9.95	
			For 12 Gauge A513 Steel Tubing, Deduct	-11.30	
			For 14 Gauge A513 Steel Tubing, Deduct	-14.92	
			For 16 Gauge A513 Steel Tubing, Deduct	-17.63	
			For Additional Off Set Handrail, ADA Attachment, Add	13.12	
			For Aluminum, Satin Finish, Add	18.99	
			For Aluminum, Clear Anodized Finish, Add	29.39	
			For Aluminum, Dark Anodized Finish, Add	33.91	
			For Galvanizing, Add	18.08	
			For Wrought Iron, Add	6.84	
			For Solid Steel Rails, Add	13.68	
			For 304 Stainless Steel, Add	144.67	
			For 316 Stainless Steel, Add	162.76	
			For 2" Wheel Guard, Add	4.29	
			For 4" High Kick Plate, Add	5.65	
			For 6" High Kick Plate, Add	9.04	
			For Curved Rail, Add	34.08	
			For Mounting On Stairs, Add	8.00	
			For Mounting On Slopes, Add	2.32	
			For Post Base Flange With Screws, Add Per Post	19.82	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.98	
			For Custom Design Or Shapes (Square Tops, etc), Add	28.40	
			For Nylon Coating, Add	6.78	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0022	LF	1-1/4"	Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	74.01	11.59
			For Schedule 80 Handrail, Add	8.25	
			For 11 Gauge A513 Steel Tubing, Deduct	-11.18	
			For 12 Gauge A513 Steel Tubing, Deduct	-12.71	
			For 14 Gauge A513 Steel Tubing, Deduct	-16.78	
			For 16 Gauge A513 Steel Tubing, Deduct	-19.83	
			For Additional Off Set Handrail, ADA Attachment, Add	13.12	
			For Aluminum, Satin Finish, Add	21.35	
			For Aluminum, Clear Anodized Finish, Add	33.05	
			For Aluminum, Dark Anodized Finish, Add	38.13	
			For Galvanizing, Add	20.34	
			For Wrought Iron, Add	7.40	
			For Solid Steel Rails, Add	14.80	
			For 304 Stainless Steel, Add	162.69	
			For 316 Stainless Steel, Add	183.02	
			For 2" Wheel Guard, Add	4.83	
			For 4" High Kick Plate, Add	6.36	
			For 6" High Kick Plate, Add	10.17	
			For Curved Rail, Add	37.46	
			For Mounting On Stairs, Add	8.56	
			For Mounting On Slopes, Add	2.32	
			For Post Base Flange With Screws, Add Per Post	19.82	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.98	
			For Custom Design Or Shapes (Square Tops, etc), Add	31.21	
			For Nylon Coating, Add	7.63	
05 52 13 00-0023	LF	1-1/2"	Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	79.65	11.59
			For Schedule 80 Handrail, Add	8.25	
			For 11 Gauge A513 Steel Tubing, Deduct	-12.43	
			For 12 Gauge A513 Steel Tubing, Deduct	-14.12	
			For 14 Gauge A513 Steel Tubing, Deduct	-18.64	
			For 16 Gauge A513 Steel Tubing, Deduct	-22.03	
			For Additional Off Set Handrail, ADA Attachment, Add	13.12	
			For Aluminum, Satin Finish, Add	23.72	
			For Aluminum, Clear Anodized Finish, Add	36.71	
			For Aluminum, Dark Anodized Finish, Add	42.36	
			For Galvanizing, Add	22.59	
			For Wrought Iron, Add	7.97	
			For Solid Steel Rails, Add	15.93	
			For 304 Stainless Steel, Add	180.74	
			For 316 Stainless Steel, Add	203.33	
			For 2" Wheel Guard, Add	5.37	
			For 4" High Kick Plate, Add	7.06	
			For 6" High Kick Plate, Add	11.30	
			For Curved Rail, Add	40.84	
			For Mounting On Stairs, Add	9.12	
			For Mounting On Slopes, Add	2.32	
			For Post Base Flange With Screws, Add Per Post	19.82	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.98	
			For Custom Design Or Shapes (Square Tops, etc), Add	34.03	
			For Nylon Coating, Add	8.47	
05 52 13 00-0024	LF	2"	Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	92.19	11.59
			For Schedule 80 Handrail, Add	9.19	
			For 11 Gauge A513 Steel Tubing, Deduct	-15.18	
			For 12 Gauge A513 Steel Tubing, Deduct	-17.26	
			For 14 Gauge A513 Steel Tubing, Deduct	-22.78	
			For 16 Gauge A513 Steel Tubing, Deduct	-26.92	
			For Additional Off Set Handrail, ADA Attachment, Add	13.12	
			For Aluminum, Satin Finish, Add	28.99	
			For Aluminum, Clear Anodized Finish, Add	44.86	
			For Aluminum, Dark Anodized Finish, Add	51.77	
			For Galvanizing, Add	27.61	
			For Wrought Iron, Add	9.22	
			For Solid Steel Rails, Add	18.44	
			For 304 Stainless Steel, Add	220.86	
			For 316 Stainless Steel, Add	248.47	
			For 2" Wheel Guard, Add	6.56	
			For 4" High Kick Plate, Add	8.63	
			For 6" High Kick Plate, Add	13.80	
			For Curved Rail, Add	48.36	
			For Mounting On Stairs, Add	10.38	
			For Mounting On Slopes, Add	2.32	
			For Post Base Flange With Screws, Add Per Post	19.82	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.98	
			For Custom Design Or Shapes (Square Tops, etc), Add	40.30	
			For Nylon Coating, Add	10.35	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing 106.89		11.59
For Schedule 80 Handrail, Add	10.14	
For 11 Gauge A513 Steel Tubing, Deduct	-18.42	
For 12 Gauge A513 Steel Tubing, Deduct	-20.93	
For 14 Gauge A513 Steel Tubing, Deduct	-27.63	
For 16 Gauge A513 Steel Tubing, Deduct	-32.65	
For Additional Off Set Handrail, ADA Attachment, Add	13.12	
For Aluminum, Satin Finish, Add	35.16	
For Aluminum, Clear Anodized Finish, Add	54.42	
For Aluminum, Dark Anodized Finish, Add	62.79	
For Galvanizing, Add	33.49	
For Wrought Iron, Add	10.69	
For Solid Steel Rails, Add	21.38	
For 304 Stainless Steel, Add	267.90	
For 316 Stainless Steel, Add	301.39	
For 2" Wheel Guard, Add	7.95	
For 4" High Kick Plate, Add	10.47	
For 6" High Kick Plate, Add	16.74	
For Curved Rail, Add	57.18	
For Mounting On Stairs, Add	11.85	
For Mounting On Slopes, Add	2.32	
For Post Base Flange With Screws, Add Per Post	19.82	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.98	
For Custom Design Or Shapes (Square Tops, etc), Add	47.65	
For Nylon Coating, Add	12.56	
 05 52 13 00-0026 Railing Infill Panels (05 52 13)		
Note: Includes field welds and touch-up of welds.		
 05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel 8.20		
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel 8.71		
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel 9.16		
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....15.49		
 05 52 13 00-0032 Perforated Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel 8.05		
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel 8.32		
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel 8.90		
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel 17.87		
 05 52 13 00-0037 Expanded Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....3.63		
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel.....7.42		
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel.....9.74		
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel.....14.52		
 05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)		
Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0043 LF 1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....32.14		4.96
For Schedule 80 Handrail, Add	1.73	
For 11 Gauge A513 Steel Tubing, Deduct	-4.34	
For 12 Gauge A513 Steel Tubing, Deduct	-4.93	
For 14 Gauge A513 Steel Tubing, Deduct	-6.51	
For 16 Gauge A513 Steel Tubing, Deduct	-7.69	
For Stainless Steel, Add	39.46	
For Aluminum, Satin Finish, Add	8.29	
For Curved Rail, Add	9.64	
For Aluminum, Clear Anodized Finish, Add	12.82	
For Aluminum, Dark Anodized Finish, Add	14.80	
For Galvanized Finish, Add	5.92	
05 52 13 00-0044 LF 1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....32.77		4.96
For Schedule 80 Handrail, Add	1.96	
For 11 Gauge A513 Steel Tubing, Deduct	-4.48	
For 12 Gauge A513 Steel Tubing, Deduct	-5.09	
For 14 Gauge A513 Steel Tubing, Deduct	-6.72	
For 16 Gauge A513 Steel Tubing, Deduct	-7.94	
For Stainless Steel, Add	40.72	
For Aluminum, Satin Finish, Add	8.55	
For Curved Rail, Add	9.83	
For Aluminum, Clear Anodized Finish, Add	13.23	
For Aluminum, Dark Anodized Finish, Add	15.27	
For Galvanized Finish, Add	6.11	



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Railings	05 52	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 52 13 00-0045	LF	1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	33.41	4.96
		For Schedule 80 Handrail, Add	5.06	
		For 11 Gauge A513 Steel Tubing, Deduct	-4.62	
		For 12 Gauge A513 Steel Tubing, Deduct	-5.25	
		For 14 Gauge A513 Steel Tubing, Deduct	-6.93	
		For 16 Gauge A513 Steel Tubing, Deduct	-8.19	
		For Stainless Steel, Add	42.00	
		For Aluminum, Satin Finish, Add	8.82	
		For Curved Rail, Add	10.02	
		For Aluminum, Clear Anodized Finish, Add	13.65	
		For Aluminum, Dark Anodized Finish, Add	15.75	
		For Galvanized Finish, Add	6.30	
05 52 13 00-0046	LF	2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	40.73	4.96
		For Schedule 80 Handrail, Add	2.38	
		For 11 Gauge A513 Steel Tubing, Deduct	-6.23	
		For 12 Gauge A513 Steel Tubing, Deduct	-7.08	
		For 14 Gauge A513 Steel Tubing, Deduct	-9.35	
		For 16 Gauge A513 Steel Tubing, Deduct	-11.04	
		For Stainless Steel, Add	56.64	
		For Aluminum, Satin Finish, Add	11.89	
		For Curved Rail, Add	12.22	
		For Aluminum, Clear Anodized Finish, Add	18.41	
		For Aluminum, Dark Anodized Finish, Add	21.24	
		For Galvanized Finish, Add	8.50	
05 52 13 00-0047	LF	2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	46.77	4.96
		For Schedule 80 Handrail, Add	2.57	
		For 11 Gauge A513 Steel Tubing, Deduct	-7.56	
		For 12 Gauge A513 Steel Tubing, Deduct	-8.59	
		For 14 Gauge A513 Steel Tubing, Deduct	-11.34	
		For 16 Gauge A513 Steel Tubing, Deduct	-13.40	
		For Stainless Steel, Add	68.72	
		For Aluminum, Satin Finish, Add	14.43	
		For Curved Rail, Add	14.03	
		For Aluminum, Clear Anodized Finish, Add	22.33	
		For Aluminum, Dark Anodized Finish, Add	25.77	
		For Galvanized Finish, Add	10.31	
05 52 13 00-0048		Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel		
		Pipe Railings (05 52 13)		
		Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049	LF	1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	39.61	5.21
		For Schedule 80 Handrail, Add	1.73	
		For 11 Gauge A513 Steel Tubing, Deduct	-5.98	
		For 12 Gauge A513 Steel Tubing, Deduct	-6.80	
		For 14 Gauge A513 Steel Tubing, Deduct	-8.98	
		For 16 Gauge A513 Steel Tubing, Deduct	-10.61	
		For Stainless Steel, Add	54.40	
		For Aluminum, Satin Finish, Add	11.42	
		For Curved Rail, Add	11.88	
		For Aluminum, Clear Anodized Finish, Add	17.68	
		For Aluminum, Dark Anodized Finish, Add	20.40	
		For Galvanized Finish, Add	8.16	
05 52 13 00-0050	LF	1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	40.51	5.21
		For Schedule 80 Handrail, Add	1.96	
		For 11 Gauge A513 Steel Tubing, Deduct	-6.18	
		For 12 Gauge A513 Steel Tubing, Deduct	-7.03	
		For 14 Gauge A513 Steel Tubing, Deduct	-9.27	
		For 16 Gauge A513 Steel Tubing, Deduct	-10.96	
		For Stainless Steel, Add	56.20	
		For Aluminum, Satin Finish, Add	11.80	
		For Curved Rail, Add	12.15	
		For Aluminum, Clear Anodized Finish, Add	18.27	
		For Aluminum, Dark Anodized Finish, Add	21.08	
		For Galvanized Finish, Add	8.43	
05 52 13 00-0051	LF	1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	41.17	5.21
		For Schedule 80 Handrail, Add	5.06	
		For 11 Gauge A513 Steel Tubing, Deduct	-6.33	
		For 12 Gauge A513 Steel Tubing, Deduct	-7.19	
		For 14 Gauge A513 Steel Tubing, Deduct	-9.49	
		For 16 Gauge A513 Steel Tubing, Deduct	-11.22	
		For Stainless Steel, Add	57.52	
		For Aluminum, Satin Finish, Add	12.08	
		For Curved Rail, Add	12.35	
		For Aluminum, Clear Anodized Finish, Add	18.69	
		For Aluminum, Dark Anodized Finish, Add	21.57	
		For Galvanized Finish, Add	8.63	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0052 LF 2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	51.39	5.21
For Schedule 80 Handrail, Add	2.38	
For 11 Gauge A513 Steel Tubing, Deduct	-8.58	
For 12 Gauge A513 Steel Tubing, Deduct	-9.75	
For 14 Gauge A513 Steel Tubing, Deduct	-12.86	
For 16 Gauge A513 Steel Tubing, Deduct	-15.20	
For Stainless Steel, Add	77.96	
For Aluminum, Satin Finish, Add	16.37	
For Curved Rail, Add	15.42	
For Aluminum, Clear Anodized Finish, Add	25.34	
For Aluminum, Dark Anodized Finish, Add	29.24	
For Galvanized Finish, Add	11.69	
05 52 13 00-0053 LF 2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	58.07	5.21
For Schedule 80 Handrail, Add	2.57	
For 11 Gauge A513 Steel Tubing, Deduct	-10.05	
For 12 Gauge A513 Steel Tubing, Deduct	-11.42	
For 14 Gauge A513 Steel Tubing, Deduct	-15.07	
For 16 Gauge A513 Steel Tubing, Deduct	-17.81	
For Stainless Steel, Add	91.32	
For Aluminum, Satin Finish, Add	19.18	
For Curved Rail, Add	17.42	
For Aluminum, Clear Anodized Finish, Add	29.68	
For Aluminum, Dark Anodized Finish, Add	34.25	
For Galvanized Finish, Add	13.70	
05 52 13 00-0054 Remove/Reinstall Pipe Railing (05 52 13)		
05 52 13 00-0055 LF Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing	18.62	
05 52 13 00-0056 LF Removal And Reinstallation Of Floor Mounted Pipe Railing	24.34	
05 52 13 00-0057 EA Install New Galvanized Steel Pipe Railing Bracket	42.87	
For Stainless Steel, Add	36.10	
05 53 Metal Gratings (05 50)		
05 53 13 Bar Gratings (05 53)		
05 53 13 00-0001 Welded Grating (05 53 13)		
Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002 Steel, Welded Grating (05 53 13 00-0001)		
Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003 SF 3/4" x 1/8" Steel, Welded Grating	7.01	0.91
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	0.88	
For 304 Stainless Steel, Add	16.66	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	1.52	
For Crossbars At 2" O.C., Add	0.56	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.35	
05 53 13 00-0004 SF 3/4" x 3/16" Steel, Welded Grating	9.16	0.91
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.25	
For 304 Stainless Steel, Add	23.56	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	2.14	
For Crossbars At 2" O.C., Add	0.79	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.40	
05 53 13 00-0005 SF 1" x 1/8" Steel, Welded Grating	8.39	0.91
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.12	
For 304 Stainless Steel, Add	21.09	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	1.92	
For Crossbars At 2" O.C., Add	0.71	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.38	
05 53 13 00-0006 SF 1" x 3/16" Steel, Welded Grating	11.31	0.91
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.61	
For 304 Stainless Steel, Add	30.46	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	2.77	
For Crossbars At 2" O.C., Add	1.02	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.46	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0007	SF	1" x 1/4"	Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	14.23 0.22 2.11 39.84 3.62 1.34 0.16 -1.53	0.91
05 53 13 00-0008	SF	1-1/4" x 1/8"	Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	9.79 0.22 1.35 25.58 2.33 0.86 0.16 -1.42	0.91
05 53 13 00-0009	SF	1-1/4" x 3/16"	Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	13.34 0.22 1.96 36.98 3.36 1.24 0.16 -1.51	0.91
05 53 13 00-0010	SF	1-1/2" x 1/8"	Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	11.19 0.22 1.59 30.08 2.74 1.01 0.16 -1.45	0.91
05 53 13 00-0011	SF	1-1/2" x 3/16"	Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	15.88 0.22 2.32 43.82 3.99 1.47 0.16 -1.84	1.12
05 53 13 00-0012	SF	1-1/2" x 1/4"	Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	20.32 0.22 3.08 58.07 5.28 1.95 0.16 -1.95	1.12
05 53 13 00-0013	SF	1-3/4" x 3/16"	Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	18.05 0.22 2.69 50.78 4.62 1.71 0.16 -1.89	1.12
05 53 13 00-0014	SF	2" x 3/16"	Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	20.08 0.22 3.03 57.30 5.21 1.93 0.16 -1.94	1.12
05 53 13 00-0015	SF	2-1/4" x 3/16"	Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	22.23 0.22 3.40 64.20 5.84 2.16 0.16 -1.99	1.12

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0016 SF 2-1/2" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	24.25 0.22 3.74 70.68 6.43 2.38 0.16 -2.04	1.12
05 53 13 00-0017 Pressure Locked Grating (05 53 13) Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018 Steel, Pressure Locked Grating (05 53 13 00-0017) Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019 SF 3/4" x 1/8" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Set In Place Without Bolting Or Tack Welding, Deduct	12.65 0.22 1.78 20.26 3.16 1.17 -1.49	0.91
05 53 13 00-0020 SF 3/4" x 3/16" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Set In Place Without Bolting Or Tack Welding, Deduct	15.41 0.22 2.23 25.43 3.97 1.47 -1.56	0.91
05 53 13 00-0021 SF 1" x 1/8" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	13.83 0.22 1.97 22.47 3.51 1.30 0.16 -1.52	0.91
05 53 13 00-0022 SF 1" x 3/16" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 7/16" O.C., Add For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	18.58 0.22 2.75 31.36 24.30 4.89 1.81 0.16 -1.64	0.91
05 53 13 00-0023 SF 1-1/4" x 1/8" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	15.41 0.22 2.23 25.43 3.97 1.47 0.16 -1.56	0.91
05 53 13 00-0024 SF 1-1/4" x 3/16" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	20.77 0.22 3.11 35.46 5.53 2.05 0.16 -1.69	0.91
05 53 13 00-0025 SF 1-1/2" x 1/8" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	17.07 0.22 2.50 28.53 4.45 1.65 0.16 -1.60	0.91



Metals			05	05
Metal Fabrications			05 50	
Metal Gratings			05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0026	SF	1-1/2" x 3/16" Steel, Pressure Locked Grating.....	23.49	1.12	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.49		
		For 304 Stainless Steel, Add	39.78		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 7/16" O.C., Add	30.83		
		For Bearing Bars At 15/16" O.C., Add	6.21		
		For Crossbars At 2" O.C., Add	2.30		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.03		
05 53 13 00-0027	SF	1-3/4" x 3/16" Steel, Pressure Locked Grating.....	25.80	1.12	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.87		
		For 304 Stainless Steel, Add	44.10		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	6.88		
		For Crossbars At 2" O.C., Add	2.55		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.08		
05 53 13 00-0028	SF	2" x 3/16" Steel, Pressure Locked Grating.....	27.69	1.12	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.18		
		For 304 Stainless Steel, Add	47.64		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	7.43		
		For Crossbars At 2" O.C., Add	2.75		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.13		
05 53 13 00-0029	SF	2-1/4" x 3/16" Steel, Pressure Locked Grating.....	29.51	1.12	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.47		
		For 304 Stainless Steel, Add	51.04		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	7.97		
		For Crossbars At 2" O.C., Add	2.95		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.18		
05 53 13 00-0030	SF	2-1/2" x 3/16" Steel, Pressure Locked Grating.....	31.07	1.12	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.73		
		For 304 Stainless Steel, Add	53.96		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	8.42		
		For Crossbars At 2" O.C., Add	3.11		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.22		
05 53 13 00-0031		Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)			
		Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted in place, and in all sizes.			
05 53 13 00-0032	SF	3/4" x 1/8" Aluminum, Pressure Locked Grating.....	11.61	0.91	
		For Bearing Bars At 15/16" O.C., Add	2.86		
		For Crossbars At 2" O.C., Add	1.06		
		For Set In Place Without Bolting, Deduct	-1.46		
05 53 13 00-0033	SF	3/4" x 3/16" Aluminum, Pressure Locked Grating.....	15.63	0.91	
		For Bearing Bars At 15/16" O.C., Add	4.03		
		For Crossbars At 2" O.C., Add	1.49		
		For Set In Place Without Bolting, Deduct	-1.56		
05 53 13 00-0034	SF	1" x 1/8" Aluminum, Pressure Locked Grating.....	14.76	0.91	
		For Bearing Bars At 15/16" O.C., Add	3.78		
		For Crossbars At 2" O.C., Add	1.40		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.54		
05 53 13 00-0035	SF	1" x 3/16" Aluminum, Pressure Locked Grating.....	19.95	0.91	
		For Bearing Bars At 7/16" O.C., Add	26.29		
		For Bearing Bars At 15/16" O.C., Add	5.29		
		For Crossbars At 2" O.C., Add	1.96		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.67		
05 53 13 00-0036	SF	1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	17.04	0.91	
		For Bearing Bars At 15/16" O.C., Add	4.44		
		For Crossbars At 2" O.C., Add	1.64		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.60		
05 53 13 00-0037	SF	1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	22.70	0.91	
		For Bearing Bars At 15/16" O.C., Add	6.10		
		For Crossbars At 2" O.C., Add	2.26		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.74		
05 53 13 00-0038	SF	1-1/2" x 1/8" Aluminum, Pressure Locked Grating.....	19.19	0.91	
		For Bearing Bars At 15/16" O.C., Add	5.07		
		For Crossbars At 2" O.C., Add	1.88		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.65		

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0039	SF	1-1/2" x 3/16" Aluminum, Pressure Locked Grating	25.54	0.91
		For Bearing Bars At 7/16" O.C., Add	34.39	
		For Bearing Bars At 15/16" O.C., Add	6.93	
		For Crossbars At 2" O.C., Add	2.56	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-1.81	
05 53 13 00-0040	SF	1-3/4" x 3/16" Aluminum, Pressure Locked Grating	28.25	0.91
		For Bearing Bars At 15/16" O.C., Add	7.72	
		For Crossbars At 2" O.C., Add	2.85	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-1.88	
05 53 13 00-0041	SF	2" x 3/16" Aluminum, Pressure Locked Grating	31.47	0.91
		For Bearing Bars At 15/16" O.C., Add	8.66	
		For Crossbars At 2" O.C., Add	3.20	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-1.96	
05 53 13 00-0042	SF	2-1/4" x 3/16" Aluminum, Pressure Locked Grating	34.00	0.91
		For Bearing Bars At 15/16" O.C., Add	9.40	
		For Crossbars At 2" O.C., Add	3.48	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.02	
05 53 13 00-0043	SF	2-1/2" x 3/16" Aluminum, Pressure Locked Grating	37.01	0.91
		For Bearing Bars At 15/16" O.C., Add	10.28	
		For Crossbars At 2" O.C., Add	3.80	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.10	
05 53 13 00-0044		Swage Locked Grating (05 53 13) Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045		Steel, Swage Locked Grating (05 53 13 00-0044) Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046	SF	1" x 3/16" Steel, Swaged Grating	20.26	0.91
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	1.70	
		For 304 Stainless Steel, Add	30.57	
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
		For Bearing Bars At 15/16" O.C., Add	11.80	
		For Crossbars At 2" O.C., Add	1.48	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-1.68	
05 53 13 00-0047	SF	1-1/4" x 3/16" Steel, Swaged Grating	22.54	0.91
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	1.91	
		For 304 Stainless Steel, Add	34.35	
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
		For Bearing Bars At 15/16" O.C., Add	13.26	
		For Crossbars At 2" O.C., Add	1.66	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-1.74	
05 53 13 00-0048	SF	1-1/2" x 3/16" Steel, Swaged Grating	24.73	1.12
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	2.07	
		For 304 Stainless Steel, Add	37.31	
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
		For Bearing Bars At 15/16" O.C., Add	14.40	
		For Crossbars At 2" O.C., Add	1.80	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.06	
05 53 13 00-0049	SF	1-3/4" x 3/16" Steel, Swaged Grating	28.22	1.12
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	2.39	
		For 304 Stainless Steel, Add	43.09	
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
		For Bearing Bars At 15/16" O.C., Add	16.63	
		For Crossbars At 2" O.C., Add	2.08	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.14	
05 53 13 00-0050	SF	2" x 3/16" Steel, Swaged Grating	31.72	1.12
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	2.71	
		For 304 Stainless Steel, Add	48.89	
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
		For Bearing Bars At 15/16" O.C., Add	18.87	
		For Crossbars At 2" O.C., Add	2.36	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.23	



Metals			05	05
Metal Fabrications			05 50	
Metal Gratings			05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0051	SF		2-1/4" x 3/16" Steel, Swaged Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	35.20 0.22 3.03 54.66 21.10 2.64 0.16 -2.32	1.12
05 53 13 00-0052	SF		2-1/2" x 3/16" Steel, Swaged Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	38.71 0.22 3.36 60.48 23.35 2.92 0.16 -2.41	1.12
05 53 13 00-0053			Aluminum Grating, Type 6063, Swage Locked (05 53 13 00-0044) Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted in place, and in all sizes.		
05 53 13 00-0054	SF		1" x 1/8" Aluminum, Swaged Grating For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct	13.65 7.57 0.95 0.16 -1.52	0.91
05 53 13 00-0055	SF		1" x 3/16" Aluminum, Swaged Grating For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct	17.61 10.11 1.26 0.16 -1.61	0.91
05 53 13 00-0056	SF		1-1/4" x 1/8" Aluminum, Swaged Grating For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct	15.43 8.71 1.09 0.16 -1.56	0.91
05 53 13 00-0057	SF		1-1/4" x 3/16" Aluminum, Swaged Grating For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct	20.28 11.81 1.48 0.16 -1.68	0.91
05 53 13 00-0058	SF		1-1/2" x 1/8" Aluminum, Swaged Grating For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct	17.55 10.07 1.26 0.16 -1.61	0.91
05 53 13 00-0059	SF		1-1/2" x 3/16" Aluminum, Swaged Grating For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct	23.13 13.64 1.70 0.16 -1.75	0.91
05 53 13 00-0060	SF		1-3/4" x 3/16" Aluminum, Swaged Grating For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct	26.42 15.74 1.97 0.16 -1.83	0.91
05 53 13 00-0061	SF		2" x 3/16" Aluminum, Swaged Grating For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct	29.69 17.84 2.23 0.16 -1.92	0.91
05 53 13 00-0062	SF		2-1/4" x 3/16" Aluminum, Swaged Grating For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct	32.98 19.94 2.49 0.16 -2.00	0.91
05 53 13 00-0063	SF		2-1/2" x 3/16" Aluminum, Swaged Grating For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct	36.25 22.04 2.75 0.16 -2.08	0.91
05 53 13 00-0064			Riveted Grating (05 53 13) Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065			Steel, Riveted Grating (05 53 13 00-0064) Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0066	SF		3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....	37.90	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.73	
			For 304 Stainless Steel, Add	30.99	
			For 5/8" Clear Opening, Add	12.45	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.12	
05 53 13 00-0067	SF		3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....	44.50	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.05	
			For 304 Stainless Steel, Add	36.66	
			For 5/8" Clear Opening, Add	14.72	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.29	
05 53 13 00-0068	SF		1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....	40.94	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.88	
			For 304 Stainless Steel, Add	33.60	
			For 5/8" Clear Opening, Add	13.50	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.20	
05 53 13 00-0069	SF		1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....	47.02	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.17	
			For 304 Stainless Steel, Add	38.83	
			For 5/8" Clear Opening, Add	15.59	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.35	
05 53 13 00-0070	SF		1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating.....	43.46	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.00	
			For 304 Stainless Steel, Add	35.77	
			For 5/8" Clear Opening, Add	14.37	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.26	
05 53 13 00-0071	SF		1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating.....	51.70	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.39	
			For 304 Stainless Steel, Add	42.85	
			For 5/8" Clear Opening, Add	17.21	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.47	
05 53 13 00-0072	SF		1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating.....	46.29	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.11	
			For 304 Stainless Steel, Add	37.85	
			For 5/8" Clear Opening, Add	15.20	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.60	
05 53 13 00-0073	SF		1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating.....	55.11	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.54	
			For 304 Stainless Steel, Add	45.42	
			For 5/8" Clear Opening, Add	18.24	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.82	
05 53 13 00-0074	SF		1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating.....	59.61	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.75	
			For 304 Stainless Steel, Add	49.29	
			For 5/8" Clear Opening, Add	19.80	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.93	
05 53 13 00-0075	SF		2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating.....	69.65	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.24	
			For 304 Stainless Steel, Add	57.91	
			For 5/8" Clear Opening, Add	23.26	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.18	
05 53 13 00-0076	SF		2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating.....	73.15	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.40	
			For 304 Stainless Steel, Add	60.92	
			For 5/8" Clear Opening, Add	24.47	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.27	
05 53 13 00-0077	SF		2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating.....	76.27	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.55	
			For 304 Stainless Steel, Add	63.60	
			For 5/8" Clear Opening, Add	25.54	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.35	

05 53 13 00-0078 Aluminum, Riveted Grating (05 53 13 00-0064)
Note: 1" clear opening, bolted in place and in all sizes.



Metals			05	05
Metal Fabrications			05 50	
Metal Gratings			05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0079	SF		3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating.....	28.84	0.91
			For 5/8" Clear Opening, Add	9.32	
			For Set In Place Without Bolting, Deduct	-1.89	
05 53 13 00-0080	SF		3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating.....	34.19	0.91
			For 5/8" Clear Opening, Add	11.17	
			For Set In Place Without Bolting, Deduct	-2.03	
05 53 13 00-0081	SF		1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating.....	31.70	0.91
			For 5/8" Clear Opening, Add	10.31	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.97	
05 53 13 00-0082	SF		1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating.....	36.92	0.91
			For 5/8" Clear Opening, Add	12.11	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.10	
05 53 13 00-0083	SF		1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating.....	35.52	0.91
			For 5/8" Clear Opening, Add	11.63	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.06	
05 53 13 00-0084	SF		1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating.....	42.77	0.91
			For 5/8" Clear Opening, Add	14.13	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.24	
05 53 13 00-0085	SF		1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating.....	38.13	0.91
			For 5/8" Clear Opening, Add	12.53	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.13	
05 53 13 00-0086	SF		1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating.....	47.34	0.91
			For 5/8" Clear Opening, Add	15.70	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.36	
05 53 13 00-0087	SF		1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating.....	52.16	0.91
			For 5/8" Clear Opening, Add	17.37	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.48	
05 53 13 00-0088	SF		2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating.....	62.08	0.91
			For 5/8" Clear Opening, Add	20.79	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.73	
05 53 13 00-0089	SF		2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating.....	67.70	0.91
			For 5/8" Clear Opening, Add	22.73	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.87	
05 53 13 00-0090	SF		2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating.....	75.24	0.91
			For 5/8" Clear Opening, Add	25.33	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-3.05	

05 53 16 Plank Gratings (05 53)

05 53 16 00-0001 Gate-Lock Steel Plank Grating (05 53 16)

Note: Smooth or traction grip surface.

05 53 16 00-0002	SF		1-1/2" Height, 18 Gauge Steel Gate-Lock Plank Grating.....	10.11	0.70
			For Stair Tread Application, Add	1.22	
05 53 16 00-0003	SF		2-1/2" Height, 18 Gauge Steel Gate-Lock Plank Grating.....	10.86	0.87
			For Stair Tread Application, Add	1.35	
05 53 16 00-0004	SF		3" Height, 18 Gauge Steel Gate-Lock Plank Grating.....	11.46	0.96
			For Stair Tread Application, Add	1.43	
05 53 16 00-0005	SF		4" Height, 18 Gauge Steel Gate-Lock Plank Grating.....	12.52	1.04
			For Stair Tread Application, Add	1.56	
05 53 16 00-0006	SF		1-1/2" Height, 16 Gauge Steel Gate-Lock Plank Grating.....	12.27	0.79
			For Stair Tread Application, Add	1.46	
05 53 16 00-0007	SF		2-1/2" Height, 16 Gauge Steel Gate-Lock Plank Grating.....	13.12	0.96
			For Stair Tread Application, Add	1.60	
05 53 16 00-0008	SF		1-1/2" Height, 14 Gauge Steel Gate-Lock Plank Grating.....	15.03	0.91
			For Stair Tread Application, Add	1.78	
05 53 16 00-0009	SF		2-1/2" Height, 14 Gauge Steel Gate-Lock Plank Grating.....	16.08	1.12
			For Stair Tread Application, Add	1.94	
05 53 16 00-0010	SF		3" Height, 14 Gauge Steel Gate-Lock Plank Grating.....	17.34	1.41
			For Stair Tread Application, Add	2.16	
05 53 16 00-0011	SF		4" Height, 14 Gauge Steel Gate-Lock Plank Grating.....	19.14	1.57
			For Stair Tread Application, Add	2.39	

05 54 Metal Floor Plates (05 50)

05 54 00 00-0001 Steel Floor Plates (05 54)

05 54 00 00-0002	SF		16 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	11.25	1.08
05 54 00 00-0003	SF		14 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	12.80	1.08
05 54 00 00-0004	SF		12 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	15.92	1.08
05 54 00 00-0005	SF		1/8" Steel Raised Or Diamond Pattern Floor Plates.....	21.25	1.16
05 54 00 00-0006	SF		1/4" Steel Raised Or Diamond Pattern Floor Plates.....	26.84	1.24

05 Metals**05 50 Metal Fabrications****05 54 Metal Floor Plates**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 54 00 00-0007		Aluminum Alloy Floor Plates ^(05 54)		
05 54 00 00-0008	SF	0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	17.03	0.91
05 54 00 00-0009	SF	0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	19.54	1.08
05 54 00 00-0010	SF	0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	22.06	1.16
05 54 00 00-0011		Type 304 Stainless Steel Floor Plates ^(05 54)		
05 54 00 00-0012	SF	1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	26.91	1.24
05 54 00 00-0013	SF	3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	32.17	1.41
05 54 00 00-0014	SF	1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	41.66	1.65
05 55		Metal Stair Treads And Nosings ^(05 50)		
05 55 13		Metal Stair Treads ^(05 55)		
05 55 13 00-0001		Abrasive Cast Aluminum Stair Treads ^(05 55 13)		
		Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0002	LF	8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	42.51	5.10
		For 3/8" Thick, Add	8.59	
05 55 13 00-0003	LF	9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	46.55	5.10
		For 3/8" Thick, Add	9.60	
05 55 13 00-0004	LF	10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	50.59	5.10
		For 3/8" Thick, Add	10.61	
05 55 13 00-0005	LF	11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	54.65	5.10
		For 3/8" Thick, Add	11.62	
05 55 13 00-0006	LF	12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	58.67	5.10
		For 3/8" Thick, Add	12.63	
05 55 13 00-0007		Abrasive Cast Iron Stair Treads ^(05 55 13)		
		Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0008	LF	8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	58.20	5.10
05 55 13 00-0009	LF	9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	64.19	5.10
05 55 13 00-0010	LF	10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	70.20	5.10
05 55 13 00-0011	LF	11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	76.19	5.10
05 55 13 00-0012	LF	12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	82.20	5.10
05 55 13 00-0013		Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads ^(05 55 13)		
		Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0014	LF	6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	23.59	5.10
05 55 13 00-0015	LF	9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	27.25	5.10
05 55 13 00-0016	LF	11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	28.87	5.10
05 55 13 00-0017		Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads ^(05 55 13)		
		Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0018	LF	8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	33.70	5.10
		For Epoxy Sealed For Corrosive Environment, Add	2.54	
		For Two Color Tread, Add	1.91	
05 55 13 00-0019	LF	9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	34.01	5.10
		For Epoxy Sealed For Corrosive Environment, Add	2.54	
		For Two Color Tread, Add	1.91	
05 55 13 00-0020	LF	11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	40.60	5.10
		For Epoxy Sealed For Corrosive Environment, Add	2.54	
		For Two Color Tread, Add	1.91	
05 55 13 00-0021	LF	12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	46.38	5.10
		For Epoxy Sealed For Corrosive Environment, Add	2.54	
		For Two Color Tread, Add	1.91	
05 55 13 00-0022	LF	15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	53.91	5.10
		For Epoxy Sealed For Corrosive Environment, Add	2.54	
		For Two Color Tread, Add	1.91	
05 55 13 00-0023		Stair Landing Treads ^(05 55 13)		
05 55 13 00-0024		Abrasive Cast Aluminum Stair Landing Treads ^(05 55 13 00-0023)		
		Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025	SF	5/16" Thick, Abrasive Cast Aluminum Landing Treads	58.67	5.10
		For 3/8" Thick, Add	12.63	
05 55 13 00-0026		Abrasive Cast Iron Stair Landing Treads ^(05 55 13 00-0023)		
		Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027	SF	3/8" Thick, Abrasive Cast Iron Landing Treads.....	82.20	5.10



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Stair Treads And Nosings	05 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0028 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads (05 55 13 00-0023) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029 SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads For Epoxy Sealed For Corrosive Environment, Add	54.57 2.54	5.10
05 55 13 00-0030 Open Cast Iron Stair Tread (05 55 13) Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031 RSR 3'-6" Wide, Open Cast Iron Stair Tread..... For Closed Riser, Add	389.91 33.22	33.10
05 55 13 00-0032 RSR 4'-0" Wide, Open Cast Iron Stair Tread..... For Closed Riser, Add	440.31 37.39	38.07
05 55 13 00-0033 RSR 5'-0" Wide, Open Cast Iron Stair Tread..... For Closed Riser, Add	486.65 41.27	44.68
05 55 16 Metal Stair Nosings (05 55)		
05 55 16 00-0001 Abrasive Cast Aluminum Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... For 3/8" Thick, Add	18.58 3.26	3.48
05 55 16 00-0003 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... For 3/8" Thick, Add	22.49 4.23	3.48
05 55 16 00-0004 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... For 3/8" Thick, Add	31.19 6.41	3.48
05 55 16 00-0005 Abrasive Cast Iron Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... For 3/8" Thick, Add	21.43 3.97	3.48
05 55 16 00-0007 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... For 3/8" Thick, Add	26.24 5.17	3.48
05 55 16 00-0008 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... For 3/8" Thick, Add	35.75 7.55	3.48
05 55 16 00-0009 Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings (05 55 16) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010 LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	15.93	3.48
05 55 16 00-0011 LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	17.82	3.48
05 55 16 00-0012 LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	19.25	3.48
05 55 16 00-0013 LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	23.72	3.48
05 55 16 00-0014 LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	16.44	3.48
05 55 16 00-0015 LF 3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	18.05	3.48
05 55 16 00-0016 LF 4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	19.64	3.48
05 55 16 00-0017 LF 3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	18.67	3.48
05 56 Metal Castings (05 50)		
05 56 00 00-0001 Castings (05 56)		
05 56 00 00-0002 LB Up To 150 LB, Miscellaneous Castings, Light Section	3.18	0.41
05 56 00 00-0003 LB >150 LB, Miscellaneous Castings, Heavy Section.....	5.21	0.33
05 58 Formed Metal Fabrications (05 50)		
05 58 16 Formed Metal Enclosures (05 58)		
05 58 16 00-0001 Drip Pan (05 58 16)		
05 58 16 00-0002 SF Stainless Steel Drip Pan	65.00	5.00
05 58 16 00-0003 SF Galvanized Steel Drip Pan.....	64.24	5.00
05 58 16 00-0004 SF Aluminum Drip Pan.....	45.33	4.00
05 58 16 00-0005 SF Plastic Drip Pan	12.97	3.50
05 58 23 Formed Metal Guards (05 58)		
05 58 23 00-0001 Protective Guard Rails (05 58 23) Note: Includes painted finish.		
05 58 23 00-0002 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001) Note: Steel King Armor Guard.		
05 58 23 00-0003 Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0002) Note: Excludes posts. Includes fasteners.		
05 58 23 00-0004 EA 1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	122.09	16.69
05 58 23 00-0005 EA 2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	142.32	16.69

05 Metals**05 50 Metal Fabrications****05 58 Formed Metal Fabrications**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 58 23 00-0006	EA	3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	161.40	16.69
05 58 23 00-0007	EA	4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	181.62	16.69
05 58 23 00-0008	EA	5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	200.81	16.69
05 58 23 00-0009	EA	6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	225.68	16.69
05 58 23 00-0010	EA	7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	242.63	16.69
05 58 23 00-0011	EA	8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	268.87	16.69
05 58 23 00-0012	EA	9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	286.08	16.69
05 58 23 00-0013	EA	10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	298.38	16.69
05 58 23 00-0014		Posts For 2-Rib Guard Rails (05 58 23 00-0002)		
		Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0015	EA	12" Height, Single Rail Post For 2-Rib Guard Rails	248.81	34.75
05 58 23 00-0016	EA	42" Height, Triple Rail Post For 2-Rib Guard Rails	319.05	34.75
05 58 23 00-0017		3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)		
		Note: Steel King Steel Guard.		
05 58 23 00-0018		Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)		
		Note: Excludes posts. Includes fasteners.		
05 58 23 00-0019	EA	1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	134.28	16.69
05 58 23 00-0020	EA	2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	147.73	16.69
05 58 23 00-0021	EA	3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	164.51	16.69
05 58 23 00-0022	EA	4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	180.20	16.69
05 58 23 00-0023	EA	5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	198.35	16.69
05 58 23 00-0024	EA	6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	207.10	16.69
05 58 23 00-0025	EA	7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	228.14	16.69
05 58 23 00-0026	EA	8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	245.91	16.69
05 58 23 00-0027	EA	9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	264.77	16.69
05 58 23 00-0028	EA	10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	283.90	16.69
05 58 23 00-0029		Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)		
		Note: Excludes posts. Includes fasteners and lift-out mounting plate.		
05 58 23 00-0030	EA	1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	194.80	16.69
05 58 23 00-0031	EA	2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	209.56	16.69
05 58 23 00-0032	EA	3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	224.86	16.69
05 58 23 00-0033	EA	4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	242.63	16.69
05 58 23 00-0034	EA	5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	260.39	16.69
05 58 23 00-0035	EA	6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	274.88	16.69
05 58 23 00-0036	EA	7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	291.55	16.69
05 58 23 00-0037	EA	8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	310.41	16.69
05 58 23 00-0038	EA	9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	330.64	16.69
05 58 23 00-0039	EA	10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	348.40	16.69
05 58 23 00-0040		Posts For 3-Rib Guard Rails (05 58 23 00-0017)		
		Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0041	EA	18" Height, Single Rail Post For 3-Rib Guard Rails	220.82	34.75
05 58 23 00-0042	EA	42" Height, Double Rail Post For 3-Rib Guard Rails	277.78	34.75
05 58 23 00-0043		All-Welded, Protective Guards (05 58 23)		
		Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0044		All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0045	EA	36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	288.64	46.34
05 58 23 00-0046	EA	48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	302.30	46.34
05 58 23 00-0047	EA	36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	310.23	46.34
05 58 23 00-0048	EA	48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	321.98	46.34
05 58 23 00-0049	EA	36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	319.25	46.34
05 58 23 00-0050	EA	48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	333.74	46.34
05 58 23 00-0051	EA	36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	337.84	46.34
05 58 23 00-0052	EA	48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	342.48	46.34
05 58 23 00-0053	EA	48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	364.62	46.34
05 58 23 00-0054		Corner Style, All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0055	EA	24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	373.37	46.34
05 58 23 00-0056	EA	30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	389.77	46.34
05 58 23 00-0057	EA	24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	396.60	46.34
05 58 23 00-0058	EA	30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	430.22	46.34
05 58 23 00-0059		Warehouse Safety Bollards (05 58 23)		
		Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060	EA	24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	184.41	34.75
05 58 23 00-0061	EA	36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	211.42	34.75
05 58 23 00-0062	EA	42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	240.00	34.75
05 58 23 00-0063	EA	36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	247.82	34.75



		Metals	05
		Metal Fabrications	05 50
		Formed Metal Fabrications	05 58

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 58 23 00-0064	EA		42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	265.86	34.75

05 59 Metal Specialties (05 50)**05 59 65 Chain** (05 59)**05 59 65 00-0001 Alloy Steel Chain, Self Colored, Cut Length** (05 59 65)

Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.

05 59 65 00-0002	LF	3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	3.90	0.80
		<i>For Plastic Dipped, Add</i>	0.35	
05 59 65 00-0003	LF	1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	5.23	1.07
		<i>For Plastic Dipped, Add</i>	0.47	
05 59 65 00-0004	LF	3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	8.44	2.13
		<i>For Plastic Dipped, Add</i>	0.63	
05 59 65 00-0005	LF	1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	13.61	3.60
		<i>For Plastic Dipped, Add</i>	0.96	
05 59 65 00-0006	LF	5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	22.98	6.08
		<i>For Plastic Dipped, Add</i>	1.62	
05 59 65 00-0007	LF	3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	32.24	8.53
		<i>For Plastic Dipped, Add</i>	2.28	
05 59 65 00-0008	LF	7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	43.59	10.66
		<i>For Plastic Dipped, Add</i>	3.34	
05 59 65 00-0009	LF	1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	62.57	14.21
		<i>For Plastic Dipped, Add</i>	5.12	
05 59 65 00-0010	LF	1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	101.07	21.33
		<i>For Plastic Dipped, Add</i>	8.76	

END OF SECTION 05

05	05	Metals
	05 50	Metal Fabrications
	05 59	Metal Specialties



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Thermal And Moisture Protection		07
Dampproofing And Waterproofing		07 10
Dampproofing		07 11

07

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

07 Thermal And Moisture Protection

07 10 Dampproofing And Waterproofing⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost. Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of hydrostatic pressure.

07 11 Dampproofing^(07 10)

07 11 13 Bituminous Dampproofing^(07 11)

07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray^(07 11 13)

07 11 13 00-0002	CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	122.38
07 11 13 00-0003	CSF 2 Coats, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	192.48

07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On^(07 11 13)

07 11 13 00-0005	CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On	206.99
07 11 13 00-0006	CSF Primer And 2 Coats, Fibrous Asphalt Dampproofing, Troweled On	315.79

07 11 13 00-0007 Asphaltic Paint Dampproofing^(07 11 13)

07 11 13 00-0008	CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On	99.87
07 11 13 00-0009	CSF 2 Coats, Asphaltic Paint Dampproofing, Brushed On	183.97

07 11 19 Sheet Dampproofing^(07 11)

07 11 19 00-0001 Neoprene^(07 11 19)

07 11 19 00-0002	SF 1/16" Patch Neoprene Roof (5-20 SF)	28.59

07 13 Sheet Waterproofing^(07 10)

07 13 13 Bituminous Sheet Waterproofing^(07 13)

07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped^(07 13 13)

07 13 13 00-0002	CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	215.94	85.39
	For 30 LB Felt, Add	33.87	
	For Application To Horizontal Surfaces, Deduct	-25.62	
07 13 13 00-0003	CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	263.20	96.07
	For 30 LB Felt, Add	53.30	
	For Application To Horizontal Surfaces, Deduct	-28.82	
07 13 13 00-0004	CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	310.44	106.74
	For 30 LB Felt, Add	72.73	
	For Application To Horizontal Surfaces, Deduct	-32.02	
07 13 13 00-0005	CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	357.69	117.41
	For 30 LB Felt, Add	92.15	
	For Application To Horizontal Surfaces, Deduct	-35.22	
07 13 13 00-0006	CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	404.95	128.08
	For 30 LB Felt, Add	111.59	
	For Application To Horizontal Surfaces, Deduct	-38.43	

07 13 13 00-0007 Asphalt Coated Protective Board^(07 13 13)

07 13 13 00-0008	CSF 1/8" Asphalt Coated Protective Board	212.00	84.38
	For Application To Horizontal Surfaces, Deduct	-28.14	
07 13 13 00-0009	CSF 1/4" Asphalt Coated Protective Board	286.93	87.63
	For Application To Horizontal Surfaces, Deduct	-29.21	
07 13 13 00-0010	CSF 3/8" Asphalt Coated Protective Board	377.28	91.31
	For Application To Horizontal Surfaces, Deduct	-30.43	
07 13 13 00-0011	CSF 1/2" Asphalt Coated Protective Board	422.94	94.99
	For Application To Horizontal Surfaces, Deduct	-31.67	

07 13 53 Elastomeric Sheet Waterproofing^(07 13)

07 13 53 00-0001 Rubberized Membrane Sheet^(07 13 53)

07 13 53 00-0002	SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	6.02	0.87
	For Floor Surfaces, Deduct	-0.87	

07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM)^(07 13 53)

07 13 53 00-0004	CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	414.71	122.68
	For Application To Horizontal Surfaces, Deduct	-36.80	
07 13 53 00-0005	CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	492.89	122.68
	For Application To Horizontal Surfaces, Deduct	-36.80	

07 Thermal And Moisture Protection**07 10 Dampproofing And Waterproofing****07 13 Sheet Waterproofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0006 Butyl Sheet Waterproofing (07 13 53)		
07 13 53 00-0007 CSF 1/32" Butyl Sheet Waterproofing.....	99.17	30.67
For Joint Taping, Add	12.03	
For Each Additional Ply, Add	72.49	
For Application To Horizontal Surfaces, Deduct	-4.61	
07 13 53 00-0008 CSF 1/16" Butyl Sheet Waterproofing.....	120.95	30.67
For Joint Taping, Add	13.12	
For Each Additional Ply, Add	87.74	
For Application To Horizontal Surfaces, Deduct	-4.61	
07 13 53 00-0009 Butyl With Nylon (07 13 53)		
07 13 53 00-0010 CSF 1/32" Butyl Elastomeric Waterproofing With Nylon.....	111.62	30.67
For Joint Taping, Add	12.65	
For Each Additional Ply, Add	81.21	
For Application To Horizontal Surfaces, Deduct	-4.61	
07 13 53 00-0011 CSF 1/16" Butyl Elastomeric Waterproofing With Nylon.....	125.62	30.67
For Joint Taping, Add	13.35	
For Each Additional Ply, Add	91.01	
For Application To Horizontal Surfaces, Deduct	-4.61	
07 13 53 00-0012 Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013 CSF 1/32" Neoprene Sheet Waterproofing.....	183.24	30.67
For Joint Taping, Add	16.23	
For Each Additional Ply, Add	131.34	
For Application To Horizontal Surfaces, Deduct	-4.61	
07 13 53 00-0014 CSF 1/16" Neoprene Sheet Waterproofing.....	275.94	30.67
For Joint Taping, Add	20.86	
For Each Additional Ply, Add	196.23	
For Application To Horizontal Surfaces, Deduct	-4.61	
07 13 53 00-0015 Neoprene With Nylon (07 13 53)		
07 13 53 00-0016 CSF 1/32" Neoprene Elastomeric Waterproofing With Nylon.....	192.92	30.67
For Joint Taping, Add	16.71	
For Each Additional Ply, Add	138.12	
For Application To Horizontal Surfaces, Deduct	-4.61	
07 13 53 00-0017 CSF 1/16" Neoprene Elastomeric Waterproofing With Nylon.....	291.39	30.67
For Joint Taping, Add	21.64	
For Each Additional Ply, Add	207.05	
For Application To Horizontal Surfaces, Deduct	-4.61	
07 13 53 00-0018 Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019 CSF 4 Mil Polyethylene Vapor Barrier.....	29.02	11.30
For Joint Taping, Add	7.21	
For Each Additional Ply, Add	22.82	
For Application To Horizontal Surfaces, Deduct	-3.75	
07 13 53 00-0020 CSF 6 Mil Polyethylene Vapor Barrier.....	29.60	11.30
For Joint Taping, Add	7.23	
For Each Additional Ply, Add	23.22	
For Application To Horizontal Surfaces, Deduct	-3.75	
07 13 53 00-0021 CSF 10 Mil Polyethylene Vapor Barrier.....	44.30	11.30
For Joint Taping, Add	7.97	
For Each Additional Ply, Add	33.51	
For Application To Horizontal Surfaces, Deduct	-3.75	
07 13 53 00-0022 CSF 60 Mil Polyethylene Vapor Barrier With Bentonite.....	144.33	11.30
Note: Includes seam tape, liquid mastic, anchors and termination bar.		
For Each Additional Ply, Add	103.81	
For Application To Horizontal Surfaces, Deduct	-4.17	
07 13 53 00-0023 Plastic Vapor Barrier (PVC) (07 13 53)		
07 13 53 00-0024 CSF 10 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	49.66	12.51
For Joint Taping, Add	8.24	
For Each Additional Ply, Add	37.26	
For Application To Horizontal Surfaces, Deduct	-3.75	
07 13 53 00-0025 CSF 20 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	68.52	12.97
For Joint Taping, Add	9.40	
For Each Additional Ply, Add	50.56	
For Application To Horizontal Surfaces, Deduct	-3.89	
07 13 53 00-0026 CSF 30 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	94.06	13.43
For Joint Taping, Add	10.88	
For Each Additional Ply, Add	68.53	
For Application To Horizontal Surfaces, Deduct	-4.03	
07 13 53 00-0027 Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028 CSF Tu-Tuf 4, 4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints.....	34.52	11.58



Thermal And Moisture Protection		07
Dampproofing And Waterproofing		07 10
Fluid-Applied Waterproofing		07 14

07

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 14 Fluid-Applied Waterproofing (07 10)				
07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)				
07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)				
07 14 13 00-0002	SF	90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	1.65	
		Note: Includes primer.		
		For Application To Horizontal Surfaces, Deduct	-0.16	
		For Reinforcing Fabric, Add	0.35	
07 14 13 00-0003	SF	125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	1.91	
		Note: Includes primer.		
		For Application To Horizontal Surfaces, Deduct	-0.17	
		For Reinforcing Fabric, Add	0.35	
07 14 16 Cold Fluid-Applied Waterproofing (07 14)				
07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)				
07 14 16 00-0002	SF	60 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.23	
		For Application To Horizontal Surfaces, Deduct	-0.37	
07 14 16 00-0003	SF	90 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.73	
		For Application To Horizontal Surfaces, Deduct	-0.39	
07 14 16 00-0004	SF	120 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	4.27	
		For Application To Horizontal Surfaces, Deduct	-0.41	
07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)				
07 14 16 00-0006	SF	Chlorosulfonated Polyethylene Polymer 1 Part Solution, 15 Mil, Finish Coat.....	2.22	
07 14 16 00-0007 Copolymer Compound (07 14 16)				
07 14 16 00-0008	SF	Fluid Elastomeric Copolymer Compound For Slabs 32 Mil.....	3.46	
07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)				
07 14 16 00-0010	CSF	Fluid Neoprene, 1/8" Fiberglass Reinforced.....	397.99	
		For Application To Horizontal Surfaces, Deduct	-44.69	
07 14 16 00-0011	CSF	Fluid Neoprene, 50 Mil, 4 Coats.....	828.99	
		For Application To Horizontal Surfaces, Deduct	-87.67	
07 14 16 00-0012	CSF	Fluid Neoprene, 90 Mil, 4 Coats.....	1,365.30	
		For Application To Horizontal Surfaces, Deduct	-131.44	
07 16 Cementitious And Reactive Waterproofing (07 10)				
07 16 13 Polymer Modified Cement Waterproofing (07 16)				
07 16 13 00-0001	SF	Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	3.61	
		Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.		
07 16 16 Crystalline Waterproofing (07 16)				
07 16 16 00-0001	SF	Crystalline Cementitious Waterproofing. 2 Coats (Xypex Concentrate).....	4.24	
07 16 19 Metal Oxide Waterproofing (07 16)				
07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)				
		Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat.		
07 16 19 00-0002	CSF	Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	370.12	
		For Application To Horizontal Surfaces, Deduct	-48.65	
07 19 Water Repellents (07 10)				
07 19 13 Acrylic Sealer (07 19)				
		Note: Per coat.		
07 19 13 00-0001	SF	Acrylic Sealer, Spray On Concrete.....	1.89	
07 19 13 00-0002	SF	Acrylic Sealer, Spray On Concrete Block/Brick.....	2.25	
07 19 13 00-0003	SF	Acrylic Sealer, Spray On Stone.....	2.47	
07 19 16 Silane Water Repellents (07 19)				
07 19 16 00-0001 Silane Concrete Sealer (07 19 16)				
07 19 16 00-0002	SF	Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB).....	0.44	
07 19 16 00-0003	SF	Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB).....	0.66	

07 Thermal And Moisture Protection**07 10 Dampproofing And Waterproofing****07 19 Water Repellents**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST
07 19 16 00-0004		Silane/Siloxane Concrete Sealer ^(07 19 16)				
07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)			0.77	
		Note: 40% silane, alcohol based.				
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)			1.11	
		Note: 40% silane, alcohol based.				
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)			0.32	
		Note: 200 SF/GAL				
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)			0.46	

END OF SECTION 07



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

2

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

09 Finishes

09 90 Painting And Coating⁽⁰⁹⁾

Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in.

09 91 Painting^(09 90)

09 91 13 Exterior Painting^(09 91)

Note: Acrylic latex paint unless otherwise stated.

09 91 13 00-0001 Paint Exterior Walls/Siding^(09 91 13)

09 91 13 00-0002 Paint Exterior Brick Walls^(09 91 13 00-0001)

09 91 13 00-0003	SF	Paint Exterior Brick Walls, 1 Coat Filler, Brush Work.....	0.84
		For Oil Based Paint, Add	0.05
		For Work >20', Add	0.18
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.56
		For >100 To 250, Add	0.26
		For >250 To 500, Add	0.11
		For >2,500 To 5,000, Deduct	-0.04
		For >5,000 To 10,000, Deduct	-0.08
		For >10,000 To 20,000, Deduct	-0.13
		For >20,000, Deduct	-0.17
09 91 13 00-0004	SF	Paint Exterior Brick Walls, 1 Coat Paint, Brush Work.....	1.20
		For Oil Based Paint, Add	0.07
		For Work >20', Add	0.27
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.82
		For >100 To 250, Add	0.39
		For >250 To 500, Add	0.17
		For >2,500 To 5,000, Deduct	-0.06
		For >5,000 To 10,000, Deduct	-0.12
		For >10,000 To 20,000, Deduct	-0.18
		For >20,000, Deduct	-0.24
09 91 13 00-0005	SF	Paint Exterior Brick Walls, 2 Coats Paint, Brush Work	1.73
		For Oil Based Paint, Add	0.10
		For Work >20', Add	0.36
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	1.12
		For >100 To 250, Add	0.53
		For >250 To 500, Add	0.23
		For >2,500 To 5,000, Deduct	-0.09
		For >5,000 To 10,000, Deduct	-0.17
		For >10,000 To 20,000, Deduct	-0.26
		For >20,000, Deduct	-0.35
09 91 13 00-0006	SF	Paint Exterior Brick Walls, 1 Coat Filler, Brush/Roller Work	0.54
		For Oil Based Paint, Add	0.03
		For Work >20', Add	0.11
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.33
		For >100 To 250, Add	0.16
		For >250 To 500, Add	0.07
		For >2,500 To 5,000, Deduct	-0.03
		For >5,000 To 10,000, Deduct	-0.05
		For >10,000 To 20,000, Deduct	-0.08
		For >20,000, Deduct	-0.11
09 91 13 00-0007	SF	Paint Exterior Brick Walls, 1 Coat Paint, Brush/Roller Work.....	0.91
		For Oil Based Paint, Add	0.05
		For Work >20', Add	0.18
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.57
		For >100 To 250, Add	0.27
		For >250 To 500, Add	0.12
		For >2,500 To 5,000, Deduct	-0.05
		For >5,000 To 10,000, Deduct	-0.09
		For >10,000 To 20,000, Deduct	-0.14
		For >20,000, Deduct	-0.18
09 91 13 00-0008	SF	Paint Exterior Brick Walls, 2 Coats Paint, Brush/Roller Work	1.33
		For Oil Based Paint, Add	0.08
		For Work >20', Add	0.25
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.80
		For >100 To 250, Add	0.38
		For >250 To 500, Add	0.17
		For >2,500 To 5,000, Deduct	-0.07
		For >5,000 To 10,000, Deduct	-0.13
		For >10,000 To 20,000, Deduct	-0.20
		For >20,000, Deduct	-0.27

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0009	SF		Paint Exterior Brick Walls, 1 Coat Filler, Sprayed	0.48	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.28	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.10	
09 91 13 00-0010	SF		Paint Exterior Brick Walls, 1 Coat Paint, Sprayed.....	0.46	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.07	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.23	
			For >100 To 250, Add	0.11	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.09	
09 91 13 00-0011	SF		Paint Exterior Brick Walls, 2 Coats Paint, Sprayed.....	1.02	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0012			Paint Exterior Concrete Walls (09 91 13 00-0001)		
09 91 13 00-0013	SF		Paint Exterior Concrete Walls, 1 Coat Filler, Brush Work.....	0.71	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.07	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0014	SF		Paint Exterior Concrete Walls, 1 Coat Paint, Brush Work.....	0.78	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0015	SF		Paint Exterior Concrete Walls, 2 Coats Paint, Brush Work.....	1.47	
			For Oil Based Paint, Add	0.08	
			For Epoxy Paint, Add	0.12	
			For Work >20', Add	0.33	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.01	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	
09 91 13 00-0016	SF		Paint Exterior Concrete Walls, 1 Coat Filler, Brush/Roller Work.....	0.56	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	



		Finishes	09	09
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0017	SF		Paint Exterior Concrete Walls, 1 Coat Paint, Brush/Roller Work	0.66	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0018	SF		Paint Exterior Concrete Walls, 2 Coats Paint, Brush/Roller Work.....	1.10	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.10	
			For Work >20', Add	0.24	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 13 00-0019	SF		Paint Exterior Concrete Walls, 1 Coat Filler, Sprayed	0.43	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.25	
			For >100 To 250, Add	0.12	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 20,000, Deduct	-0.06	
			For >20,000, Deduct	-0.09	
09 91 13 00-0020	SF		Paint Exterior Concrete Walls, 1 Coat Paint, Sprayed	0.39	
			For Oil Based Paint, Add	0.02	
			For Epoxy Paint, Add	0.05	
			For Work >20', Add	0.07	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.23	
			For >100 To 250, Add	0.11	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 20,000, Deduct	-0.06	
			For >20,000, Deduct	-0.08	
09 91 13 00-0021	SF		Paint Exterior Concrete Walls, 2 Coats Paint, Sprayed	0.68	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.09	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0022			Paint Exterior Concrete Block Walls (09 91 13 00-0001)		
09 91 13 00-0023			Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0022)		
09 91 13 00-0024	SF		Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Brush Work	0.98	
			For Work >20', Add	0.20	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0025	SF		Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Brush	1.13	
			For Work >20', Add	0.24	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0026 SF Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Brush Work 1.97		
For Work >20', Add	0.40	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.26	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.39	
09 91 13 00-0027 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Brush/Roller Work 0.79		
For Work >20', Add	0.15	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0028 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Brush/Roller Work.....0.88		
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 91 13 00-0029 SF Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Brush/Roller Work 1.55		
For Work >20', Add	0.30	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.94	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0030 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Sprayed 0.56		
For Work >20', Add	0.08	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.28	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0031 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Sprayed 0.63		
For Work >20', Add	0.10	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.13	
09 91 13 00-0032 SF Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Sprayed.....1.19		
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.61	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0033 Paint Exterior Concrete Block Walls, Acrylic Latex Paint (09 91 13 00-0022)		
09 91 13 00-0034 SF Paint Exterior Concrete Block Walls, 1 Coat Filler, Brush Work 0.92		
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.20	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.62	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	



		Finishes	09	09
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0035	SF		Paint Exterior Concrete Block Walls, 1 Coat Paint, Brush Work.....	1.08	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.23	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.22	
09 91 13 00-0036	SF		Paint Exterior Concrete Block Walls, 2 Coats Paint, Brush Work.....	1.96	
			For Oil Based Paint, Add	0.11	
			For Work >20', Add	0.41	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.27	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.39	
09 91 13 00-0037	SF		Paint Exterior Concrete Block Walls, Texture Coat, Brush Work.....	1.20	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.26	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.79	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0038	SF		Paint Exterior Concrete Block Walls, 1 Coat Filler, Brush/Roller Work.....	0.72	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0039	SF		Paint Exterior Concrete Block Walls, 1 Coat Paint, Brush/Roller Work.....	0.91	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0040	SF		Paint Exterior Concrete Block Walls, 2 Coats Paint, Brush/Roller Work.....	1.54	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.30	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.96	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.31	
09 91 13 00-0041	SF		Paint Exterior Concrete Block Walls, Texture Coat, Brush/Roller Work.....	1.02	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.66	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0042	SF		Paint Exterior Concrete Block Walls, 1 Coat Filler, Sprayed.....	0.60	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0043	SF		Paint Exterior Concrete Block Walls, 1 Coat Paint, Sprayed	0.62	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0044	SF		Paint Exterior Concrete Block Walls, 2 Coats Paint, Sprayed.....	1.00	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0045	SF		Paint Exterior Concrete Block Walls, Texture Coat, Sprayed	0.82	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0046			Paint Exterior Metal Walls (09 91 13 00-0001)		
09 91 13 00-0047			Paint Exterior Galvanized Walls (09 91 13 00-0046)		
			Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0048	SF		Paint Exterior Galvanized Wall Surfaces, 1 Coat Primer, Brush Work.....	0.81	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0049	SF		Paint Exterior Galvanized Wall Surfaces, 1 Coat Paint, Brush Work.....	0.91	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0050	SF		Paint Exterior Galvanized Wall Surfaces, 2 Coats Paint, Brush Work	1.62	
			For Work >20', Add	0.36	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	



		Finishes	09	09
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0051	SF		Paint Exterior Galvanized Walls, 1 Coat Primer, Brush/Roller Work.....	0.60	
			For Work >20', Add	0.13	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0052	SF		Paint Exterior Galvanized Walls, 1 Coat Paint, Brush/Roller Work.....	0.70	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0053	SF		Paint Exterior Galvanized Walls, 2 Coats Paint, Brush/Roller Work	1.28	
			For Work >20', Add	0.28	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	
09 91 13 00-0054	SF		Paint Exterior Galvanized Walls, 1 Coat Primer, Sprayed	0.38	
			For Work >20', Add	0.07	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.22	
			For >100 To 250, Add	0.11	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 20,000, Deduct	-0.06	
			For >20,000, Deduct	-0.08	
09 91 13 00-0055	SF		Paint Exterior Galvanized Walls, 1 Coat Paint, Sprayed.....	0.55	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0056	SF		Paint Exterior Galvanized Walls, 2 Coats Paint, Sprayed	0.88	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0057 Paint Exterior Aluminum And Aluminum Alloy Walls (09 91 13 00-0046)					
			Note: Alkyd enamel paint.		
09 91 13 00-0058	SF		Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 1 Coat Primer, Brush Work.....	0.81	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0059	SF		Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 1 Coat Paint, Brush Work.....	0.91	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0060	SF		Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 2 Coats Paint, Brush Work	1.62	
			For Work >20', Add	0.36	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	
09 91 13 00-0061	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Primer, Brush/Roller Work	0.62	
			For Work >20', Add	0.13	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0062	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Paint, Brush/Roller Work	0.73	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0063	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 2 Coats Paint, Brush/Roller Work	1.34	
			For Work >20', Add	0.28	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0064	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Primer, Sprayed	0.44	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.26	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.09	
09 91 13 00-0065	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Paint, Sprayed	0.55	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0066	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 2 Coats Paint, Sprayed	0.88	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0067			Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0046)		
09 91 13 00-0068	LF		Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 1 Coat Primer, Per LF Of Stack	10.41	
			For Work >20', Add	2.47	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	7.48	
			For >100 To 250, Add	3.51	
			For >250 To 500, Add	1.51	
			For >2,500 To 5,000, Deduct	-0.52	
			For >5,000 To 10,000, Deduct	-1.04	
			For >10,000 To 20,000, Deduct	-1.56	
			For >20,000, Deduct	-2.08	



		Finishes	09	09
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0069	LF		Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 1 Coat Paint, Per LF Of Stack	11.58	
			For Work >20', Add	2.74	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	8.31	
			For >100 To 250, Add	3.90	
			For >250 To 500, Add	1.68	
			For >2,500 To 5,000, Deduct	-0.58	
			For >5,000 To 10,000, Deduct	-1.16	
			For >10,000 To 20,000, Deduct	-1.74	
			For >20,000, Deduct	-2.32	
09 91 13 00-0070	LF		Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 2 Coats Paint, Per LF Of Stack	21.70	
			For Work >20', Add	5.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	15.62	
			For >100 To 250, Add	7.32	
			For >250 To 500, Add	3.15	
			For >2,500 To 5,000, Deduct	-1.09	
			For >5,000 To 10,000, Deduct	-2.17	
			For >10,000 To 20,000, Deduct	-3.26	
			For >20,000, Deduct	-4.34	
09 91 13 00-0071 Paint Exterior Corrugated Metal Walls (09 91 13 00-0046)					
09 91 13 00-0072	SF		Paint Exterior Corrugated Metal Walls, 1 Coat Primer, Sprayed.....	0.49	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.10	
09 91 13 00-0073	SF		Paint Exterior Corrugated Metal Walls, 1 Coat Paint, Sprayed.....	0.72	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0074	SF		Paint Exterior Corrugated Metal Walls, 2 Coats Paint, Sprayed	1.13	
			For Work >20', Add	0.22	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0075 Paint Exterior Stucco Walls (09 91 13 00-0001)					
09 91 13 00-0076	SF		Paint Exterior Stucco Wall Surfaces 1 Coat Primer, Brush Work.....	1.24	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.28	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 13 00-0077	SF		Paint Exterior Stucco Wall Surfaces 1 Coat Paint, Brush Work.....	1.36	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.31	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0078	SF		Paint Exterior Stucco Wall Surfaces, 2 Coats Paint, Brush Work	2.53	
			For Oil Based Paint, Add	0.14	
			For Work >20', Add	0.56	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.72	
			For >100 To 250, Add	0.81	
			For >250 To 500, Add	0.35	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.38	
			For >20,000, Deduct	-0.51	
09 91 13 00-0079	SF		Paint Exterior Stucco Walls, 1 Coat Primer, Brush/Roller Work.....	0.93	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.20	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0080	SF		Paint Exterior Stucco Walls, 1 Coat Paint, Brush/Roller Work.....	1.05	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.23	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0081	SF		Paint Exterior Stucco Walls, 2 Coats Paint, Brush/Roller Work	1.93	
			For Oil Based Paint, Add	0.11	
			For Work >20', Add	0.41	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.27	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.39	
09 91 13 00-0082	SF		Paint Exterior Stucco Walls, 1 Coat Primer, Sprayed	0.60	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.37	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0083	SF		Paint Exterior Stucco Walls, 1 Coat Paint, Sprayed.....	0.73	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0084	SF		Paint Exterior Stucco Walls, 2 Coats Paint, Sprayed.....	1.44	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.28	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	

09 91 13 00-0085 Paint Exterior Wood Siding (09 91 13 00-0001)

09 91 13 00-0086 Paint Exterior Smooth Wood Siding (09 91 13 00-0085)
Note: Includes tongue and groove, beveled, drop or board and batten siding.



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0087	SF		Paint Exterior Wood Smooth Siding, 1 Coat Primer, Brush Work.....	0.89	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0088	SF		Paint Exterior Wood Smooth Siding, 1 Coat Paint, Brush Work	0.94	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0089	SF		Paint Exterior Wood Smooth Siding, 2 Coats Paint, Brush Work.....	1.68	
			For Oil Based Paint, Add	0.10	
			For Work >20', Add	0.36	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	1.11	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.34	
09 91 13 00-0090	SF		Paint Exterior Smooth Wood Siding, 1 Coat Primer, Brush/Roller Work.....	0.68	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.13	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0091	SF		Paint Exterior Smooth Wood Siding, 1 Coat Paint, Brush/Roller Work	0.76	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0092	SF		Paint Exterior Smooth Wood Siding, 2 Coats Paint, Brush/Roller Work	1.41	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.28	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0093	SF		Paint Exterior Smooth Wood Siding, 1 Coat Primer, Sprayed	0.49	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.27	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.10	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0094	SF		Paint Exterior Smooth Wood Siding, 1 Coat Paint, Sprayed.....	0.60	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0095	SF		Paint Exterior Smooth Wood Siding, 2 Coats Paint, Sprayed.....	0.97	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 91 13 00-0096 Paint Exterior Rough Wood Siding (09 91 13 00-0085)					
			Note: Includes shingles, shakes or rough sawn siding.		
09 91 13 00-0097	SF		Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 1 Coat Primer, Brush Work.....	1.39	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.31	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.95	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0098	SF		Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 1 Coat Paint, Brush Work.....	1.41	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.32	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0099	SF		Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 2 Coats Paint, Brush Work.....	2.60	
			For Oil Based Paint, Add	0.14	
			For Work >20', Add	0.59	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.80	
			For >100 To 250, Add	0.85	
			For >250 To 500, Add	0.37	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.26	
			For >10,000 To 20,000, Deduct	-0.39	
			For >20,000, Deduct	-0.52	
09 91 13 00-0100	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Primer, Brush/Roller Work.....	1.19	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.23	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0101	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Paint, Brush/Roller Work.....	1.29	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.26	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	



		Finishes	09	09
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0102	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 2 Coats Paint, Brush/Roller Work.....	2.36	
			For Oil Based Paint, Add	0.14	
			For Work >20', Add	0.46	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.45	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.47	
09 91 13 00-0103	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Primer, Sprayed.....	0.77	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.15	
09 91 13 00-0104	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Paint, Sprayed	0.89	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0105	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 2 Coats Paint, Sprayed	1.66	
			For Oil Based Paint, Add	0.11	
			For Work >20', Add	0.30	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.98	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0106 Paint Exterior Vinyl Siding (09 91 13 00-0001)					
09 91 13 00-0107	SF		Paint Exterior Vinyl Siding, 1 Coat Primer, Brush Work.....	0.76	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0108	SF		Paint Exterior Vinyl Siding, 1 Coat Paint, Brush Work	0.84	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0109	SF		Paint Exterior Vinyl Siding, 2 Coats Paint, Brush Work	1.53	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.31	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.96	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.31	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0110	SF		Paint Exterior Vinyl Siding, 1 Coat Primer, Brush/Roller Work.....	0.67	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.13	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0111	SF		Paint Exterior Vinyl Siding, 1 Coat Paint, Brush/Roller Work.....	0.67	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.13	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0112	SF		Paint Exterior Vinyl Siding, 2 Coats Paint, Brush/Roller Work.....	1.25	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.23	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 13 00-0113	SF		Paint Exterior Vinyl Siding, 1 Coat Primer, Sprayed.....	0.53	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.28	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0114	SF		Paint Exterior Vinyl Siding, 1 Coat Paint, Sprayed.....	0.60	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0115	SF		Paint Exterior Vinyl Siding, 2 Coats Paint, Sprayed.....	1.17	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.23	
09 91 13 00-0116			Paint Exterior Ceilings (09 91 13)		
09 91 13 00-0117			Paint Exterior Concrete Ceilings (09 91 13 00-0116)		
09 91 13 00-0118	SF		Paint Exterior Concrete Ceiling, 1 Coat Filler, Brush Work.....	0.81	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.07	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	



		Finishes	09	2
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0119	SF		Paint Exterior Concrete Ceiling, 1 Coat Paint, Brush Work.....	0.90	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.07	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0120	SF		Paint Exterior Concrete Ceiling, 2 Coats Paint, Brush Work.....	1.59	
			For Oil Based Paint, Add	0.09	
			For Epoxy Paint, Add	0.13	
			For Work >20', Add	0.36	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	
09 91 13 00-0121	SF		Paint Exterior Concrete Ceiling, 1 Coat Filler, Brush/Roller Work.....	0.62	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.13	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0122	SF		Paint Exterior Concrete Ceiling, 1 Coat Paint, Brush/Roller Work	0.70	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0123	SF		Paint Exterior Concrete Ceiling, 2 Coats Paint, Brush/Roller Work	1.28	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.11	
			For Work >20', Add	0.28	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	
09 91 13 00-0124	SF		Paint Exterior Concrete Ceiling, 1 Coat Filler, Sprayed	0.45	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.27	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.09	
09 91 13 00-0125	SF		Paint Exterior Concrete Ceiling, 1 Coat Paint, Sprayed.....	0.54	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0126	SF		Paint Exterior Concrete Ceiling, 2 Coats Paint, Sprayed	0.86	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.10	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0127			Paint Exterior Wood Ceilings (09 91 13 00-0116)		
09 91 13 00-0128			Paint Exterior Smooth Wood Ceilings (09 91 13 00-0127)		
09 91 13 00-0129	SF		Paint Exterior Wood Smooth Ceiling, 1 Coat Primer, Brush Work	0.99	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.66	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0130	SF		Paint Exterior Wood Smooth Ceiling, 1 Coat Paint, Brush Work	1.04	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.23	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0131	SF		Paint Exterior Wood Smooth Ceiling, 2 Coats Paint, Brush Work	1.89	
			For Oil Based Paint, Add	0.11	
			For Work >20', Add	0.41	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.27	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.28	
			For >20,000, Deduct	-0.38	
09 91 13 00-0132	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Primer, Brush/Roller Work	0.78	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0133	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Paint, Brush/Roller Work	0.86	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0134	SF		Paint Exterior Smooth Wood Ceiling, 2 Coats Paint, Brush/Roller Work	1.51	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.31	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.96	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.30	



		Finishes	09	09
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0135	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Primer, Sprayed	0.56	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0136	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Paint, Sprayed.....	0.56	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0137	SF		Paint Exterior Smooth Wood Ceiling, 2 Coats Paint, Sprayed.....	1.02	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0138 Paint Exterior Rough Wood Ceilings (09 91 13 00-0127)					
09 91 13 00-0139	SF		Paint Exterior Wood Rough Ceiling, 1 Coat Primer, Brush Work.....	1.48	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.32	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.30	
09 91 13 00-0140	SF		Paint Exterior Wood Rough Ceiling, 1 Coat Paint, Brush Work	1.56	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.36	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.31	
09 91 13 00-0141	SF		Paint Exterior Wood Rough Ceiling, 2 Coats Paint, Brush Work	2.70	
			For Oil Based Paint, Add	0.15	
			For Work >20', Add	0.61	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.88	
			For >100 To 250, Add	0.88	
			For >250 To 500, Add	0.38	
			For >2,500 To 5,000, Deduct	-0.14	
			For >5,000 To 10,000, Deduct	-0.27	
			For >10,000 To 20,000, Deduct	-0.41	
			For >20,000, Deduct	-0.54	
09 91 13 00-0142	SF		Paint Exterior Rough Wood Ceiling, 1 Coat Primer, Brush/Roller Work	1.29	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.26	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0143	SF		Paint Exterior Rough Wood Ceiling, 1 Coat Paint, Brush/Roller Work.....	1.39	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.28	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0144	SF		Paint Exterior Rough Wood Ceiling, 2 Coats Paint, Brush/Roller Work.....	2.46	
			For Oil Based Paint, Add	0.15	
			For Work >20', Add	0.48	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.53	
			For >100 To 250, Add	0.73	
			For >250 To 500, Add	0.32	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.37	
			For >20,000, Deduct	-0.49	
09 91 13 00-0145	SF		Paint Exterior Rough Wood Ceiling, 1 Coat Primer, Sprayed.....	0.89	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0146	SF		Paint Exterior Rough Wood Ceiling, 1 Coat Paint, Sprayed.....	0.99	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0147	SF		Paint Exterior Rough Wood Ceiling, 2 Coats Paint, Sprayed.....	1.78	
			For Oil Based Paint, Add	0.11	
			For Work >20', Add	0.33	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.07	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.36	
09 91 13 00-0148			Paint Exterior Metal Ceilings (09 91 13 00-0116)		
09 91 13 00-0149			Paint Exterior Galvanized Ceilings (09 91 13 00-0148)		
			Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0150	SF		Paint Exterior Galvanized Ceiling, 1 Coat Primer, Brush Work.....	0.91	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0151	SF		Paint Exterior Galvanized Ceiling, 1 Coat Paint, Brush Work.....	1.01	
			For Work >20', Add	0.23	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	



		Finishes	09	09
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0152	SF		Paint Exterior Galvanized Ceiling, 2 Coats Paint, Brush Work	1.83	
			For Work >20', Add	0.41	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	1.26	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.37	
09 91 13 00-0153	SF		Paint Exterior Galvanized Ceiling, 1 Coat Primer, Brush/Roller Work	0.70	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0154	SF		Paint Exterior Galvanized Ceiling, 1 Coat Paint, Brush/Roller Work	0.80	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0155	SF		Paint Exterior Galvanized Ceiling, 2 Coats Paint, Brush/Roller Work	1.38	
			For Work >20', Add	0.31	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0156	SF		Paint Exterior Galvanized Ceiling, 1 Coat Primer, Sprayed	0.55	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0157	SF		Paint Exterior Galvanized Ceiling, 1 Coat Paint, Sprayed	0.65	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.42	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0158	SF		Paint Exterior Galvanized Ceiling, 2 Coats Paint, Sprayed	0.99	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0159			Paint Exterior Aluminum And Aluminum Alloy Ceilings (09 91 13 00-0148)		
			Note: Alkyd enamel paint.		
09 91 13 00-0160	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush Work	0.91	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20':		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0161 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush Work	1.01	
For Work >20', Add	0.23	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0162 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush Work	1.83	
For Work >20', Add	0.41	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.26	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.37	
09 91 13 00-0163 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.73	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0164 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.83	
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.17	
09 91 13 00-0165 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush/Roller Work	1.44	
For Work >20', Add	0.31	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0166 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Sprayed	0.55	
For Work >20', Add	0.11	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0167 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Sprayed.....	0.55	
For Work >20', Add	0.11	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0168 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Sprayed.....	0.99	
For Work >20', Add	0.19	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	

09 91 13 00-0169 Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0148)



		Finishes	09	2
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0170	SF		Paint Exterior Corrugated Metal Ceiling, 1 Coat Primer, Sprayed.....	0.61	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0171	SF		Paint Exterior Corrugated Metal Ceiling, 1 Coat Paint, Sprayed.....	0.72	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0172	SF		Paint Exterior Corrugated Metal Ceiling, 2 Coats Paint, Sprayed.....	1.27	
			For Work >20', Add	0.26	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 13 00-0173 Paint Exterior Floors (09 91 13)					
09 91 13 00-0174 Paint Exterior Concrete Floors (09 91 13 00-0173)					
09 91 13 00-0175	SF		Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Brush Work.....	0.61	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0176	SF		Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Brush Work.....	0.69	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0177	SF		Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Brush Work.....	1.28	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.11	
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	
09 91 13 00-0178	SF		Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Brush/Roller Work.....	0.49	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.05	
			For Up To 100, Add	0.31	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.10	
09 91 13 00-0179	SF		Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Brush/Roller Work.....	0.59	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.05	
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0180 SF Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Brush/Roller Work	0.96	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.10	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0181 SF Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Sprayed	0.34	
For Oil Based Paint, Add	0.02	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.18	
For >100 To 250, Add	0.09	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.05	
For >20,000, Deduct	-0.07	
09 91 13 00-0182 SF Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Sprayed	0.43	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.26	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.06	
For >20,000, Deduct	-0.09	
09 91 13 00-0183 SF Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Sprayed	0.74	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.10	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0184 SF Paint Exterior Concrete Floors And Decks, 1 Coat Non Slip Paint, Brush/Roller Work	1.38	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0185 SF Paint Exterior Concrete Floors And Decks, 1 Coat Anti-Slip, Single Component Epoxy Coating, Brush/Roller Work	3.07	
For Up To 100, Add	0.77	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.31	
For >10,000 To 20,000, Deduct	-0.46	
For >20,000, Deduct	-0.61	
09 91 13 00-0186 SF Paint Exterior Concrete Floors And Decks, 1 Coat Anti-Slip High Performance Epoxy Coating, Brush/Roller Work	3.77	
For Up To 100, Add	0.87	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.19	
For >5,000 To 10,000, Deduct	-0.38	
For >10,000 To 20,000, Deduct	-0.57	
For >20,000, Deduct	-0.75	
09 91 13 00-0187 Paint Exterior Wood Floors (09 91 13 00-0173)		
09 91 13 00-0188 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Brush Work	0.76	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0189 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Brush Work	0.84	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	



		Finishes	09	09
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0190	SF		Paint Exterior Wood Floors And Decks, 2 Coats Paint, Brush Work.....	1.57	
			For Oil Based Paint, Add	0.09	
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 13 00-0191	SF		Paint Exterior Wood Floors And Decks, 1 Coat Primer, Brush/Roller Work.....	0.68	
			For Oil Based Paint, Add	0.04	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0192	SF		Paint Exterior Wood Floors And Decks, 1 Coat Paint, Brush/Roller Work.....	0.76	
			For Oil Based Paint, Add	0.05	
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0193	SF		Paint Exterior Wood Floors And Decks, 2 Coats Paint, Brush/Roller Work.....	1.21	
			For Oil Based Paint, Add	0.08	
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0194	SF		Paint Exterior Wood Floors And Decks, 1 Coat Primer, Sprayed.....	0.45	
			For Oil Based Paint, Add	0.03	
			For Up To 100, Add	0.27	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.09	
09 91 13 00-0195	SF		Paint Exterior Wood Floors And Decks, 1 Coat Paint, Sprayed.....	0.56	
			For Oil Based Paint, Add	0.03	
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0196	SF		Paint Exterior Wood Floors And Decks, 2 Coats Paint, Sprayed.....	0.91	
			For Oil Based Paint, Add	0.06	
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0197	SF		Paint Exterior Wood Floors And Decks, 1 Coat Non Slip Paint, Brush Work.....	1.49	
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.30	
09 91 13 00-0198	SF		Paint Exterior Wood Floors And Decks, 1 Coat Non Slip Epoxy Coating, Brush Work.....	3.88	
			For Up To 100, Add	0.95	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.19	
			For >5,000 To 10,000, Deduct	-0.39	
			For >10,000 To 20,000, Deduct	-0.58	
			For >20,000, Deduct	-0.78	
09 91 13 00-0199			Paint Site Work (09 91 13) Note: Tasks can be used for exterior or interior applications.		
09 91 13 00-0200			Paint Structural Steel (09 91 13 00-0199)		
09 91 13 00-0201			Paint Structural Steel, Brush Work (09 91 13 00-0200)		

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0202	SF	Paint Structural Steel, 1 Field Coat Primer, Brush/Roller Work	0.78	
		For Up To 100, Add	0.55	
		For >100 To 250, Add	0.26	
		For >250 To 500, Add	0.11	
		For Epoxy Paint, Add	0.06	
09 91 13 00-0203	SF	Paint Structural Steel, 1 Field Coat Paint, Brush/Roller Work.....	0.68	
		For Up To 100, Add	0.47	
		For >100 To 250, Add	0.22	
		For >250 To 500, Add	0.10	
		For Epoxy Paint, Add	0.05	
09 91 13 00-0204 Paint Structural Steel, Spray Work (09 91 13 00-0200)				
09 91 13 00-0205	SF	Paint Structural Steel, 1 Field Coat Primer, Spray Work.....	0.51	
		For Electrostatic Painting, Add	0.06	
		For Up To 100, Add	0.35	
		For >100 To 250, Add	0.16	
		For >250 To 500, Add	0.07	
		For Epoxy Paint, Add	0.04	
09 91 13 00-0206	SF	Paint Structural Steel, 1 Field Coat Paint, Spray Work	0.40	
		For Electrostatic Painting, Add	0.05	
		For Up To 100, Add	0.26	
		For >100 To 250, Add	0.13	
		For >250 To 500, Add	0.05	
		For Epoxy Paint, Add	0.04	
09 91 13 00-0207 Paint Metal Decking, Beams And Bar Joist (09 91 13 00-0200)				
09 91 13 00-0208	SF	Paint Exposed Metal Decking, 1 Coat Primer, Sprayed	0.59	
		For Up To 100, Add	0.41	
		For >100 To 250, Add	0.19	
		For >250 To 500, Add	0.08	
		For Epoxy Paint, Add	0.05	
09 91 13 00-0209	SF	Paint Exposed Metal Decking, 1 Coat Paint, Sprayed	0.59	
		For Up To 100, Add	0.41	
		For >100 To 250, Add	0.19	
		For >250 To 500, Add	0.08	
		For Epoxy Paint, Add	0.05	
09 91 13 00-0210	SF	Paint Exposed Metal Decking, 2 Coats Paint, Sprayed	0.97	
		For Up To 100, Add	0.65	
		For >100 To 250, Add	0.31	
		For >250 To 500, Add	0.13	
		For Epoxy Paint, Add	0.09	
09 91 13 00-0211	SF	Paint Metal Beams And Bar Joists, 1 Coat Primer, Brush/Roller Work.....	0.90	
		For Up To 100, Add	0.60	
		For >100 To 250, Add	0.29	
		For >250 To 500, Add	0.12	
		For Epoxy Paint, Add	0.08	
09 91 13 00-0212	SF	Paint Metal Beams And Bar Joists, 1 Coat Paint, Brush/Roller Work	0.91	
		For Up To 100, Add	0.62	
		For >100 To 250, Add	0.29	
		For >250 To 500, Add	0.13	
		For Epoxy Paint, Add	0.08	
09 91 13 00-0213	SF	Paint Metal Beams And Bar Joists, 2 Coats Paint, Brush/Roller Work	1.68	
		For Up To 100, Add	1.13	
		For >100 To 250, Add	0.54	
		For >250 To 500, Add	0.23	
		For Epoxy Paint, Add	0.15	
09 91 13 00-0214	SF	Paint Metal Beams And Bar Joists, 1 Coat Primer, Sprayed	0.70	
		For Up To 100, Add	0.47	
		For >100 To 250, Add	0.22	
		For >250 To 500, Add	0.10	
		For Epoxy Paint, Add	0.06	
09 91 13 00-0215	SF	Paint Metal Beams And Bar Joists, 1 Coat Paint, Sprayed	0.70	
		For Up To 100, Add	0.47	
		For >100 To 250, Add	0.22	
		For >250 To 500, Add	0.10	
		For Epoxy Paint, Add	0.06	
09 91 13 00-0216	SF	Paint Metal Beams And Bar Joists, 2 Coats Paint, Sprayed	1.14	
		For Up To 100, Add	0.75	
		For >100 To 250, Add	0.35	
		For >250 To 500, Add	0.15	
		For Epoxy Paint, Add	0.11	
09 91 13 00-0217 Paint Steel Pipes (09 91 13 00-0199)				
		Note: Includes pipe, tubes, rails, conduit, etc.		
09 91 13 00-0218	LF	Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 1 Coat Primer.....	1.36	
		For Electrostatic Painting, Add	0.15	
		For Epoxy Paint, Add	0.10	
09 91 13 00-0219	LF	Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 1 Coat Primer.....	1.53	
		For Electrostatic Painting, Add	0.17	
		For Epoxy Paint, Add	0.11	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0220 LF Paint Steel Pipes 4" Diameter, 1 Coat Primer.....	1.72	
For Electrostatic Painting, Add	0.19	
For Epoxy Paint, Add	0.12	
09 91 13 00-0221 LF Paint Steel Pipes 6" To 8" Diameter, 1 Coat Primer	2.15	
For Electrostatic Painting, Add	0.24	
For Epoxy Paint, Add	0.15	
09 91 13 00-0222 LF Paint Steel Pipes 10" To 12" Diameter 1 Coat Primer	2.74	
For Electrostatic Painting, Add	0.30	
For Epoxy Paint, Add	0.19	
09 91 13 00-0223 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 1 Coat Paint.....	1.36	
For Electrostatic Painting, Add	0.15	
For Epoxy Paint, Add	0.10	
09 91 13 00-0224 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 1 Coat Paint.....	1.53	
For Electrostatic Painting, Add	0.17	
For Epoxy Paint, Add	0.11	
09 91 13 00-0225 LF Paint Steel Pipes 4" Diameter, 1 Coat Paint.....	1.72	
For Electrostatic Painting, Add	0.19	
For Epoxy Paint, Add	0.12	
09 91 13 00-0226 LF Paint Steel Pipes 6" To 8" Diameter, 1 Coat Paint.....	2.15	
For Electrostatic Painting, Add	0.24	
For Epoxy Paint, Add	0.15	
09 91 13 00-0227 LF Paint Steel Pipes 10" To 12" Diameter 1 Coat Paint.....	2.74	
For Electrostatic Painting, Add	0.30	
For Epoxy Paint, Add	0.19	
09 91 13 00-0228 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 2 Coats	2.68	
For Electrostatic Painting, Add	0.31	
For Epoxy Paint, Add	0.21	
09 91 13 00-0229 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 2 Coats	3.05	
For Electrostatic Painting, Add	0.34	
For Epoxy Paint, Add	0.22	
09 91 13 00-0230 LF Paint Steel Pipes 4" Diameter, 2 Coats	3.29	
For Electrostatic Painting, Add	0.37	
For Epoxy Paint, Add	0.24	
09 91 13 00-0231 LF Paint Steel Pipes 6" To 8" Diameter, 2 Coats	4.16	
For Electrostatic Painting, Add	0.46	
For Epoxy Paint, Add	0.30	
09 91 13 00-0232 LF Paint Steel Pipes 10" To 12" Diameter, 2 Coats	5.10	
For Electrostatic Painting, Add	0.57	
For Epoxy Paint, Add	0.37	
09 91 13 00-0233 Paint Fencing (09 91 13 00-0199)		
Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0234 SF Paint Existing Chain Link Fence, 1 Coat Paint, Brush/Roller.....	0.67	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
09 91 13 00-0235 SF Paint Existing Chain Link Fence, 2 Coats Paint, Brush/Roller	1.24	
For Epoxy Paint, Add	0.10	
For Up To 100, Add	0.86	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
09 91 13 00-0236 SF Paint Existing Chain Link Fence, 1 Coat Paint, Sprayed	0.51	
For Epoxy Paint, Add	0.05	
For Electrostatic Painting, Add	0.06	
For Up To 100, Add	0.34	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
09 91 13 00-0237 SF Paint Existing Chain Link Fence, 2 Coats Paint, Sprayed	0.94	
For Epoxy Paint, Add	0.09	
For Electrostatic Painting, Add	0.12	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
09 91 13 00-0238 SF Paint Wrought Iron Fence, 1 Coat Primer, Brush/Roller	0.58	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
09 91 13 00-0239 SF Paint Wrought Iron Fence, 1 Coat, Brush/Roller.....	0.56	
For Epoxy Paint, Add	0.04	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
09 91 13 00-0240 SF Paint Wrought Iron Fence, Each Additional Coat, Brush/Roller.....	0.37	
For Epoxy Paint, Add	0.03	
For Up To 100, Add	0.25	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
09 91 13 00-0241 SF Paint Picket Fence, 1 Coat Primer, Brush/Roller	0.88	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0242 SF Paint Picket Fence, 1 Coat, Brush/Roller.....	0.88	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
09 91 13 00-0243 SF Paint Picket Fence, Each Additional Coat, Brush/Roller.....	0.62	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.43	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
09 91 13 00-0244 SF Paint Wood Fences 1 Coat, Brush/Roller.....	0.61	
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
09 91 13 00-0245 SF Paint Wood Fences 2 Coats, Brush/Roller.....	1.09	
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
09 91 13 00-0246 SF Paint Wood Fences 1 Coat, Sprayed.....	0.43	
For Up To 100, Add	0.26	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.05	
09 91 13 00-0247 SF Paint Wood Fences 2 Coats, Sprayed.....	0.80	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
09 91 13 00-0248 Paint Metal Louvers (09 91 13 00-0199)		
09 91 13 00-0249 SF Paint Ventilation Louver, SF Of Opening Area, 1 Coat Primer, Brush/Roller Work.....	1.16	
For Electrostatic Painting, Add	0.13	
09 91 13 00-0250 SF Paint Ventilation Louver, SF Of Opening Area, 1 Coat Alkyd, Brush/Roller Work.....	1.16	
For Electrostatic Painting, Add	0.13	
09 91 13 00-0251 SF Paint Ventilation Louver, SF Of Opening Area, 2 Coats Alkyd, Brush/Roller Work.....	2.36	
For Electrostatic Painting, Add	0.26	
09 91 13 00-0252 Paint Ladders (09 91 13 00-0199)		
09 91 13 00-0253 LF Paint Ladders, 1 Coat Alkyd Primer, Brush/Roller Work.....	3.35	
For Epoxy Paint, Add	0.18	
09 91 13 00-0254 LF Paint Ladders, 1 Coat Alkyd Enamel, Brush/Roller Work.....	3.75	
For Epoxy Paint, Add	0.20	
09 91 13 00-0255 LF Paint Ladders, 2 Coats Alkyd Enamel, Brush/Roller Work.....	7.43	
For Epoxy Paint, Add	0.39	
09 91 13 00-0256 Paint Handrails (09 91 13 00-0199)		
09 91 13 00-0257 LF Paint Hand Rail And Bracket, 1 Rail, 1 Coat Alkyd Primer, Brush/Roller Work.....	1.29	
For Epoxy Paint, Add	0.08	
09 91 13 00-0258 LF Paint Hand Rail And Bracket, 1 Rail, 1 Coat Alkyd Enamel, Brush/Roller Work.....	1.44	
For Epoxy Paint, Add	0.09	
09 91 13 00-0259 LF Paint Hand Rail And Bracket, 1 Rail, 2 Coats Alkyd Enamel, Brush/Roller Work.....	2.41	
For Epoxy Paint, Add	0.14	
09 91 13 00-0260 LF Paint Pipe Rail And Pickets, 1 Rail, 1 Coat Alkyd Primer, Brush/Roller Work.....	1.94	
For Epoxy Paint, Add	0.12	
09 91 13 00-0261 LF Paint Pipe Rail And Pickets, 1 Rail, 1 Coat Alkyd Enamel, Brush/Roller Work.....	2.17	
For Epoxy Paint, Add	0.13	
09 91 13 00-0262 LF Paint Pipe Rail And Pickets, 1 Rail, 2 Coats Alkyd Enamel, Brush/Roller Work.....	3.84	
For Epoxy Paint, Add	0.22	
09 91 13 00-0263 LF Paint Pipe Rail And Pickets, 2 Rails, 1 Coat Alkyd Primer, Brush/Roller Work.....	2.13	
For Epoxy Paint, Add	0.12	
09 91 13 00-0264 LF Paint Pipe Rail And Pickets, 2 Rails, 1 Coat Alkyd Enamel, Brush/Roller Work.....	2.38	
For Epoxy Paint, Add	0.14	
09 91 13 00-0265 LF Paint Pipe Rail And Pickets, 2 Rails, 2 Coats Alkyd Enamel, Brush/Roller Work.....	4.12	
For Epoxy Paint, Add	0.23	
09 91 13 00-0266 LF Paint Balustrades, 1 Coat Alkyd Primer, Brush/Roller Work.....	1.30	
For Epoxy Paint, Add	0.10	
09 91 13 00-0267 LF Paint Balustrades, 1 Coat Alkyd Enamel, Brush/Roller Work.....	1.45	
For Epoxy Paint, Add	0.11	
09 91 13 00-0268 LF Paint Balustrades, 2 Coats Alkyd Enamel, Brush/Roller Work.....	2.61	
For Epoxy Paint, Add	0.20	
09 91 13 00-0269 Paint Grating (09 91 13 00-0199)		
09 91 13 00-0270 SF Paint Gratings And Frames, 1 Coat Primer, Brush/Roller Work.....	2.41	
For Epoxy Paint, Add	0.14	
09 91 13 00-0271 SF Paint Gratings And Frames, 1 Coat Paint, Brush/Roller Work.....	2.42	
For Epoxy Paint, Add	0.14	
09 91 13 00-0272 SF Paint Gratings And Frames, 2 Coats Paint, Brush/Roller Work.....	3.58	
For Epoxy Paint, Add	0.22	
09 91 13 00-0273 Other Site Work Painting (09 91 13 00-0199)		



		Finishes	09	09
		Painting And Coating	09 90	
		Painting	09 91	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0274		Paint Flagpoles (09 91 13 00-0273)		
09 91 13 00-0275	EA	Paint Steel Flagpole, 20' High, 1 Coat Paint.....	157.94	
09 91 13 00-0276	EA	Paint Steel Flagpole, 30' High, 1 Coat Paint.....	211.52	
09 91 13 00-0277	EA	Paint Steel Flagpole, 40' High, 1 Coat Paint.....	265.13	
09 91 13 00-0278	EA	Paint Steel Flagpole, 50' High, 1 Coat Paint.....	318.74	
09 91 13 00-0279	EA	Paint Steel Flagpole, 70' High, 1 Coat Paint.....	415.03	
09 91 13 00-0280	EA	Paint Steel Flagpole, 80' High, 1 Coat Paint.....	467.28	
09 91 13 00-0281	EA	Paint Steel Flagpole, 90' High, 1 Coat Paint.....	519.54	
09 91 13 00-0282		Paint Lattice Or Trellis (09 91 13 00-0273)		
09 91 13 00-0283	SF	Paint Wood Lattice Or Trellis 1 Coat, Spray Per Side.....	1.15	
		For Up To 100, Add	0.80	
		For >100 To 250, Add	0.38	
		For >250 To 500, Add	0.16	
09 91 13 00-0284	SF	Paint Wood Lattice Or Trellis 2 Coats, Spray Per Side.....	2.14	
		For Up To 100, Add	1.49	
		For >100 To 250, Add	0.70	
		For >250 To 500, Add	0.30	
09 91 13 00-0285		Equipment And Tanks (09 91 13 00-0199)		
09 91 13 00-0286		Valves, Primer And Finish Coats (09 91 13 00-0285)		
09 91 13 00-0287	EA	Prime And Paint 4" And Smaller Valve.....	22.60	
09 91 13 00-0288	EA	Prime And Paint 6" To 10" Valve.....	27.36	
09 91 13 00-0289	EA	Prime And Paint 12" To 18" Valve.....	36.28	
09 91 13 00-0290	EA	Prime And Paint 20" To 24" Valve.....	49.35	
09 91 13 00-0291	EA	Prime And Paint >24" To 36" Valve.....	67.18	
09 91 13 00-0292	EA	Prime And Paint >36" To 48" Valve.....	90.39	
09 91 13 00-0293		Pumps And Motors. Primer And Finish Coats (09 91 13 00-0285)		
09 91 13 00-0294	EA	Prime And Paint Pump Under 1 HP.....	68.40	
09 91 13 00-0295	EA	Prime And Paint Pump, 1 HP To 5 HP.....	88.06	
09 91 13 00-0296	EA	Prime And Paint Pump, >5 HP To 10 HP.....	103.56	
09 91 13 00-0297	EA	Prime And Paint Pump, >10 HP To 20 HP.....	114.31	
09 91 13 00-0298	EA	Prime And Paint Pump, >20 HP To 30 HP.....	133.36	
09 91 13 00-0299	EA	Prime And Paint Pump, >30 HP To 50 HP.....	152.42	
09 91 13 00-0300	EA	Prime And Paint Pump, >50 HP To 75 HP.....	167.33	
09 91 13 00-0301	EA	Prime And Paint Pump, >75 HP.....	190.54	
09 91 13 00-0302		Storage Tanks (09 91 13 00-0285)		
09 91 13 00-0303	SF	Paint Storage Tank, Exterior Surface, 1 Coat Primer, Roller.....	0.80	
09 91 13 00-0304	SF	Paint Storage Tank, Exterior Surface, 1 Coat Paint, Roller.....	1.00	
09 91 13 00-0305	SF	Paint Storage Tank, Exterior Surface, 2 Coats Paint, Roller.....	1.88	
09 91 13 00-0306	SF	Paint Storage Tank, Interior Surface, 1 Coat Primer, Roller.....	1.14	
09 91 13 00-0307	SF	Paint Storage Tank, Interior Surface, 1 Coat Paint, Roller.....	1.40	
09 91 13 00-0308	SF	Paint Storage Tank, Interior Surface, 2 Coats Paint, Roller.....	2.65	
09 91 13 00-0309	SF	Paint Storage Tank, Exterior Surface, 1 Coat Primer, Spray.....	0.74	
09 91 13 00-0310	SF	Paint Storage Tank, Exterior Surface, 1 Coat Paint, Spray.....	0.82	
09 91 13 00-0311	SF	Paint Storage Tank, Exterior Surface, 2 Coats Paint, Spray.....	1.56	
09 91 13 00-0312	SF	Paint Storage Tank, Interior Surface, 1 Coat Primer, Spray.....	0.89	
09 91 13 00-0313	SF	Paint Storage Tank, Interior Surface, 1 Coat Paint, Spray.....	1.09	
09 91 13 00-0314	SF	Paint Storage Tank, Interior Surface, 2 Coats Paint, Spray.....	2.09	
09 91 13 00-0315		Paint Exterior Stairs (09 91 13)		
09 91 13 00-0316		Paint Exterior Concrete Stairs (09 91 13 00-0315)		
09 91 13 00-0317	RSR	Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	14.69	
09 91 13 00-0318	RSR	Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work.....	14.69	
09 91 13 00-0319	RSR	Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work.....	18.01	
09 91 13 00-0320	RSR	Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work.....	27.57	
09 91 13 00-0321	RSR	Paint Exterior Concrete Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work.....	29.37	
09 91 13 00-0322		Paint Exterior Metal Stairs (09 91 13 00-0315)		
09 91 13 00-0323	RSR	Paint Exterior Metal Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	7.39	
		For Oil Based Paint, Add	0.38	
09 91 13 00-0324	RSR	Paint Exterior Metal Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work.....	7.39	
		For Oil Based Paint, Add	0.38	
09 91 13 00-0325	RSR	Paint Exterior Metal Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work.....	14.81	
		For Oil Based Paint, Add	0.76	
09 91 13 00-0326		Paint Exterior Wood Stairs (09 91 13 00-0315)		
09 91 13 00-0327	RSR	Paint Exterior Wood Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	7.51	
09 91 13 00-0328	RSR	Paint Exterior Wood Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work.....	7.51	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0329 RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work	10.83	
09 91 13 00-0330 RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work	20.39	
09 91 13 00-0331 RSR Paint Exterior Wood Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work	15.03	
09 91 13 00-0332 Paint Exterior Stair Nosing (09 91 13 00-0315)		
09 91 13 00-0333 LF Paint Exterior Yellow Stair Safety Strip, Up To 2", Non Slip, Brush Work	1.45	
09 91 13 00-0334 Paint Exterior Trim (09 91 13)		
09 91 13 00-0335 Paint Exterior Metal Trim And Gutters (09 91 13 00-0334)		
09 91 13 00-0336 SF Paint Exterior Exposed Metal Trim, 1 Coat Primer, Brush Work	0.99	
09 91 13 00-0337 SF Paint Exterior Exposed Metal Trim, 1 Coat Paint, Brush Work	0.99	
09 91 13 00-0338 SF Paint Exterior Exposed Metal Trim, 2 Coats Paint, Brush Work	1.78	
09 91 13 00-0339 SF Paint Exterior Metal Trim, 1 Coat Primer, Brush/Roller Work	0.78	
09 91 13 00-0340 SF Paint Exterior Metal Trim, 1 Coat Paint, Brush/Roller Work	0.88	
09 91 13 00-0341 SF Paint Exterior Metal Trim, 2 Coats Paint, Brush/Roller Work	1.57	
09 91 13 00-0342 LF Paint Exterior Gutter And Downspout, 1 Coat Paint, Brush Work	1.45	
09 91 13 00-0343 LF Paint Exterior Gutter And Downspout, 2 Coats Paint, Brush Work	2.02	
09 91 13 00-0344 Paint Exterior Wood Trim (09 91 13 00-0334)		
09 91 13 00-0345 SF Paint Exterior Wood Trim, 1 Coat Primer, Brush Work	1.39	
For Oil Based Paint, Add	0.08	
09 91 13 00-0346 SF Paint Exterior Wood Trim, 1 Coat Paint, Brush Work	1.51	
For Oil Based Paint, Add	0.09	
09 91 13 00-0347 SF Paint Exterior Wood Trim, 2 Coats Paint, Brush Work	2.73	
For Oil Based Paint, Add	0.16	
09 91 13 00-0348 SF Paint Exterior Wood Trim, 1 Coat Primer, Brush/Roller Work	1.09	
For Oil Based Paint, Add	0.06	
09 91 13 00-0349 SF Paint Exterior Wood Trim, 1 Coat Paint, Brush/Roller Work	1.21	
For Oil Based Paint, Add	0.07	
09 91 13 00-0350 SF Paint Exterior Wood Trim, 2 Coats Paint, Brush/Roller Work	2.25	
For Oil Based Paint, Add	0.13	
09 91 13 00-0351 Paint Exterior Miscellaneous Metal Surfaces (09 91 13)		
09 91 13 00-0352 SF Paint Exterior Miscellaneous Metal Surfaces, 1 Coat Alkyd Primer, Brush/Roller Work	1.04	
For Epoxy Paint, Add	0.08	
For Electrostatic Painting, Add	0.12	
09 91 13 00-0353 SF Paint Exterior Miscellaneous Metal Surfaces, 1 Coat Alkyd Enamel, Brush/Roller Work	1.00	
For Epoxy Paint, Add	0.07	
For Electrostatic Painting, Add	0.11	
09 91 13 00-0354 SF Paint Exterior Miscellaneous Metal Surfaces, 2 Coats Alkyd Enamel, Brush/Roller Work	2.03	
For Epoxy Paint, Add	0.14	
For Electrostatic Painting, Add	0.22	
09 91 33 Painting Materials (09 91)		
Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.		
09 91 33 00-0001 Primer (09 91 33)		
09 91 33 00-0002 GAL Alkyd Primer/Sealer, Interior, 500 SF Per Gallon	16.05	
09 91 33 00-0003 GAL Alkyd Wood Primer, Exterior, 400 SF Per Gallon	23.49	
09 91 33 00-0004 GAL Prime Coat Oil Wood Primer, 310 SF Per Gallon	29.79	
09 91 33 00-0005 GAL Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon	36.73	
09 91 33 00-0006 EA Cement Base Primer, 25 LB Sack	24.57	
09 91 33 00-0007 GAL Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon	37.88	
09 91 33 00-0008 GAL Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon	30.40	
09 91 33 00-0009 GAL Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF per Gallon	23.49	
09 91 33 00-0010 GAL Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon	21.34	
09 91 33 00-0011 GAL Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon	37.62	
09 91 33 00-0012 GAL Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon	31.32	
09 91 33 00-0013 GAL Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon	31.32	
09 91 33 00-0014 GAL Latex Wood Primer, Exterior, 300 SF Per Gallon	35.32	
09 91 33 00-0015 GAL Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon	23.03	
09 91 33 00-0016 GAL Red Alkyd Primer, 500 SF Per Gallon	27.47	
09 91 33 00-0017 GAL Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon	24.57	
09 91 33 00-0018 GAL Zinc Chromate Primer, 300 SF Per Gallon	19.65	
09 91 33 00-0019 GAL Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon	50.83	
09 91 33 00-0020 GAL Stain Killer, Alcohol Base	31.69	
09 91 33 00-0021 GAL Sealer, Primer Kilz, 400 SF Per Gallon	35.76	
09 91 33 00-0022 Paint (09 91 33)		
09 91 33 00-0023 GAL Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon	17.20	
09 91 33 00-0024 GAL Acrylic Urethane Sealer	85.27	
09 91 33 00-0025 GAL Asphalt-Fiber Roof And Foundation Coating, Solvent Type	9.21	
Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.		
09 91 33 00-0026 GAL Concrete Enamel Epoxy, 350 SF Per Gallon	53.28	
09 91 33 00-0027 GAL Concrete Acrylic Sealer, 400 SF Per Gallon	27.95	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 33 00-0028	GAL	Driveway Coating, Tar Emulsion, 120 SF Per Gallon	9.21	
09 91 33 00-0029	GAL	Driveway Coating, Acrylic Latex, 250 SF Per Gallon	13.97	
09 91 33 00-0030	GAL	Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon	28.25	
09 91 33 00-0031	GAL	Exterior, Oil Base, Gloss, 400 SF Per Gallon	37.62	
09 91 33 00-0032	GAL	Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon	30.71	
09 91 33 00-0033	GAL	Exterior, Oil Base, Flat	28.15	
09 91 33 00-0034	GAL	Exterior, Latex, Semi-Gloss, 400 SF Per Gallon	26.72	
09 91 33 00-0035	GAL	Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon	31.48	
09 91 33 00-0036	GAL	Exterior, Latex Flat Paint, 300 SF Per Gallon	27.95	
09 91 33 00-0037	GAL	Exterior, Latex Gloss Enamel, Water Base	39.78	
09 91 33 00-0038	GAL	Cold Galvanizing Paint	193.51	
09 91 33 00-0039	GAL	High Heat Paint	38.89	
09 91 33 00-0040	GAL	Heat Resistant Paint	25.93	
09 91 33 00-0041	GAL	Zinc Chromate Paint	23.46	
09 91 33 00-0042	QT	Anti-Rust Enamel, 500 SF Per Quart	9.26	
09 91 33 00-0043	GAL	Rust Inhibitor, Ferrous Metal	25.93	
09 91 33 00-0044	GAL	Masonry Waterproofing, 100 SF Per Gallon	27.95	
09 91 33 00-0045	GAL	Alkyd Latex, Black	17.49	
09 91 33 00-0046	GAL	Alkyd Latex, White	17.49	
09 91 33 00-0047	GAL	Alkyd Latex, Colors	21.09	
09 91 33 00-0048	QT	Wrought Iron Paint, Black	23.66	
09 91 33 00-0049	GAL	Vinyl Paint	46.99	
09 91 33 00-0050	GAL	Silicone Alkyd	57.12	
09 91 33 00-0051	GAL	2 Component Solvent Based Acrylic Epoxy	58.04	
09 91 33 00-0052	GAL	2 Component Solvent Based Polyester Epoxy	72.78	
09 91 33 00-0053	GAL	Chlorinated Rubber	53.44	
09 91 33 00-0054	GAL	Polyamide Epoxy Sealer	55.28	
09 91 33 00-0055	GAL	Coal Tar Epoxy	39.62	
09 91 33 00-0056	GAL	Swimming Pool Enamel, 350 SF Per Gallon	49.44	
09 91 33 00-0057	GAL	Swimming Pool Epoxy Or Urethane Base	64.49	
09 91 33 00-0058	GAL	Swimming Pool Rubber Base	44.22	
09 91 33 00-0059	GAL	Interior, Latex Flat Paint, 300 SF Per Gallon	28.10	
09 91 33 00-0060	GAL	Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon	31.48	
09 91 33 00-0061	GAL	Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon	57.58	
09 91 33 00-0062	GAL	Interior, Ceiling White Latex Flat, 350 SF Per Gallon	19.50	
09 91 33 00-0063	GAL	Linseed Oil	17.04	
09 91 33 00-0064	GAL	Latex Floor Paint, 300 SF Per Gallon	27.95	
09 91 33 00-0065	GAL	Acrylic Floor Paint, 400 SF Per Gallon	31.48	
09 91 33 00-0066	GAL	Texture Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon	28.79	
09 91 33 00-0067	GAL	Acoustic Spray-On Texture, Finish	23.14	
09 91 33 00-0068		Stain, Varnish (09 91 33)		
09 91 33 00-0069	GAL	Thompson Water Sealer, 150 SF Per Gallon	15.97	
09 91 33 00-0070	GAL	Latex Redwood Stain, Water Base, 300 SF Per Gallon	29.79	
09 91 33 00-0071	GAL	Redwood Oil Stain, 300 SF Per Gallon	26.56	
09 91 33 00-0072	GAL	Varnish, Clear	19.22	
09 91 33 00-0073	GAL	Penetrating Water-Repellent Stain	13.96	
09 91 33 00-0074	GAL	Redwood Hue Or Clear Stain	12.48	
09 91 33 00-0075	GAL	Polyurethane	21.91	
09 91 33 00-0076	GAL	Lacquer, Semi-Gloss	28.03	
09 91 33 00-0077	GAL	Shellac, Clear	36.77	
09 91 33 00-0078	GAL	Acetone	12.13	
09 91 33 00-0079	GAL	Paint Thinner	2.99	
09 91 33 00-0080	GAL	Shellac Or Lacquer Thinner	12.28	
09 91 33 00-0081	GAL	Turpentine	16.89	
09 91 33 00-0082	GAL	Wood Filler Paste	28.87	
09 91 33 00-0083	GAL	Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon	23.03	
09 91 43		Surface Preparation (09 91)		
Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.				
09 91 43 00-0001		Cleaning And Preparation Of Painted And Unpainted Surfaces (09 91 43)		
Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Sand blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment.				
09 91 43 00-0002		Concrete And Masonry Surfaces, Surface Preparation (09 91 43 00-0001)		
09 91 43 00-0003	SF	Calimine Removal/Washing, Concrete And Masonry Surfaces, Surface Preparation	0.43	
		For Up To 100, Add	0.74	
		For >100 To 250, Add	0.19	
		For >250 To 500, Add	0.09	
		For >5,000 To 10,000, Deduct	-0.02	
		For >10,000 To 15,000, Deduct	-0.04	
		For >15,000 To 30,000, Deduct	-0.06	
		For >30,000, Deduct	-0.08	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 43 00-0004 SF Chemical Clean, Brush And Wash, Concrete And Masonry Surfaces, Surface Preparation	0.67	
For Up To 100, Add	1.16	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.15	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.13	
09 91 43 00-0005 SF Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation	0.59	
For Up To 100, Add	1.18	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.15	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.12	
09 91 43 00-0006 SF Steam Clean, Concrete And Masonry Surfaces, Surface Preparation	0.60	
For Up To 100, Add	1.04	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.13	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.12	
09 91 43 00-0007 SF Up To 5,000 PSI Pressure Wash, Concrete And Masonry Surfaces, Surface Preparation	0.38	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.05	
For >30,000, Deduct	-0.07	
09 91 43 00-0008 SF 10,000 To 12,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	1.10	
For Up To 100, Add	1.98	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.25	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.11	
For >15,000 To 30,000, Deduct	-0.16	
For >30,000, Deduct	-0.21	
09 91 43 00-0009 SF 30,000 To 40,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	1.84	
For Up To 100, Add	3.46	
For >100 To 250, Add	0.87	
For >250 To 500, Add	0.43	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 15,000, Deduct	-0.18	
For >15,000 To 30,000, Deduct	-0.27	
For >30,000, Deduct	-0.36	
09 91 43 00-0010 SF Sand Blasting, Concrete And Masonry Surfaces, Surface Preparation	2.55	
For Heavy Condition Where Multiple Pass Is Required, Add	1.28	
For Up To 100, Add	4.60	
For >100 To 250, Add	1.15	
For >250 To 500, Add	0.58	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 15,000, Deduct	-0.25	
For >15,000 To 30,000, Deduct	-0.38	
For >30,000, Deduct	-0.50	
09 91 43 00-0011 Metal Surfaces, Surface Preparation (09 91 43 00-0001)		
09 91 43 00-0012 SF Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation	0.67	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.13	
09 91 43 00-0013 SF Hand Scraping And Sanding, Metal Surfaces, Surface Preparation	0.59	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.12	
09 91 43 00-0014 SF Up To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation	0.37	
For Up To 100, Add	0.23	
For >100 To 250, Add	0.11	
For >250 To 500, Add	0.05	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.03	
For >15,000 To 30,000, Deduct	-0.05	
For >30,000, Deduct	-0.07	



		Finishes	09	09
		Painting And Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 43 00-0015	SF		Power Tool Cleaning, Metal Surfaces, Surface Preparation.....	1.08	
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.16	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.11	
			For >15,000 To 30,000, Deduct	-0.16	
			For >30,000, Deduct	-0.22	
09 91 43 00-0016	SF		Steam Cleaning, Metal Surfaces, Surface Preparation.....	0.37	
			For Up To 100, Add	0.22	
			For >100 To 250, Add	0.10	
			For >250 To 500, Add	0.04	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.03	
			For >15,000 To 30,000, Deduct	-0.05	
			For >30,000, Deduct	-0.07	
09 91 43 00-0017	SF		Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation.....	0.81	
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.16	
09 91 43 00-0018	SF		Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation	1.10	
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.10	
			For >15,000 To 30,000, Deduct	-0.16	
			For >30,000, Deduct	-0.21	
09 91 43 00-0019	SF		Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation	1.63	
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 15,000, Deduct	-0.15	
			For >15,000 To 30,000, Deduct	-0.24	
			For >30,000, Deduct	-0.31	
09 91 43 00-0020	SF		Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation	2.72	
			For Up To 100, Add	1.76	
			For >100 To 250, Add	0.82	
			For >250 To 500, Add	0.35	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 15,000, Deduct	-0.26	
			For >15,000 To 30,000, Deduct	-0.40	
			For >30,000, Deduct	-0.53	
09 91 43 00-0021	SF		Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation.....	2.06	
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.26	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 15,000, Deduct	-0.19	
			For >15,000 To 30,000, Deduct	-0.30	
			For >30,000, Deduct	-0.40	
09 91 43 00-0022	SF		Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation	2.56	
			For Up To 100, Add	1.62	
			For >100 To 250, Add	0.76	
			For >250 To 500, Add	0.32	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 15,000, Deduct	-0.24	
			For >15,000 To 30,000, Deduct	-0.37	
			For >30,000, Deduct	-0.49	
09 91 43 00-0023	SF		Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation.....	3.32	
			For Up To 100, Add	2.11	
			For >100 To 250, Add	0.98	
			For >250 To 500, Add	0.42	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 15,000, Deduct	-0.31	
			For >15,000 To 30,000, Deduct	-0.48	
			For >30,000, Deduct	-0.64	
09 91 43 00-0024	SF		Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation.....	4.16	
			For Up To 100, Add	2.64	
			For >100 To 250, Add	1.23	
			For >250 To 500, Add	0.53	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 15,000, Deduct	-0.39	
			For >15,000 To 30,000, Deduct	-0.60	
			For >30,000, Deduct	-0.80	

09 91 43 00-0025 Tile Surfaces (09 91 43 00-0001)

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 43 00-0026	SF		Alkaline Cleaner, Brush And Wash Tile Surface.....	0.38	
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.04	
			For >15,000 To 30,000, Deduct	-0.06	
			For >30,000, Deduct	-0.08	
09 91 43 00-0027	SF		Up To 5,000 PSI, Pressure Wash Tile Surface.....	0.28	
			For Up To 100, Add	0.18	
			For >100 To 250, Add	0.08	
			For >250 To 500, Add	0.04	
			For >5,000 To 10,000, Deduct	-0.01	
			For >10,000 To 15,000, Deduct	-0.03	
			For >15,000 To 30,000, Deduct	-0.04	
			For >30,000, Deduct	-0.05	
09 91 43 00-0028 Wood Surfaces (09 91 43 00-0001)					
09 91 43 00-0029	SF		Chemical Clean, Brush And Wash Wood Surface.....	0.53	
			For Up To 100, Add	0.33	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.10	
09 91 43 00-0030	SF		Hand Scrape Wood Surface	0.65	
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.10	
			For >30,000, Deduct	-0.13	
09 91 43 00-0031	SF		Steam Clean Wood Surface	0.59	
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.06	
			For >15,000 To 30,000, Deduct	-0.09	
			For >30,000, Deduct	-0.11	
09 91 43 00-0032	SF		Up To 5,000 PSI, Pressure Wash Wood Surface	0.41	
			For Up To 100, Add	0.26	
			For >100 To 250, Add	0.12	
			For >250 To 500, Add	0.05	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.04	
			For >15,000 To 30,000, Deduct	-0.06	
			For >30,000, Deduct	-0.08	
09 91 43 00-0033	SF		Sanding Wood Paneling, Boards, Doors, Etcetera	0.78	
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.15	
09 91 43 00-0034	SF		Sanding Wood Trim	1.06	
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.15	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.10	
			For >15,000 To 30,000, Deduct	-0.16	
			For >30,000, Deduct	-0.21	
09 91 43 00-0035	SF		Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening	1.20	
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.17	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.12	
			For >15,000 To 30,000, Deduct	-0.18	
			For >30,000, Deduct	-0.24	
09 91 43 00-0036	SF		Prime Wood Surfaces With Linseed Oil, 1 Coat	0.68	
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.10	
			For >30,000, Deduct	-0.13	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 43 00-0037	SF		Paint Wood Surfaces With Linseed Oil, 1 Coat.....	0.79	
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.15	
09 91 43 00-0038			Vinyl Siding Surfaces (09 91 43 00-0001)		
09 91 43 00-0039	SF		Hand Wash, Vinyl Siding Surfaces	0.61	
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.06	
			For >15,000 To 30,000, Deduct	-0.09	
			For >30,000, Deduct	-0.12	
09 91 43 00-0040	SF		Up To 5,000 PSI Pressure Wash, Vinyl Siding Surfaces	0.33	
			For Up To 100, Add	0.20	
			For >100 To 250, Add	0.09	
			For >250 To 500, Add	0.04	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.03	
			For >15,000 To 30,000, Deduct	-0.05	
			For >30,000, Deduct	-0.06	
09 91 43 00-0041	SF		Steam Clean, Vinyl Siding Surfaces	0.62	
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.06	
			For >15,000 To 30,000, Deduct	-0.09	
			For >30,000, Deduct	-0.12	
09 91 43 00-0042			Prep Work (09 91 43 00-0001)		
09 91 43 00-0043	SF		Citrus Strip, Single Applications.....	0.99	
09 91 43 00-0044			Plaster/Stucco (09 91 43 00-0001)		
			Note: Based on total project quantity.		
09 91 43 00-0045	SF		Up To 5,000 PSI Pressure Wash Stucco Surfaces.....	0.43	
			For Up To 100, Add	0.27	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.05	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.04	
			For >15,000 To 30,000, Deduct	-0.06	
			For >30,000, Deduct	-0.08	
09 91 43 00-0046			Paint Removal, Strip To Bare Wood (09 91 43 00-0001)		
09 91 43 00-0047	SF		Flat Surfaces, Paint Removal, Strip To Bare Wood	7.04	
09 91 43 00-0048	SF		Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood.....	7.51	
09 96			High-Performance Coatings (09 90)		
09 96 23			Graffiti-Resistant Coatings (09 96)		
09 96 23 00-0001			Anti-Graffiti Coating (09 96 23)		
09 96 23 00-0002	SF		Sacrificial Anti-Graffiti Coating, Per Coat	1.24	
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.16	
09 96 23 00-0003	SF		Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat	1.29	
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
09 96 53			Elastomeric Coatings (09 96)		
09 96 53 00-0001			Elastomeric (09 96 53)		
			Note: Per coat.		

09 Finishes**09 90 Painting And Coating****09 96 High-Performance Coatings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0002 SF Paint, Brush, Elastomeric, Per Coat.....	2.17	
For Work >20', Add	0.38	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.24	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.43	
09 96 53 00-0003 SF Paint, Roller, Elastomeric, Per Coat.....	1.71	
For Work >20', Add	0.27	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.90	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.34	
09 96 53 00-0004 SF Paint, Conventional Spray, Elastomeric, Per Coat.....	1.50	
For Work >20', Add	0.19	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 96 53 00-0005 SF Paint, Airless Spray, Elastomeric, Per Coat.....	1.35	
For Work >20', Add	0.15	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 96 56 Epoxy Coatings (09 96)		
09 96 56 00-0001 High Build Epoxy (09 96 56)		
09 96 56 00-0002 SF High Build Epoxy - 50 Mil.....	2.99	
09 96 56 00-0003 Laminated Epoxy With Fiberglass (09 96 56)		
09 96 56 00-0004 SF Laminated Epoxy With Fiberglass.....	5.34	
09 96 66 Aggregate Wall Coatings (09 96)		
09 96 66 00-0001 Troweled On (09 96 66)		
09 96 66 00-0002 SF Exposed Aggregate - 1/16" To 1/4" - Troweled On.....	3.74	
09 96 66 00-0003 SF Exposed Aggregate - 1/2" To 5/8" Troweled On.....	6.73	
09 96 66 00-0004 SF Exposed Aggregate - 1" Troweled On.....	9.98	
09 96 66 00-0005 Sprayed On (09 96 66)		
09 96 66 00-0006 SF Exposed Aggregate - 1/8" - Sprayed On.....	3.03	
09 97 Special Coatings (09 90)		
09 97 13 Steel Coatings (09 97)		
09 97 13 23 Exterior Steel Coatings (09 97 13)		
09 97 13 23-0001 Surface Preparation For Structural Steel (09 97 13 23)		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0002 SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
09 97 13 23-0003 SF Type 1 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.44	
For Up To 100, Add	1.08	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
09 97 13 23-0004 SF Type 2 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.37	
For Up To 100, Add	1.03	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	



		Finishes	09	2
		Painting And Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0005	SF		Type 3 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.37	
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
09 97 13 23-0006	SF		Up To 14" Diameter Pipe SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.87	
			For Up To 100, Add	1.40	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
09 97 13 23-0007 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel					
			(09 97 13 23-0001)		
09 97 13 23-0008	SF		Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.90	
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
09 97 13 23-0009	SF		Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.80	
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
09 97 13 23-0010	SF		Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.79	
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
09 97 13 23-0011	SF		Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation	1.13	
			For Up To 100, Add	0.78	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
09 97 13 23-0012 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel					
			(09 97 13 23-0001)		
09 97 13 23-0013	SF		Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.32	
			For Up To 100, Add	1.63	
			For >100 To 250, Add	0.76	
			For >250 To 500, Add	0.33	
09 97 13 23-0014	SF		Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.02	
			For Up To 100, Add	1.41	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	
09 97 13 23-0015	SF		Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	1.88	
			For Up To 100, Add	1.30	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.26	
09 97 13 23-0016	SF		Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation	2.90	
			For Up To 100, Add	2.06	
			For >100 To 250, Add	0.97	
			For >250 To 500, Add	0.42	
09 97 13 23-0017 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel					
			(09 97 13 23-0001)		
09 97 13 23-0018	SF		Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.51	
			For Up To 100, Add	3.18	
			For >100 To 250, Add	1.50	
			For >250 To 500, Add	0.64	
09 97 13 23-0019	SF		Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	3.87	
			For Up To 100, Add	2.72	
			For >100 To 250, Add	1.28	
			For >250 To 500, Add	0.55	
09 97 13 23-0020	SF		Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	3.56	
			For Up To 100, Add	2.48	
			For >100 To 250, Add	1.17	
			For >250 To 500, Add	0.50	
09 97 13 23-0021	SF		Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation.....	5.43	
			For Up To 100, Add	3.88	
			For >100 To 250, Add	1.82	
			For >250 To 500, Add	0.78	
09 97 13 23-0022 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel					
			(09 97 13 23-0001)		
09 97 13 23-0023	SF		Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.36	
			For Up To 100, Add	2.36	
			For >100 To 250, Add	1.11	
			For >250 To 500, Add	0.48	
09 97 13 23-0024	SF		Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	2.86	
			For Up To 100, Add	2.01	
			For >100 To 250, Add	0.94	
			For >250 To 500, Add	0.41	

09 Finishes**09 90 Painting And Coating****09 97 Special Coatings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0025 SF Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	2.70	
For Up To 100, Add	1.89	
For >100 To 250, Add	0.89	
For >250 To 500, Add	0.38	
09 97 13 23-0026 SF Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation	3.95	
For Up To 100, Add	2.82	
For >100 To 250, Add	1.33	
For >250 To 500, Add	0.57	
09 97 13 23-0027 Protective Coatings For Tanks And Structural Steel (09 97 13 23)		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0028 1.5 Mil Prime Coat For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0029 SF Spray Type 1 Structural Steel 1.5 Mil Prime Coat	0.89	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
09 97 13 23-0030 SF Spray Type 2 Structural Steel 1.5 Mil Prime Coat	0.66	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 97 13 23-0031 SF Spray Type 3 Structural Steel 1.5 Mil Prime Coat	0.58	
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
09 97 13 23-0032 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.07	
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
09 97 13 23-0033 SF Brush Type 1 Structural Steel 1.5 Mil Prime Coat	1.29	
For Up To 100, Add	0.90	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
09 97 13 23-0034 SF Brush Type 2 Structural Steel 1.5 Mil Prime Coat	0.94	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 97 13 23-0035 SF Brush Type 3 Structural Steel 1.5 Mil Prime Coat	0.83	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
09 97 13 23-0036 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.55	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.22	
09 97 13 23-0037 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0038 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.61	
For Up To 100, Add	1.75	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.36	
09 97 13 23-0039 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.87	
For Up To 100, Add	1.22	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
09 97 13 23-0040 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.73	
For Up To 100, Add	1.11	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
09 97 13 23-0041 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.19	
For Up To 100, Add	2.18	
For >100 To 250, Add	1.03	
For >250 To 500, Add	0.44	
09 97 13 23-0042 SF Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.96	
For Up To 100, Add	1.32	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
09 97 13 23-0043 SF Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.40	
For Up To 100, Add	0.91	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
09 97 13 23-0044 SF Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.30	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
09 97 13 23-0045 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.39	
For Up To 100, Add	1.64	
For >100 To 250, Add	0.77	
For >250 To 500, Add	0.33	



		Finishes	09	09
		Painting And Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0046	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	4.08	
			For Up To 100, Add	2.86	
			For >100 To 250, Add	1.34	
			For >250 To 500, Add	0.58	
09 97 13 23-0047	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.88	
			For Up To 100, Add	1.97	
			For >100 To 250, Add	0.93	
			For >250 To 500, Add	0.40	
09 97 13 23-0048	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.65	
			For Up To 100, Add	1.80	
			For >100 To 250, Add	0.85	
			For >250 To 500, Add	0.37	
09 97 13 23-0049	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	5.03	
			For Up To 100, Add	3.56	
			For >100 To 250, Add	1.67	
			For >250 To 500, Add	0.72	
09 97 13 23-0050	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.05	
			For Up To 100, Add	2.14	
			For >100 To 250, Add	1.01	
			For >250 To 500, Add	0.43	
09 97 13 23-0051	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.16	
			For Up To 100, Add	1.48	
			For >100 To 250, Add	0.70	
			For >250 To 500, Add	0.30	
09 97 13 23-0052	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.99	
			For Up To 100, Add	1.35	
			For >100 To 250, Add	0.64	
			For >250 To 500, Add	0.28	
09 97 13 23-0053	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.77	
			For Up To 100, Add	2.67	
			For >100 To 250, Add	1.25	
			For >250 To 500, Add	0.54	
09 97 13 23-0054 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0027)					
09 97 13 23-0055	SF		Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.03	
			For Up To 100, Add	1.37	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
09 97 13 23-0056	SF		Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.64	
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.22	
09 97 13 23-0057	SF		Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.50	
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
09 97 13 23-0058	SF		Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.52	
			For Up To 100, Add	1.74	
			For >100 To 250, Add	0.82	
			For >250 To 500, Add	0.35	
09 97 13 23-0059	SF		Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.29	
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
09 97 13 23-0060	SF		Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.05	
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
09 97 13 23-0061	SF		Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	0.96	
			For Up To 100, Add	0.64	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
09 97 13 23-0062	SF		Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.61	
			For Up To 100, Add	1.11	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.23	
09 97 13 23-0063	SF		Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.92	
			For Up To 100, Add	2.04	
			For >100 To 250, Add	0.96	
			For >250 To 500, Add	0.41	
09 97 13 23-0064	SF		Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.35	
			For Up To 100, Add	1.63	
			For >100 To 250, Add	0.77	
			For >250 To 500, Add	0.33	
09 97 13 23-0065	SF		Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.14	
			For Up To 100, Add	1.47	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
09 97 13 23-0066	SF		Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	3.67	
			For Up To 100, Add	2.60	
			For >100 To 250, Add	1.22	
			For >250 To 500, Add	0.53	

09 Finishes**09 90 Painting And Coating****09 97 Special Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0067	SF		Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.87	
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.26	
09 97 13 23-0068	SF		Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.51	
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
09 97 13 23-0069	SF		Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.37	
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
09 97 13 23-0070	SF		Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.35	
			For Up To 100, Add	1.67	
			For >100 To 250, Add	0.78	
			For >250 To 500, Add	0.34	
09 97 13 23-0071 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel					
			(09 97 13 23-0027)		
09 97 13 23-0072	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.23	
			For Up To 100, Add	2.01	
			For >100 To 250, Add	0.96	
			For >250 To 500, Add	0.42	
09 97 13 23-0073	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.33	
			For Up To 100, Add	1.38	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	
09 97 13 23-0074	SF		Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.04	
			For Up To 100, Add	1.16	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.24	
09 97 13 23-0075	SF		Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.69	
			For Up To 100, Add	2.34	
			For >100 To 250, Add	1.11	
			For >250 To 500, Add	0.48	
09 97 13 23-0076	SF		Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.27	
			For Up To 100, Add	1.41	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.29	
09 97 13 23-0077	SF		Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.62	
			For Up To 100, Add	0.96	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
09 97 13 23-0078	SF		Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.43	
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
09 97 13 23-0079	SF		Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.59	
			For Up To 100, Add	1.64	
			For >100 To 250, Add	0.78	
			For >250 To 500, Add	0.34	
09 97 13 23-0080 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel					
			(09 97 13 23-0027)		
09 97 13 23-0081	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	3.43	
			For Up To 100, Add	2.04	
			For >100 To 250, Add	0.98	
			For >250 To 500, Add	0.43	
09 97 13 23-0082	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	2.51	
			For Up To 100, Add	1.40	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.30	
09 97 13 23-0083	SF		Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	2.22	
			For Up To 100, Add	1.19	
			For >100 To 250, Add	0.58	
			For >250 To 500, Add	0.25	
09 97 13 23-0084	SF		Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	3.89	
			For Up To 100, Add	2.37	
			For >100 To 250, Add	1.13	
			For >250 To 500, Add	0.49	
09 97 13 23-0085	SF		Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.82	
			For Up To 100, Add	1.68	
			For >100 To 250, Add	0.81	
			For >250 To 500, Add	0.35	
09 97 13 23-0086	SF		Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.05	
			For Up To 100, Add	1.15	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.24	
09 97 13 23-0087	SF		Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	1.81	
			For Up To 100, Add	0.97	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.21	



		Finishes	09	2
		Painting And Coating	09 90	
		Special Coatings	09 97	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0088	SF	Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats	3.19	
		For Up To 100, Add	1.95	
		For >100 To 250, Add	0.93	
		For >250 To 500, Add	0.40	
09 97 13 23-0089		1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0090	SF	Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	7.23	
		For Up To 100, Add	4.41	
		For >100 To 250, Add	2.11	
		For >250 To 500, Add	0.92	
09 97 13 23-0091	SF	Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	5.42	
		For Up To 100, Add	3.16	
		For >100 To 250, Add	1.52	
		For >250 To 500, Add	0.66	
09 97 13 23-0092	SF	Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	5.20	
		For Up To 100, Add	2.99	
		For >100 To 250, Add	1.44	
		For >250 To 500, Add	0.63	
09 97 13 23-0093	SF	Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	8.47	
		For Up To 100, Add	5.32	
		For >100 To 250, Add	2.53	
		For >250 To 500, Add	1.10	
09 97 13 23-0094		1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0095	SF	Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.73	
		For Up To 100, Add	2.13	
		For >100 To 250, Add	1.03	
		For >250 To 500, Add	0.45	
09 97 13 23-0096	SF	Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.89	
		For Up To 100, Add	1.50	
		For >100 To 250, Add	0.73	
		For >250 To 500, Add	0.32	
09 97 13 23-0097	SF	Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.75	
		For Up To 100, Add	1.40	
		For >100 To 250, Add	0.69	
		For >250 To 500, Add	0.30	
09 97 13 23-0098	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.28	
		For Up To 100, Add	2.52	
		For >100 To 250, Add	1.21	
		For >250 To 500, Add	0.53	
09 97 13 23-0099	SF	Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.96	
		For Up To 100, Add	1.69	
		For >100 To 250, Add	0.82	
		For >250 To 500, Add	0.36	
09 97 13 23-0100	SF	Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.27	
		For Up To 100, Add	1.18	
		For >100 To 250, Add	0.58	
		For >250 To 500, Add	0.25	
09 97 13 23-0101	SF	Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.16	
		For Up To 100, Add	1.10	
		For >100 To 250, Add	0.54	
		For >250 To 500, Add	0.24	
09 97 13 23-0102	SF	Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	3.38	
		For Up To 100, Add	1.99	
		For >100 To 250, Add	0.96	
		For >250 To 500, Add	0.42	
09 97 13 23-0103		Two 8 Mil Coal Tar Epoxy Coats For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0104	SF	Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.25	
		For Up To 100, Add	2.06	
		For >100 To 250, Add	0.98	
		For >250 To 500, Add	0.42	
09 97 13 23-0105	SF	Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	2.63	
		For Up To 100, Add	1.63	
		For >100 To 250, Add	0.78	
		For >250 To 500, Add	0.34	
09 97 13 23-0106	SF	Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	2.41	
		For Up To 100, Add	1.47	
		For >100 To 250, Add	0.70	
		For >250 To 500, Add	0.30	
09 97 13 23-0107	SF	Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats.....	4.06	
		For Up To 100, Add	2.66	
		For >100 To 250, Add	1.26	
		For >250 To 500, Add	0.54	
09 97 13 23-0108		One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel (09 97 13 23-0027)		

09 Finishes**09 90 Painting And Coating****09 97 Special Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0109	SF		Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.18	
			For Up To 100, Add	2.10	
			For >100 To 250, Add	0.99	
			For >250 To 500, Add	0.43	
09 97 13 23-0110	SF		Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.23	
			For Up To 100, Add	1.40	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.29	
09 97 13 23-0111	SF		Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	1.87	
			For Up To 100, Add	1.13	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.24	
09 97 13 23-0112	SF		Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.64	
			For Up To 100, Add	2.42	
			For >100 To 250, Add	1.15	
			For >250 To 500, Add	0.50	
09 97 13 23-0113			One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0114	SF		Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.63	
			For Up To 100, Add	0.92	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.19	
09 97 13 23-0115	SF		Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.16	
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
09 97 13 23-0116	SF		Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.09	
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
09 97 13 23-0117	SF		Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat.....	1.72	
			For Up To 100, Add	0.98	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.21	
09 97 13 23-0118			Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0027)		
			Note: Installed over existing primer.		
09 97 13 23-0119	SF		Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.57	
			For Up To 100, Add	1.58	
			For >100 To 250, Add	0.75	
			For >250 To 500, Add	0.33	
09 97 13 23-0120	SF		Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.09	
			For Up To 100, Add	1.25	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
09 97 13 23-0121	SF		Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	1.81	
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
09 97 13 23-0122	SF		Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats.....	3.02	
			For Up To 100, Add	1.91	
			For >100 To 250, Add	0.91	
			For >250 To 500, Add	0.39	
09 97 13 24			Steel Water Storage Tank Painting (09 97 13)		
09 97 13 24-0001			Surface Preparation For Tanks (09 97 13 24)		
			Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002			SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0003	SF		Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.37	
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
09 97 13 24-0004	SF		Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.22	
			For Up To 100, Add	0.92	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.18	
09 97 13 24-0005	SF		Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.73	
			For Up To 100, Add	1.30	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.26	
09 97 13 24-0006			SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		



		Finishes	09	2
		Painting And Coating	09 90	
		Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0007 SF Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation 0.76 For Up To 100, Add 0.52 For >100 To 250, Add 0.25 For >250 To 500, Add 0.11		
09 97 13 24-0008 SF Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation 0.62 For Up To 100, Add 0.43 For >100 To 250, Add 0.20 For >250 To 500, Add 0.09		
09 97 13 24-0009 SF Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation 1.07 For Up To 100, Add 0.77 For >100 To 250, Add 0.36 For >250 To 500, Add 0.15		
09 97 13 24-0010 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001) 1.88		
09 97 13 24-0011 SF Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation 1.30 For Up To 100, Add 0.61 For >100 To 250, Add 0.26		
09 97 13 24-0012 SF Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation 1.73 For Up To 100, Add 1.19 For >100 To 250, Add 0.56 For >250 To 500, Add 0.24		
09 97 13 24-0013 SF Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation 2.50 For Up To 100, Add 1.77 For >100 To 250, Add 0.83 For >250 To 500, Add 0.36		
09 97 13 24-0014 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001) 3.39		
09 97 13 24-0015 SF Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation 2.36 For Up To 100, Add 1.11 For >100 To 250, Add 0.48		
09 97 13 24-0016 SF Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation 3.24 For Up To 100, Add 2.25 For >100 To 250, Add 1.06 For >250 To 500, Add 0.46		
09 97 13 24-0017 SF Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation 4.71 For Up To 100, Add 3.35 For >100 To 250, Add 1.57 For >250 To 500, Add 0.68		
09 97 13 24-0018 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001) 2.70		
09 97 13 24-0019 SF Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation 1.89 For Up To 100, Add 0.89 For >100 To 250, Add 0.38		
09 97 13 24-0020 SF Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation 2.70 For Up To 100, Add 1.89 For >100 To 250, Add 0.89 For >250 To 500, Add 0.38		
09 97 13 24-0021 SF Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation 3.95 For Up To 100, Add 2.82 For >100 To 250, Add 1.33 For >250 To 500, Add 0.57		
09 97 13 24-0022 Protective Coatings For Tanks (09 97 13 24) 0.51 Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023 1.5 Mil Prime Coat For Tanks (09 97 13 24-0022) 0.42		
09 97 13 24-0024 SF Spray Small Vessel/Tank 1.5 Mil Prime Coat 0.33 For Up To 100, Add 0.16 For >100 To 250, Add 0.07		
09 97 13 24-0025 SF Spray Large Vessel/Tank 1.5 Mil Prime Coat 0.26 For Up To 100, Add 0.12 For >100 To 250, Add 0.05		
09 97 13 24-0026 SF Spray Tank Interior 1.5 Mil Prime Coat 1.02 For Up To 100, Add 0.71 For >100 To 250, Add 0.33 For >250 To 500, Add 0.14		
09 97 13 24-0027 SF Brush Small Vessel/Tank 1.5 Mil Prime Coat 0.73 For Up To 100, Add 0.49 For >100 To 250, Add 0.23 For >250 To 500, Add 0.10		

09 Finishes**09 90 Painting And Coating****09 97 Special Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0028	SF		Brush Large Vessel/Tank 1.5 Mil Prime Coat	0.58	
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
09 97 13 24-0029	SF		Brush Tank Interior 1.5 Mil Prime Coat	1.48	
			For Up To 100, Add	1.06	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.21	
09 97 13 24-0030 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0031	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.50	
			For Up To 100, Add	0.95	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.20	
09 97 13 24-0032	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.15	
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
09 97 13 24-0033	SF		Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.85	
			For Up To 100, Add	1.96	
			For >100 To 250, Add	0.92	
			For >250 To 500, Add	0.40	
09 97 13 24-0034	SF		Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.13	
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
09 97 13 24-0035	SF		Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	0.86	
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
09 97 13 24-0036	SF		Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.13	
			For Up To 100, Add	1.47	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
09 97 13 24-0037	SF		Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.29	
			For Up To 100, Add	1.54	
			For >100 To 250, Add	0.73	
			For >250 To 500, Add	0.31	
09 97 13 24-0038	SF		Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.71	
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.23	
09 97 13 24-0039	SF		Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	4.51	
			For Up To 100, Add	3.20	
			For >100 To 250, Add	1.50	
			For >250 To 500, Add	0.65	
09 97 13 24-0040	SF		Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.71	
			For Up To 100, Add	1.15	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
09 97 13 24-0041	SF		Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.27	
			For Up To 100, Add	0.82	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
09 97 13 24-0042	SF		Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.38	
			For Up To 100, Add	2.40	
			For >100 To 250, Add	1.13	
			For >250 To 500, Add	0.49	
09 97 13 24-0043 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0044	SF		Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.35	
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
09 97 13 24-0045	SF		Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.15	
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
09 97 13 24-0046	SF		Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.99	
			For Up To 100, Add	2.11	
			For >100 To 250, Add	0.99	
			For >250 To 500, Add	0.43	
09 97 13 24-0047	SF		Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	0.87	
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
09 97 13 24-0048	SF		Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	0.73	
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	



		Finishes	09	2
		Painting And Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0049	SF		Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	1.91	
			For Up To 100, Add	1.35	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
09 97 13 24-0050	SF		Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.93	
			For Up To 100, Add	1.32	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
09 97 13 24-0051	SF		Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.61	
			For Up To 100, Add	1.08	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.22	
09 97 13 24-0052	SF		Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.70	
			For Up To 100, Add	3.44	
			For >100 To 250, Add	1.61	
			For >250 To 500, Add	0.69	
09 97 13 24-0053	SF		Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.24	
			For Up To 100, Add	0.85	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.17	
09 97 13 24-0054	SF		Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.02	
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
09 97 13 24-0055	SF		Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	3.06	
			For Up To 100, Add	2.21	
			For >100 To 250, Add	1.04	
			For >250 To 500, Add	0.45	
09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0057	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.88	
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.22	
09 97 13 24-0058	SF		Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.60	
			For Up To 100, Add	0.84	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
09 97 13 24-0059	SF		Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.32	
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
09 97 13 24-0060	SF		Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.12	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
09 97 13 24-0061 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0062	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.05	
			For Up To 100, Add	1.08	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
09 97 13 24-0063	SF		Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	1.77	
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
09 97 13 24-0064	SF		Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	1.68	
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
09 97 13 24-0065	SF		Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	1.44	
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
09 97 13 24-0066 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0067	SF		Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	5.02	
			For Up To 100, Add	2.88	
			For >100 To 250, Add	1.39	
			For >250 To 500, Add	0.61	
09 97 13 24-0068	SF		Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	4.60	
			For Up To 100, Add	2.57	
			For >100 To 250, Add	1.24	
			For >250 To 500, Add	0.54	
09 97 13 24-0069	SF		Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	7.86	
			For Up To 100, Add	5.01	
			For >100 To 250, Add	2.38	
			For >250 To 500, Add	1.03	

09 Finishes**09 90 Painting And Coating****09 97 Special Coatings**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT	COST	UNIT COST
09 97 13 24-0070 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0071	SF	Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....		2.57	
		For Up To 100, Add		1.34	
		For >100 To 250, Add		0.65	
		For >250 To 500, Add		0.29	
09 97 13 24-0072	SF	Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats		2.26	
		For Up To 100, Add		1.11	
		For >100 To 250, Add		0.55	
		For >250 To 500, Add		0.24	
09 97 13 24-0073	SF	Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats		3.96	
		For Up To 100, Add		2.38	
		For >100 To 250, Add		1.14	
		For >250 To 500, Add		0.50	
09 97 13 24-0074	SF	Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....		2.04	
		For Up To 100, Add		1.06	
		For >100 To 250, Add		0.52	
		For >250 To 500, Add		0.23	
09 97 13 24-0075	SF	Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....		1.79	
		For Up To 100, Add		0.87	
		For >100 To 250, Add		0.43	
		For >250 To 500, Add		0.19	
09 97 13 24-0076	SF	Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats		3.14	
		For Up To 100, Add		1.89	
		For >100 To 250, Add		0.90	
		For >250 To 500, Add		0.39	
09 97 13 24-0077 Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0078	SF	Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats.....		2.40	
		For Up To 100, Add		1.46	
		For >100 To 250, Add		0.70	
		For >250 To 500, Add		0.30	
09 97 13 24-0079	SF	Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats		1.98	
		For Up To 100, Add		1.15	
		For >100 To 250, Add		0.55	
		For >250 To 500, Add		0.24	
09 97 13 24-0080	SF	Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats		3.11	
		For Up To 100, Add		2.00	
		For >100 To 250, Add		0.95	
		For >250 To 500, Add		0.41	
09 97 13 24-0081 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)					
09 97 13 24-0082	SF	Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....		1.64	
		For Up To 100, Add		0.97	
		For >100 To 250, Add		0.46	
		For >250 To 500, Add		0.20	
09 97 13 24-0083	SF	Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....		1.51	
		For Up To 100, Add		0.87	
		For >100 To 250, Add		0.42	
		For >250 To 500, Add		0.18	
09 97 13 24-0084	SF	Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....		2.57	
		For Up To 100, Add		1.66	
		For >100 To 250, Add		0.79	
		For >250 To 500, Add		0.34	
09 97 13 24-0085 Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)					
09 97 13 24-0086	SF	Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats		3.66	
		For Up To 100, Add		2.25	
		For >100 To 250, Add		1.08	
		For >250 To 500, Add		0.47	
09 97 13 24-0087	SF	Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats		2.16	
		For Up To 100, Add		1.18	
		For >100 To 250, Add		0.57	
		For >250 To 500, Add		0.25	
09 97 13 24-0088 One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)					
09 97 13 24-0089	SF	Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat		1.01	
		For Up To 100, Add		0.49	
		For >100 To 250, Add		0.24	
		For >250 To 500, Add		0.11	
09 97 13 24-0090	SF	Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat		0.98	
		For Up To 100, Add		0.47	
		For >100 To 250, Add		0.23	
		For >250 To 500, Add		0.10	



		Finishes	09	9
		Painting And Coating	09 90	
		Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0091 SF Spray Tank Interior One 3 Mil High Zinc Silicate Coat.....	1.64	
For Up To 100, Add	0.97	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
09 97 13 24-0092 Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks (09 97 13 24-0022)		
Note: Installed over existing primer.		
09 97 13 24-0093 SF Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	1.71	
For Up To 100, Add	0.98	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.21	
09 97 13 24-0094 SF Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	1.51	
For Up To 100, Add	0.83	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.18	
09 97 13 24-0095 SF Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats	2.42	
For Up To 100, Add	1.51	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
09 97 13 24-0096 One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0097 SF Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	6.45	
For Up To 100, Add	4.21	
For >100 To 250, Add	2.00	
For >250 To 500, Add	0.86	
09 97 26 Cementitious Coatings (09 97)		
09 97 26 13 Interior Cementitious Coatings (09 97 26)		
09 97 26 13-0001 Ceramic-Like Glazed Coating (09 97 26 13)		
09 97 26 13-0002 Ceramic-Like Glazed Coating, Cementitious (09 97 26 13-0001)		
09 97 26 13-0003 SF Ceramic-like Glazed Coating. - Cementitious	2.54	
09 97 26 13-0004 Ceramic-Like Glazed Coating, Resin Base (09 97 26 13-0001)		
09 97 26 13-0005 SF Ceramic-like Glazed Coating - Resin.....	2.13	
09 97 63 Special Coatings (09 97)		
09 97 63 00-0001 Acrylic Glazed Coating (09 97 63)		
09 97 63 00-0002 SF Acrylic Glazed Coating	1.64	

END OF SECTION 09

09	09	Finishes
	09 90	Painting And Coating
	09 97	Special Coatings



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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			Specialties	10
			Information Specialties	10 10
			Signage	10 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

10 Specialties

10 10 Information Specialties ⁽¹⁰⁾

10 14 Signage ^(10 10)

10 14 53 Traffic Signage ^(10 14)

10 14 53 00-0001 Traffic Signs ^(10 14 53)

10 14 53 00-0002 Reflectorized Stop Signs And Other Traffic Signs ^(10 14 53 00-0001)

Note: Excludes posts.

10 14 53 00-0003 Aluminum Engineer Grade Stop Signs ^(10 14 53 00-0002)

10 14 53 00-0004	EA 18" x 18" Aluminum Engineer Grade Stop Sign	52.01	15.28
	For Hi-Intensity Grade, Add	6.44	
	For Diamond Grade, Add	12.23	
10 14 53 00-0005	EA 18" x 24" Aluminum Engineer Grade Stop Sign	60.30	16.16
	For Hi-Intensity Grade, Add	8.42	
	For Diamond Grade, Add	15.99	
10 14 53 00-0006	EA 24" x 24" Aluminum Engineer Grade Stop Sign	65.30	16.97
	For Hi-Intensity Grade, Add	12.85	
	For Diamond Grade, Add	20.38	
10 14 53 00-0007	EA 30" x 30" Aluminum Engineer Grade Stop Sign	75.80	17.86
	For Hi-Intensity Grade, Add	4.82	
	For Diamond Grade, Add	26.10	
10 14 53 00-0008	EA 36" x 36" Aluminum Engineer Grade Stop Sign	101.70	18.67
	For Hi-Intensity Grade, Add	14.16	
	For Diamond Grade, Add	44.40	

10 14 53 00-0009 Other Reflectorized Traffic Signs ^(10 14 53 00-0002)

Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.

10 14 53 00-0010 Aluminum Engineer Grade Traffic Signs ^(10 14 53 00-0009)

10 14 53 00-0011	EA 6" x 12" Aluminum Engineer Grade Traffic Sign	32.47	13.58
	For Hi-Intensity Grade, Add	1.59	
10 14 53 00-0012	EA 6" x 18" Aluminum Engineer Grade Traffic Sign	35.13	13.58
	For Hi-Intensity Grade, Add	2.39	
10 14 53 00-0013	EA 9" x 12" Aluminum Engineer Grade Traffic Sign	35.13	13.58
	For Hi-Intensity Grade, Add	2.39	
10 14 53 00-0014	EA 9" x 15" Aluminum Engineer Grade Traffic Sign	37.12	13.58
	For Hi-Intensity Grade, Add	2.99	
10 14 53 00-0015	EA 9" x 18" Aluminum Engineer Grade Traffic Sign	39.12	13.58
	For Hi-Intensity Grade, Add	3.59	
10 14 53 00-0016	EA 9" x 24" Aluminum Engineer Grade Traffic Sign	44.80	14.43
	For Hi-Intensity Grade, Add	4.78	
10 14 53 00-0017	EA 9" x 48" Aluminum Engineer Grade Traffic Sign	60.74	14.43
	For Hi-Intensity Grade, Add	9.56	
10 14 53 00-0018	EA 12" x 12" Aluminum Engineer Grade Traffic Sign	37.79	13.58
	For Hi-Intensity Grade, Add	3.19	
10 14 53 00-0019	EA 12" x 18" Aluminum Engineer Grade Traffic Sign	44.80	14.43
	For Hi-Intensity Grade, Add	4.78	
10 14 53 00-0020	EA 12" x 24" Aluminum Engineer Grade Traffic Sign	50.11	14.43
	For Hi-Intensity Grade, Add	6.38	
10 14 53 00-0021	EA 12" x 30" Aluminum Engineer Grade Traffic Sign	55.43	14.43
	For Hi-Intensity Grade, Add	7.97	
10 14 53 00-0022	EA 12" x 36" Aluminum Engineer Grade Traffic Sign	60.74	14.43
	For Hi-Intensity Grade, Add	9.56	
10 14 53 00-0023	EA 18" x 18" Aluminum Engineer Grade Traffic Sign	52.77	14.43
	For Hi-Intensity Grade, Add	7.17	
10 14 53 00-0024	EA 18" x 24" Aluminum Engineer Grade Traffic Sign	60.74	14.43
	For Hi-Intensity Grade, Add	9.56	
10 14 53 00-0025	EA 18" x 30" Aluminum Engineer Grade Traffic Sign	70.41	15.28
	For Hi-Intensity Grade, Add	11.96	
10 14 53 00-0026	EA 18" x 36" Aluminum Engineer Grade Traffic Sign	78.38	15.28
	For Hi-Intensity Grade, Add	14.35	
10 14 53 00-0027	EA 18" x 48" Aluminum Engineer Grade Traffic Sign	101.11	18.67
	For Hi-Intensity Grade, Add	19.13	
10 14 53 00-0028	EA 18" x 54" Aluminum Engineer Grade Traffic Sign	109.08	18.67
	For Hi-Intensity Grade, Add	21.52	
10 14 53 00-0029	EA 24" x 24" Aluminum Engineer Grade Traffic Sign	73.07	15.28
	For Hi-Intensity Grade, Add	12.75	
10 14 53 00-0030	EA 24" x 30" Aluminum Engineer Grade Traffic Sign	83.70	15.28
	For Hi-Intensity Grade, Add	15.94	
10 14 53 00-0031	EA 24" x 36" Aluminum Engineer Grade Traffic Sign	94.32	15.28
	For Hi-Intensity Grade, Add	19.13	
10 14 53 00-0032	EA 24" x 42" Aluminum Engineer Grade Traffic Sign	111.74	18.67
	For Hi-Intensity Grade, Add	22.32	
10 14 53 00-0033	EA 24" x 48" Aluminum Engineer Grade Traffic Sign	122.37	18.67
	For Hi-Intensity Grade, Add	25.51	

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 00-0034	EA	24" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	132.99 28.69	18.67
10 14 53 00-0035	EA	24" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	143.62 31.88	18.67
10 14 53 00-0036	EA	30" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	96.98 19.93	15.28
10 14 53 00-0037	EA	30" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	117.05 23.91	18.67
10 14 53 00-0038	EA	30" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	130.34 27.90	18.67
10 14 53 00-0039	EA	30" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	150.41 31.88	22.07
10 14 53 00-0040	EA	30" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	183.76 39.85	25.46
10 14 53 00-0041	EA	36" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	132.99 28.69	18.67
10 14 53 00-0042	EA	36" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	155.73 33.48	22.07
10 14 53 00-0043	EA	36" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	178.45 38.26	25.46
10 14 53 00-0044	EA	36" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	194.39 43.04	25.46
10 14 53 00-0045	EA	36" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	217.13 47.82	28.86
10 14 53 00-0046	EA	36" x 73" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	258.46 58.19	32.25
10 14 53 00-0047	EA	36" x 78" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	271.74 62.17	32.25
10 14 53 00-0048	EA	36" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	361.62 86.08	37.35
10 14 53 00-0049	EA	42" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	181.10 39.05	25.46
10 14 53 00-0050	EA	48" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	227.76 51.01	28.86
10 14 53 00-0051	EA	48" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	255.80 57.39	32.25
10 14 53 00-0052	EA	48" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	277.05 63.76	32.25
10 14 53 00-0053	EA	48" x 66" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	308.49 70.14	37.35
10 14 53 00-0054	EA	48" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	329.74 76.52	37.35
10 14 53 00-0055	EA	48" x 84" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	379.04 89.27	40.74
10 14 53 00-0056	EA	48" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	421.55 102.02	40.74
10 14 53 00-0057	EA	48" x 102" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	442.80 108.40	40.74
10 14 53 00-0058	EA	48" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	467.46 114.77	42.44
10 14 53 00-0059	EA	60" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	400.30 95.65	40.74
10 14 53 00-0060	EA	72" x 144" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	873.81 229.55	54.32
10 14 53 00-0061	EA	78" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	637.49 165.78	42.44
10 14 53 00-0062		Non-Reflectorized Traffic Signs (10 14 53 00-0001) Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.		
10 14 53 00-0063		Steel Non-Reflectorized Traffic Signs (10 14 53 00-0062)		
10 14 53 00-0064	EA	6" x 12" Steel Non Reflectorized Traffic Sign	31.75	13.58
10 14 53 00-0065	EA	6" x 18" Steel Non Reflectorized Traffic Sign	34.05	13.58
10 14 53 00-0066	EA	9" x 12" Steel Non Reflectorized Traffic Sign	34.05	13.58
10 14 53 00-0067	EA	9" x 15" Steel Non Reflectorized Traffic Sign	35.77	13.58
10 14 53 00-0068	EA	9" x 18" Steel Non Reflectorized Traffic Sign	37.50	13.58
10 14 53 00-0069	EA	9" x 24" Steel Non Reflectorized Traffic Sign	42.64	14.43
10 14 53 00-0070	EA	9" x 48" Steel Non Reflectorized Traffic Sign	56.42	14.43
10 14 53 00-0071	EA	12" x 12" Steel Non Reflectorized Traffic Sign	36.35	13.58
10 14 53 00-0072	EA	12" x 18" Steel Non Reflectorized Traffic Sign	42.64	14.43
10 14 53 00-0073	EA	12" x 24" Steel Non Reflectorized Traffic Sign	47.23	14.43
10 14 53 00-0074	EA	12" x 30" Steel Non Reflectorized Traffic Sign	51.83	14.43
10 14 53 00-0075	EA	12" x 36" Steel Non Reflectorized Traffic Sign	56.42	14.43
10 14 53 00-0076	EA	18" x 18" Steel Non Reflectorized Traffic Sign	49.53	14.43
10 14 53 00-0077	EA	18" x 24" Steel Non Reflectorized Traffic Sign	56.42	14.43
10 14 53 00-0078	EA	18" x 30" Steel Non Reflectorized Traffic Sign	65.01	15.28
10 14 53 00-0079	EA	18" x 36" Steel Non Reflectorized Traffic Sign	71.90	15.28
10 14 53 00-0080	EA	18" x 48" Steel Non Reflectorized Traffic Sign	92.47	18.67
10 14 53 00-0081	EA	18" x 54" Steel Non Reflectorized Traffic Sign	99.36	18.67
10 14 53 00-0082	EA	24" x 24" Steel Non Reflectorized Traffic Sign	67.31	15.28
10 14 53 00-0083	EA	24" x 30" Steel Non Reflectorized Traffic Sign	76.50	15.28
10 14 53 00-0084	EA	24" x 36" Steel Non Reflectorized Traffic Sign	85.68	15.28



Specialties			10
Information Specialties			10 10
Signage			10 14

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
10 14 53 00-0085	EA	24" x 42" Steel Non Reflectorized Traffic Sign.....	101.66	18.67
10 14 53 00-0086	EA	24" x 48" Steel Non Reflectorized Traffic Sign.....	110.85	18.67
10 14 53 00-0087	EA	24" x 54" Steel Non Reflectorized Traffic Sign.....	120.03	18.67
10 14 53 00-0088	EA	24" x 60" Steel Non Reflectorized Traffic Sign.....	129.22	18.67
10 14 53 00-0089	EA	30" x 30" Steel Non Reflectorized Traffic Sign.....	87.98	15.28
10 14 53 00-0090	EA	30" x 36" Steel Non Reflectorized Traffic Sign.....	106.25	18.67
10 14 53 00-0091	EA	30" x 42" Steel Non Reflectorized Traffic Sign.....	117.74	18.67
10 14 53 00-0092	EA	30" x 48" Steel Non Reflectorized Traffic Sign.....	136.01	22.07
10 14 53 00-0093	EA	30" x 60" Steel Non Reflectorized Traffic Sign.....	165.76	25.46
10 14 53 00-0094	EA	36" x 36" Steel Non Reflectorized Traffic Sign.....	120.03	18.67
10 14 53 00-0095	EA	36" x 42" Steel Non Reflectorized Traffic Sign.....	140.61	22.07
10 14 53 00-0096	EA	36" x 48" Steel Non Reflectorized Traffic Sign.....	161.17	25.46
10 14 53 00-0097	EA	36" x 54" Steel Non Reflectorized Traffic Sign.....	174.95	25.46
10 14 53 00-0098	EA	36" x 60" Steel Non Reflectorized Traffic Sign.....	195.53	28.86
10 14 53 00-0099	EA	36" x 73" Steel Non Reflectorized Traffic Sign.....	232.18	32.25
10 14 53 00-0100	EA	36" x 78" Steel Non Reflectorized Traffic Sign.....	243.66	32.25
10 14 53 00-0101	EA	36" x 108" Steel Non Reflectorized Traffic Sign.....	322.74	37.35
10 14 53 00-0102	EA	42" x 42" Steel Non Reflectorized Traffic Sign.....	163.46	25.46
10 14 53 00-0103	EA	48" x 48" Steel Non Reflectorized Traffic Sign.....	204.72	28.86
10 14 53 00-0104	EA	48" x 54" Steel Non Reflectorized Traffic Sign.....	229.88	32.25
10 14 53 00-0105	EA	48" x 60" Steel Non Reflectorized Traffic Sign.....	248.25	32.25
10 14 53 00-0106	EA	48" x 66" Steel Non Reflectorized Traffic Sign.....	276.81	37.35
10 14 53 00-0107	EA	48" x 72" Steel Non Reflectorized Traffic Sign.....	295.18	37.35
10 14 53 00-0108	EA	48" x 84" Steel Non Reflectorized Traffic Sign.....	338.72	40.74
10 14 53 00-0109	EA	48" x 96" Steel Non Reflectorized Traffic Sign.....	375.47	40.74
10 14 53 00-0110	EA	48" x 102" Steel Non Reflectorized Traffic Sign.....	393.84	40.74
10 14 53 00-0111	EA	48" x 108" Steel Non Reflectorized Traffic Sign.....	415.62	42.44
10 14 53 00-0112	EA	60" x 72" Steel Non Reflectorized Traffic Sign.....	357.10	40.74
10 14 53 00-0113	EA	72" x 144" Steel Non Reflectorized Traffic Sign.....	770.13	54.32
10 14 53 00-0114	EA	78" x 96" Steel Non Reflectorized Traffic Sign.....	562.61	42.44
10 14 53 00-0115 Aluminum Non-Reflectorized Traffic Signs (10 14 53 00-0062)				
10 14 53 00-0116	EA	6" x 12" Aluminum Non Reflectorized Traffic Sign.....	31.94	13.58
10 14 53 00-0117	EA	6" x 18" Aluminum Non Reflectorized Traffic Sign.....	34.33	13.58
10 14 53 00-0118	EA	9" x 12" Aluminum Non Reflectorized Traffic Sign.....	34.33	13.58
10 14 53 00-0119	EA	9" x 15" Aluminum Non Reflectorized Traffic Sign.....	36.12	13.58
10 14 53 00-0120	EA	9" x 18" Aluminum Non Reflectorized Traffic Sign.....	37.92	13.58
10 14 53 00-0121	EA	9" x 24" Aluminum Non Reflectorized Traffic Sign.....	43.20	14.43
10 14 53 00-0122	EA	9" x 48" Aluminum Non Reflectorized Traffic Sign.....	57.54	14.43
10 14 53 00-0123	EA	12" x 12" Aluminum Non Reflectorized Traffic Sign.....	36.72	13.58
10 14 53 00-0124	EA	12" x 18" Aluminum Non Reflectorized Traffic Sign.....	43.20	14.43
10 14 53 00-0125	EA	12" x 24" Aluminum Non Reflectorized Traffic Sign.....	47.98	14.43
10 14 53 00-0126	EA	12" x 30" Aluminum Non Reflectorized Traffic Sign.....	52.76	14.43
10 14 53 00-0127	EA	12" x 36" Aluminum Non Reflectorized Traffic Sign.....	57.54	14.43
10 14 53 00-0128	EA	18" x 18" Aluminum Non Reflectorized Traffic Sign.....	50.37	14.43
10 14 53 00-0129	EA	18" x 24" Aluminum Non Reflectorized Traffic Sign.....	57.54	14.43
10 14 53 00-0130	EA	18" x 30" Aluminum Non Reflectorized Traffic Sign.....	66.42	15.28
10 14 53 00-0131	EA	18" x 36" Aluminum Non Reflectorized Traffic Sign.....	73.59	15.28
10 14 53 00-0132	EA	18" x 48" Aluminum Non Reflectorized Traffic Sign.....	94.72	18.67
10 14 53 00-0133	EA	18" x 54" Aluminum Non Reflectorized Traffic Sign.....	101.89	18.67
10 14 53 00-0134	EA	24" x 24" Aluminum Non Reflectorized Traffic Sign.....	68.81	15.28
10 14 53 00-0135	EA	24" x 30" Aluminum Non Reflectorized Traffic Sign.....	78.37	15.28
10 14 53 00-0136	EA	24" x 36" Aluminum Non Reflectorized Traffic Sign.....	87.93	15.28
10 14 53 00-0137	EA	24" x 42" Aluminum Non Reflectorized Traffic Sign.....	104.28	18.67
10 14 53 00-0138	EA	24" x 48" Aluminum Non Reflectorized Traffic Sign.....	113.84	18.67
10 14 53 00-0139	EA	24" x 54" Aluminum Non Reflectorized Traffic Sign.....	123.40	18.67
10 14 53 00-0140	EA	24" x 60" Aluminum Non Reflectorized Traffic Sign.....	132.97	18.67
10 14 53 00-0141	EA	30" x 30" Aluminum Non Reflectorized Traffic Sign.....	90.32	15.28
10 14 53 00-0142	EA	30" x 36" Aluminum Non Reflectorized Traffic Sign.....	109.06	18.67
10 14 53 00-0143	EA	30" x 42" Aluminum Non Reflectorized Traffic Sign.....	121.01	18.67
10 14 53 00-0144	EA	30" x 48" Aluminum Non Reflectorized Traffic Sign.....	139.76	22.07
10 14 53 00-0145	EA	30" x 60" Aluminum Non Reflectorized Traffic Sign.....	170.44	25.46
10 14 53 00-0146	EA	36" x 36" Aluminum Non Reflectorized Traffic Sign.....	123.40	18.67
10 14 53 00-0147	EA	36" x 42" Aluminum Non Reflectorized Traffic Sign.....	144.54	22.07
10 14 53 00-0148	EA	36" x 48" Aluminum Non Reflectorized Traffic Sign.....	165.66	25.46
10 14 53 00-0149	EA	36" x 54" Aluminum Non Reflectorized Traffic Sign.....	180.00	25.46
10 14 53 00-0150	EA	36" x 60" Aluminum Non Reflectorized Traffic Sign.....	201.14	28.86
10 14 53 00-0151	EA	36" x 73" Aluminum Non Reflectorized Traffic Sign.....	239.01	32.25
10 14 53 00-0152	EA	36" x 78" Aluminum Non Reflectorized Traffic Sign.....	250.96	32.25
10 14 53 00-0153	EA	36" x 108" Aluminum Non Reflectorized Traffic Sign.....	332.85	37.35
10 14 53 00-0154	EA	42" x 42" Aluminum Non Reflectorized Traffic Sign.....	168.05	25.46
10 14 53 00-0155	EA	48" x 48" Aluminum Non Reflectorized Traffic Sign.....	210.71	28.86
10 14 53 00-0156	EA	48" x 54" Aluminum Non Reflectorized Traffic Sign.....	236.62	32.25
10 14 53 00-0157	EA	48" x 60" Aluminum Non Reflectorized Traffic Sign.....	255.74	32.25
10 14 53 00-0158	EA	48" x 66" Aluminum Non Reflectorized Traffic Sign.....	285.05	37.35
10 14 53 00-0159	EA	48" x 72" Aluminum Non Reflectorized Traffic Sign.....	304.17	37.35
10 14 53 00-0160	EA	48" x 84" Aluminum Non Reflectorized Traffic Sign.....	349.20	40.74
10 14 53 00-0161	EA	48" x 96" Aluminum Non Reflectorized Traffic Sign.....	387.45	40.74
10 14 53 00-0162	EA	48" x 102" Aluminum Non Reflectorized Traffic Sign.....	406.57	40.74
10 14 53 00-0163	EA	48" x 108" Aluminum Non Reflectorized Traffic Sign.....	429.10	42.44

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 00-0164 EA 60" x 72" Aluminum Non Reflectorized Traffic Sign	368.33	40.74
10 14 53 00-0165 EA 72" x 144" Aluminum Non Reflectorized Traffic Sign	797.09	54.32
10 14 53 00-0166 EA 78" x 96" Aluminum Non Reflectorized Traffic Sign	582.08	42.44
10 14 53 00-0167 Aluminum Street Signs (10 14 53 00-0001) Note: Excludes posts.		
10 14 53 00-0168 Aluminum Engineer Grade Street Signs (10 14 53 00-0167)		
10 14 53 00-0169 EA 6" High, Aluminum Engineer Grade Street Sign	57.52	6.79
10 14 53 00-0170 EA 8" High, Aluminum Engineer Grade Street Sign	65.28	6.79
10 14 53 00-0171 EA 9" High, Aluminum Engineer Grade Street Sign	71.06	6.79
10 14 53 00-0172 Street Sign Accessories (10 14 53 00-0167)		
10 14 53 00-0173 EA Post Cap And Single Bracket For Street Sign.....	17.36	3.39
10 14 53 00-0174 EA Post Cap And Double Bracket For Street Sign	17.36	3.39
10 14 53 00-0175 Sign Posts (10 14 53 00-0001) Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill.		
10 14 53 00-0176 U-Channel Sign Posts (10 14 53 00-0175) Note: Excludes digging and concrete.		
10 14 53 00-0177 Baked Enamel U-Channel Sign Posts (10 14 53 00-0176)		
10 14 53 00-0178 EA 3' To 4' Baked Enamel U-Channel Sign Post Base.....	46.04	13.86
10 14 53 00-0179 EA 6' Baked Enamel U-Channel Sign Post.....	60.42	17.32
10 14 53 00-0180 EA 7' Baked Enamel U-Channel Sign Post.....	72.15	20.79
10 14 53 00-0181 EA 8' Baked Enamel U-Channel Sign Post.....	84.48	24.24
10 14 53 00-0182 EA 10' Baked Enamel U-Channel Sign Post.....	101.94	29.44
10 14 53 00-0183 EA 12' Baked Enamel U-Channel Sign Post.....	104.88	29.44
10 14 53 00-0184 Galvanized Steel U-Channel Sign Posts (10 14 53 00-0176)		
10 14 53 00-0185 EA 3' To 4' Galvanized Steel U-Channel Sign Post Base.....	49.82	13.86
10 14 53 00-0186 EA 6' Galvanized Steel U-Channel Sign Post.....	66.42	17.32
10 14 53 00-0187 EA 7' Galvanized Steel U-Channel Sign Post.....	85.72	20.79
10 14 53 00-0188 EA 8' Galvanized Steel U-Channel Sign Post.....	99.48	24.24
10 14 53 00-0189 EA 10' Galvanized Steel U-Channel Sign Post.....	112.86	29.44
10 14 53 00-0190 EA 12' Galvanized Steel U-Channel Sign Post.....	114.38	29.44
10 14 53 00-0191 Fiberglass Or Composite Plastic U-Channel Sign Posts (10 14 53 00-0176)		
10 14 53 00-0192 EA 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base.....	45.15	13.86
10 14 53 00-0193 EA 6' Fiberglass Or Composite Plastic U-Channel Sign Post.....	58.48	17.32
10 14 53 00-0194 EA 7' Fiberglass Or Composite Plastic U-Channel Sign Post.....	69.81	20.79
10 14 53 00-0195 EA 8' Fiberglass Or Composite Plastic U-Channel Sign Post.....	81.69	24.24
10 14 53 00-0196 EA 10' Fiberglass Or Composite Plastic U-Channel Sign Post.....	96.88	29.44
10 14 53 00-0197 EA 12' Fiberglass Or Composite Plastic U-Channel Sign Post.....	101.88	29.44
10 14 53 00-0198 Tubular Sign Posts (10 14 53 00-0175) Note: Excludes digging and concrete.		
10 14 53 00-0199 2-3/8" Diameter, Galvanized Steel Tubular Sign Post (10 14 53 00-0198)		
10 14 53 00-0200 EA 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	67.04	17.32
10 14 53 00-0201 EA 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	79.56	20.79
10 14 53 00-0202 EA 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	93.98	24.24
10 14 53 00-0203 EA 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	121.07	29.44
10 14 53 00-0204 EA 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	131.37	29.44
10 14 53 00-0205 Square Sign Posts (10 14 53 00-0175) Note: Excludes digging and concrete.		
10 14 53 00-0206 Galvanized Steel Square Sign Posts (10 14 53 00-0205)		
10 14 53 00-0207 EA 3' To 4' Galvanized Steel Square Sign Post Base	50.66	13.86
10 14 53 00-0208 EA 6' Galvanized Steel Square Sign Post	80.63	17.32
10 14 53 00-0209 EA 7' Galvanized Steel Square Sign Post	94.56	20.79
10 14 53 00-0210 EA 8' Galvanized Steel Square Sign Post	110.30	24.24
10 14 53 00-0211 EA 10' Galvanized Steel Square Sign Post	134.69	29.44
10 14 53 00-0212 EA 12' Galvanized Steel Square Sign Post	141.88	29.44
10 14 53 00-0213 Other Sign Posts And Bases (10 14 53 00-0001) Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit.		
10 14 53 00-0214 2.5 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 00-0213)		
10 14 53 00-0215 Base Posts, 2.5 LB/LF, For Breakaway Sign Posts (10 14 53 00-0214)		
10 14 53 00-0216 EA Base Post For 2.5 LB/LF Breakaway Sign Post.....	62.95	16.97



Specialties			10
Information Specialties			10 10
Signage			10 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 00-0217 EA Lap Splice Hardware For 2.5 LB/LF Breakaway Sign Post.....	35.79	13.58
10 14 53 00-0218 Breakaway Sign Posts, 2.5 LB/LF (10 14 53 00-0214)		
10 14 53 00-0219 LF 2.5 LB/LF Breakaway Sign Post.....	7.18	1.70
10 14 53 00-0220 4 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 00-0213)		
10 14 53 00-0221 Base Posts, 4 LB/LF, For Breakaway Sign Posts (10 14 53 00-0220)		
10 14 53 00-0222 EA Base Post For 4 LB/LF Breakaway Sign Post.....	65.42	20.38
10 14 53 00-0223 EA Lap Splice Hardware for 4 LB/LF Breakaway Sign Post.....	35.79	13.58
10 14 53 00-0224 Breakaway Sign Posts, 4 LB/LF (10 14 53 00-0220)		
10 14 53 00-0225 LF 4 LB/LF Breakaway Sign Post.....	8.71	1.70
10 14 53 00-0226 Driven Sign Posts (10 14 53 00-0213)		
10 14 53 00-0227 Driven Posts, 2.5 LB/LF (10 14 53 00-0226)		
10 14 53 00-0228 LF 2.5 LB/LF Driven Post.....	7.86	2.38
10 14 53 00-0229 Driven Posts, 4 LB/LF (10 14 53 00-0226)		
10 14 53 00-0230 LF 4 LB/LF Driven Post.....	9.73	2.72
10 14 53 00-0231 Omni-Directional Breakaway System For Sign Posts And Light Poles (10 14 53 00-0213)		
10 14 53 00-0232 Omni-Directional Breakaway Systems For Signs (10 14 53 00-0231) Note: Break-Safe as manufactured by Trampo Industries. Tasks are organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
10 14 53 00-0233 EA Omni-Directional Breakaway System For 6" To 8" Wide Flange (Trampo B525).....	805.06	
10 14 53 00-0234 EA Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650).....	857.79	
10 14 53 00-0235 EA Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo A14 And A16).....	588.08	
10 14 53 00-0236 EA Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	515.08	
10 14 53 00-0237 EA Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4).....	584.02	
10 14 53 00-0238 EA Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6).....	555.63	
10 14 53 00-0239 EA Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6).....	602.27	
10 14 53 00-0240 Omni-Directional Breakaway Systems For Poles (10 14 53 00-0231) Note: Pole-Safe as Manufactured by Trampo Industries. Tasks are organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retro-fitting existing poles.		
10 14 53 00-0241 EA Omni-Directional Breakaway System For Poles With 5/8" Couplings.....	277.97	
10 14 53 00-0242 EA Omni-Directional Breakaway System For Poles With 3/4" Couplings.....	291.42	
10 14 53 00-0243 EA Omni-Directional Breakaway System For Poles With 1" Couplings.....	302.63	
10 14 53 00-0244 EA Omni-Directional Breakaway System For Poles With 1 1/4" Couplings.....	459.55	
10 14 53 00-0245 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15".....	40.35	
10 14 53 00-0246 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20".....	53.80	
10 14 53 00-0247 Wood Posts (10 14 53 00-0213) Note: The quantity is the total length, including the buried portion. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
10 14 53 00-0248 LF 4" x 4" Pressure Treated Wood Sign Post.....	8.65	
10 14 53 00-0249 Sign Post Accessories (10 14 53 00-0001)		
10 14 53 00-0250 Sign Post Brackets (10 14 53 00-0249)		
10 14 53 00-0251 EA 2-3/8" Outside Diameter, Single Sign Bracket Set.....	22.87	5.10
10 14 53 00-0252 EA 2-3/8" Outside Diameter, Double Sign Bracket Set.....	41.26	8.49
10 14 53 00-0253 EA 10 cm - 37 cm Diameter, Buckle Bracket Set.....	35.57	6.79
10 14 53 00-0254 Sign Post Caps (10 14 53 00-0249)		
10 14 53 00-0255 EA Traffic Sign Post Cap.....	12.68	3.39
10 14 53 00-0256 Sign Post Replacement Bolts (10 14 53 00-0249)		
10 14 53 00-0257 EA Signage Fasteners, 2 Bolts, 2 Nuts And 4 Washers.....	8.78	
10 14 53 00-0258 Reflective Panels For "U" Channel Post (10 14 53 00-0249)		
10 14 53 00-0259 EA 3" x 72" Reflective Panel For "U-Channel" Post..... Note: Diamond grade panel including mounting hardware.	45.56	

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 00-0260 Removal Of Signs (10 14 53) Note: Includes structural supports.		
10 14 53 00-0261 EA >4 To 10 SF Sign Area, Sign Removal	135.81	
10 14 53 00-0262 EA >10 To 20 SF Sign Area, Sign Removal	325.94	
10 14 53 00-0263 EA >20 To 40 SF Sign Area, Sign Removal	488.91	
10 14 53 00-0264 EA >40 To 100 SF Sign Area, Sign Removal	801.74	
10 14 53 00-0265 Remove And Reinstall Signs (10 14 53) Note: Includes structural supports.		
10 14 53 00-0266 EA >4 To 10 SF Sign Area, Removal And Reinstallation Of Sign.....	207.01	
10 14 53 00-0267 EA >10 To 20 SF Sign Area, Removal And Reinstallation Of Sign.....	491.26	
10 14 53 00-0268 EA >20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign.....	735.36	
10 14 53 00-0269 EA >40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign.....	1,204.48	
10 14 53 00-0270 EA Removal And Reinstallation Of Street Sign On Post.....	78.09	
10 14 53 00-0271 EA Removal And Relocation Of Traffic Light.....	280.88	
Note: Excludes electrical hookup.		
10 14 53 00-0272 Traffic Signs (Monterey County) (10 14 53)		
10 14 53 00-0273 EA Roadside Sign-One Post (Monterey County)	293.09	20.79
10 14 53 00-0274 EA Install Roadside Sign Panel On Existing Post (Monterey County)	152.38	
10 80 Other Specialties (10)		
10 81 Pest Control Devices (10 80)		
10 81 13 Bird Control Devices (10 81)		
10 81 13 00-0001 Stainless Steel Spiked Bird Barrier (10 81 13) Note: Stainless steel spikes with flexible polycarbonate base.		
10 81 13 00-0002 LF 2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	6.22	0.74
10 81 13 00-0003 LF 4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	7.50	0.74
10 81 13 00-0004 LF 8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	10.95	0.74
10 81 13 00-0005 Polycarbonate Spiked Bird Barrier (10 81 13) Note: Polycarbonate spikes and base.		
10 81 13 00-0006 LF 3" Wide Polycarbonate Spikes And Base Bird Deterrent System	5.77	0.74
10 81 13 00-0007 LF 5" Wide Polycarbonate Spikes And Base Bird Deterrent System	6.98	0.74
10 81 13 00-0008 LF 8" Wide Polycarbonate Spikes And Base Bird Deterrent System	8.35	0.74
10 81 13 00-0009 Spiked Gutter Or Girder Bird Barrier (10 81 13) Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.		
10 81 13 00-0010 LF Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application	6.48	0.74
10 81 13 00-0011 Coil Bird Barrier (10 81 13) Note: Stainless steel coil.		
10 81 13 00-0012 LF 4" Diameter Stainless Steel Coil Bird Deterrent System	4.74	0.74
10 81 13 00-0013 LF 5" Diameter Stainless Steel Coil Bird Deterrent System	5.54	0.74
10 81 13 00-0014 Spider Bird Barrier (10 81 13) Note: Stainless steel arms with various bases.		
10 81 13 00-0015 EA 2' Diameter Stainless Steel Spider Bird Deterrent System.....	87.49	0.74
10 81 13 00-0016 EA 4' Diameter Stainless Steel Spider Bird Deterrent System.....	127.03	0.74
10 81 13 00-0017 EA 8' Diameter Stainless Steel Spider Bird Deterrent System.....	158.55	0.74
10 81 13 00-0018 Oriented Flexible Flame-resistant Netting (10 81 13) Note: Includes stainless steel rings and plastic ties.		
10 81 13 00-0019 SF 1/8" x 1/8" Mesh Flexible Polypropylene Netting.....	0.63	0.27
Note: To control bird and marine predators.		
10 81 13 00-0020 SF 1/4" x 1/4" Mesh Flexible Polypropylene Netting.....	0.62	0.27
Note: To control bird and marine predators.		
10 81 13 00-0021 SF 1/2" x 1/2" Mesh Flexible Polypropylene Netting.....	0.61	0.27
Note: To control bird and marine predators.		
10 81 13 00-0022 SF 3/4" x 3/4" Mesh Flexible Polypropylene Netting.....	0.60	0.27
Note: To control bird and marine predators.		
10 81 13 00-0023 SF 1" x 1" Mesh Flexible Polypropylene Netting.....	0.60	0.27
Note: To control bird and marine predators.		
10 81 13 00-0024 SF 1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting	0.59	0.27
Note: To control bird and marine predators.		
10 81 13 00-0025 SF 2" x 2" Mesh Flexible Polypropylene Netting.....	0.58	0.27
Note: To control bird and marine predators.		
10 81 13 00-0026 SF 3" x 3" Mesh Flexible Polypropylene Netting.....	0.58	0.27
Note: To control bird and marine predators.		



		Specialties	10	10
		Other Specialties	10 80	
		Pest Control Devices	10 81	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
10 81 13 00-0027	SF	4" x 4" Mesh Flexible Polypropylene Netting	0.57		0.27
Note: To control bird and marine predators.					
10 81 13 00-0028	SF	5/8" x 3/4" Mesh Flexible Polypropylene Netting	0.60		0.27
Note: To control bird and marine predators.					
10 81 13 00-0029	SF	1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting	0.59		0.27
Note: To control bird and marine predators.					
10 81 13 00-0030	EA	Poly Clips For Flexible Netting.....	2.19		
10 81 13 00-0031		Netting Accessories (10 81 13)			
10 81 13 00-0032	EA	2' Zipper For Flexible Netting.....	5.00		
10 81 13 00-0033	EA	4' Zipper For Flexible Netting.....	7.53		
10 81 13 00-0034	EA	6' Zipper For Flexible Netting.....	8.86		
10 81 13 00-0035	EA	8' Zipper For Flexible Netting.....	12.60		

END OF SECTION 10

10	10	Specialties
	10 80	Other Specialties
	10 81	Pest Control Devices



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Equipment			11
Entertainment and Recreation Equipment			11 60
Play Field Equipment And Structures			11 68

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 Equipment				
11 60 Entertainment and Recreation Equipment ⁽¹¹⁾				
11 68 Play Field Equipment And Structures ^(11 60)				
11 68 13 Playground Equipment ^(11 68)				
See CSI section 32 31 13 13-0001 for augering holes and fill for posts.				
11 68 13 00-0001 Standalone Playground Equipment ^(11 68 13)				
11 68 13 00-0002 Ground Socket For Movable Posts ^(11 68 13 00-0001)				
11 68 13 00-0003	PR	Ground Socket For 2-3/8" Post For Playground Equipment	188.47	46.06
11 68 13 00-0004	PR	Ground Socket For 3-1/2" Post For Playground Equipment	270.48	46.06
11 68 13 00-0005 See-Saws ^(11 68 13 00-0001)				
11 68 13 00-0006 Steel See-Saw ^(11 68 13 00-0005)				
11 68 13 00-0007	EA	2 Unit Steel See-Saw.....	1,507.69	283.44
11 68 13 00-0008	EA	4 Unit Steel See-Saw.....	2,346.95	334.96
11 68 13 00-0009	EA	6 Unit Steel See-Saw.....	3,212.00	409.40
11 68 13 00-0010 14' Long Laminated Beam ^(11 68 13 00-0005)				
11 68 13 00-0011	EA	Beam Is Supported By Two 12 In x 12 In Stepping Column Posts	1,513.79	250.63
11 68 13 00-0012	EA	Beam Is Supported By Two 8 In x 8 In Posts.....	1,077.01	223.25
11 68 13 00-0013 Slides ^(11 68 13 00-0001)				
11 68 13 00-0014	EA	8' Long x 4' High Slide With Stainless Steel Bed	1,785.29	324.11
11 68 13 00-0015	EA	12' Long x 6' High Slide With Stainless Steel Bed	2,515.53	460.58
11 68 13 00-0016	EA	16' Long x 8' High Slide With Stainless Steel Bed	2,787.34	511.75
11 68 13 00-0017	EA	20' Long x 10' High Slide With Stainless Steel Bed	3,438.89	566.89
11 68 13 00-0018	EA	6' High, 360 Degree One Piece Molded Polyethylene Slide	5,088.30	891.74
11 68 13 00-0019	EA	7' High, 360 Degree Slide, Stainless Steel Bed	9,912.13	919.93
11 68 13 00-0020	EA	9' High, 360 Degree Slide, Stainless Steel Bed	12,358.90	966.86
11 68 13 00-0021 Whirlers ^(11 68 13 00-0001)				
11 68 13 00-0022	EA	8' Diameter Whirler	3,944.32	614.10
11 68 13 00-0023	EA	10' Diameter Whirler	4,598.78	736.92
11 68 13 00-0024 Other Standalone Playground Equipment ^(11 68 13 00-0001)				
11 68 13 00-0025 Miscellaneous Standalone Playground Equipment ^(11 68 13 00-0024)				
11 68 13 00-0026	EA	Horizontal Ladder	1,215.01	164.12
11 68 13 00-0027	EA	Tether Ball Post.....	212.56	32.07
11 68 13 00-0028	PR	10'-6" Long Multiple Purpose Post.....	330.41	56.70
11 68 13 00-0029	EA	3-Person Fiberglass Golf Tee Shelter Turntable.....	2,711.08	160.21
11 68 13 00-0030	EA	Horizontal Turning Bars, 1 Bar.....	403.68	85.64
11 68 13 00-0031	EA	Horizontal Turning Bars, 2 Bars.....	538.10	102.37
11 68 13 00-0032	EA	Horizontal Turning Bars, 3 Bars.....	724.63	136.48
11 68 13 00-0033	EA	Horizontal Turning Bars, 5 Bars.....	1,052.81	187.66
11 68 13 00-0034	EA	Top Goal Opening With 4 Exit Holes (One Each Side) And 8' Pole.....	1,034.96	78.13
11 68 13 00-0035	EA	Top Goal Opening With 4 Exit Holes (One Each Side) And 10' Pole.....	1,138.54	84.35
11 68 13 00-0036	EA	Coil Spring With Single Riding Aluminum Saddle Devices	1,118.54	90.42
11 68 13 00-0037	EA	"C" Spring With Single Riding Aluminum Saddle Devices	1,156.88	77.80
11 68 13 00-0038	EA	Rubber Spring With Single Riding Aluminum Saddle Devices.....	1,427.79	101.88
11 68 13 00-0039	EA	Coil Spring Assembly Only	292.88	37.46
11 68 13 00-0040	EA	"C" Spring Assembly Only	194.66	24.98
11 68 13 00-0041	EA	Rubber Spring Assembly Only.....	214.47	48.72
11 68 13 00-0042	EA	Footbuck Assembly Only.....	50.64	6.55
11 68 13 00-0043	EA	Replacement Animal Only	715.26	53.09
11 68 13 00-0044	EA	Two Seat, Two Spring Action Cars (4'-8" x 2'-8").....	1,266.21	93.70
11 68 13 00-0045 Freestanding Panels ^(11 68 13 00-0024)				
Note: Rotomolded polyethylene.				
11 68 13 00-0046	EA	Tic-Tac-Toe Panel	539.31	40.13
11 68 13 00-0047	EA	24" Bubble Panel	807.91	60.12
11 68 13 00-0048	EA	Fire Engine Panel	1,185.63	88.23
11 68 13 00-0049	EA	Flat Mirror Panel	948.51	70.62
11 68 13 00-0050	EA	Wavy Mirror Panel	1,403.88	104.54
11 68 13 00-0051	EA	Paint Time Panel	910.73	67.83
11 68 13 00-0052	EA	Phone Time Panel	646.33	48.11
11 68 13 00-0053	EA	Phone Time With Graphic Panel.....	646.33	48.11
11 68 13 00-0054	EA	Race Time Panel	1,133.17	84.35

11 Equipment**11 60 Entertainment and Recreation Equipment****11 68 Play Field Equipment And Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0055 EA Rescue 911 Panel.....	1,149.25	84.35
11 68 13 00-0056 EA Eastern/Central/Western States Panel	619.06	46.06
11 68 13 00-0057 EA Career People Panel.....	702.99	52.34
11 68 13 00-0058 EA Solar System Panel	702.99	52.34
11 68 13 00-0059 EA Animals Panel.....	702.99	52.34
11 68 13 00-0060 Freestanding Panels Uprights (11 68 13 00-0024)		
11 68 13 00-0061 EA 3-1/2" Outside Diameter End Panel Upright.....	173.57	22.52
11 68 13 00-0062 EA 3-1/2" Outside Diameter 90 Degree Upright	188.05	24.37
11 68 13 00-0063 EA 3-1/2" Outside Diameter 180 Degree Upright	188.05	24.37
11 68 13 00-0064 EA 3-1/2" Outside Diameter "T-Shaped" Upright.....	200.10	25.93
11 68 13 00-0065 Coasters (11 68 13 00-0024)		
11 68 13 00-0066 EA 12' Single Metal Coaster With Four Posts.....	4,148.51	272.96
11 68 13 00-0067 EA 18' Single Metal Coaster With Four Posts.....	4,661.39	341.20
11 68 13 00-0068 EA 12' Double Metal Coaster With Four Posts	6,690.67	409.44
11 68 13 00-0069 EA 18' Double Metal Coaster With Four Posts.....	7,637.63	511.81
11 68 13 00-0070 Climbers (11 68 13 00-0024)		
11 68 13 00-0071 EA Tower Climber, 3.17' Diameter x 7.25' High.....	842.80	182.34
11 68 13 00-0072 EA Arch Climber, 2' x 12' x 4.5' High	777.97	223.29
11 68 13 00-0073 EA Arch Climber, 2' x 15' x 5.83' High	835.28	182.34
11 68 13 00-0074 EA Arch Climber, 2' x 17' x 6.58' High	889.55	223.29
11 68 13 00-0075 EA Rainbow Climber, 2' x 10'-5" x 4' High	944.84	182.13
11 68 13 00-0076 EA Rainbow Climber, 2' x 10'-5" x 5' High	1,045.30	182.20
11 68 13 00-0077 EA Rainbow Climber, 2' x 12'-5" x 6' High	1,199.18	182.20
11 68 13 00-0078 EA Rainbow Climber, 2' x 15'-4" x 7' High	1,299.81	182.13
11 68 13 00-0079 EA Double Level Arch Climber, 6' Wide x 12'-6" x 6' High Upper Section / 5' High Lower Section.....	1,564.27	213.25
11 68 13 00-0080 EA 12' Long Horizontal Ladder Climber.....	1,264.77	159.18
11 68 13 00-0081 EA 14' Long Horizontal Ladder Climber.....	1,281.71	159.18
11 68 13 00-0082 EA 16' Long Horizontal Ladder Climber.....	1,393.82	159.18
11 68 13 00-0083 EA Bell Climber, 7'-5" High With Double Bars	1,345.02	204.72
11 68 13 00-0084 EA 2-Way Climber	1,135.15	164.12
11 68 13 00-0085 EA 4-Way Climber	1,743.76	164.12
11 68 13 00-0086 Swings (11 68 13 00-0001)		
11 68 13 00-0087 Two-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail (11 68 13 00-0086)		
Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0088 EA 8' High Top Rail, One Section Two Seats.....	1,106.58	250.63
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	126.38	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	133.95	
11 68 13 00-0089 EA 8' High Top Rail, Two Sections Four Seats.....	1,752.70	358.64
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	201.17	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	217.16	
11 68 13 00-0090 EA 8' High Top Rail, Three Sections, Six Seats	2,429.32	527.72
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	278.53	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	299.44	
11 68 13 00-0091 EA 8' High Top Rail, Four Sections, Eight Seats	3,035.15	614.10
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	348.68	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	377.59	
11 68 13 00-0092 EA 10' High Top Rail, One Section Two Seats.....	1,171.43	250.63
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	134.49	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	145.30	
11 68 13 00-0093 EA 10' High Top Rail, Two Section Four Seats	1,842.09	381.97
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	210.64	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	224.26	
11 68 13 00-0094 EA 10' High Top Rail, Three Sections, Six Seats	2,557.05	593.16
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	291.38	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	306.21	
11 68 13 00-0095 EA 10' High Top Rail, Four Sections, Eight Seats	3,369.19	716.45
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	385.31	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	410.42	
11 68 13 00-0096 Three-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail (11 68 13 00-0086)		
Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0097 EA 8' High Top Rail, One Section, Two Seats.....	1,237.53	221.35
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	143.62	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	161.22	
11 68 13 00-0098 EA 8' High Top Rail, Two Sections, Four Seats.....	1,796.09	321.17
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	208.45	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	234.03	
11 68 13 00-0099 EA 8' High Top Rail, Three Sections, Six Seats	2,396.82	429.53
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	278.13	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	312.06	



Equipment			11
Entertainment and Recreation Equipment			11 60
Play Field Equipment And Structures			11 68

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0100	EA		8' High Top Rail, Four Sections, Eight Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	2,980.88 347.02 393.70	511.75
11 68 13 00-0101	EA		10' High Top Rail, One Section, Two Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	1,395.46 161.96 181.85	249.47
11 68 13 00-0102	EA		10' High Top Rail, One Section Three Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	1,452.74 168.99 191.22	264.54
11 68 13 00-0103	EA		10' High Top Rail, Two Sections, Four Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	1,948.72 226.13 253.71	349.22
11 68 13 00-0104	EA		10' High Top Rail, Two Sections, Six Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	2,323.70 271.28 310.75	402.58
11 68 13 00-0105	EA		10' High Top Rail, Three Section, Six Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	2,593.82 301.00 337.76	464.60
11 68 13 00-0106	EA		10' High Top Rail, Three Sections, Nine Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	3,192.53 373.48 430.74	511.95
11 68 13 00-0107	EA		10' High Top Rail, Four Section, Eight Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	3,304.00 382.29 424.64	614.10
11 68 13 00-0108	EA		12' High Top Rail, One Section Three Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	1,516.36 176.64 200.82	270.96
11 68 13 00-0109	EA		12' High Top Rail, Two Sections, Six Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	2,464.11 287.25 327.39	435.94
11 68 13 00-0110	EA		12' High Top Rail, Three Sections, Nine Seats For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	3,633.08 420.02 465.21	698.24
11 68 13 00-0111			Swing Accessories (11 68 13 00-0086)		
11 68 13 00-0112	EA		Enclosed Tot Seat With Chain And Hardware	337.68	20.57
11 68 13 00-0113	EA		Bucket Seat With Chain And Hardware	280.72	17.11
11 68 13 00-0114	EA		Belt Seat With Chain And Hardware	299.03	18.26
11 68 13 00-0115	EA		Seat With Chain And Hardware	294.95	17.99
11 68 13 00-0116	EA		Wide Seat With Chain And Hardware	311.34	19.00
11 68 13 00-0117	EA		Handi Seat With Chain And Hardware	929.62	56.68
11 68 13 00-0118	LF		0.4 LB/LF Replacement Chain	4.00	0.41
11 68 13 00-0119	LF		1 LB/LF Replacement Chain	7.42	0.81
11 68 13 00-0120	EA		Swing Hanger Replacement	43.36	4.69
11 68 23			Exterior Court Athletic Equipment (11 68)		
11 68 23 13			Exterior Basketball Equipment (11 68 23)		
11 68 23 13-0001			Basketball Systems (11 68 23 13) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0002	EA		4-1/2" Bent Post Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Steel Net Basketball System (Sportsplay 541-616)	1,524.92	193.65
11 68 23 13-0003	EA		5-9/16" Bent Post Galvanized Steel Pole With 6' Extension Style, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00176-230)	2,797.18	213.02
			For Fan Shaped Fiberglass Backboard, Deduct	-133.00	
			For 42" x 72" Perforated Steel Backboard, Add	350.00	
11 68 23 13-0004	EA		4-1/2" Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00164-230)	2,012.54	193.65
			For Fan Shaped Fiberglass Backboard, Deduct	-133.00	
			For 42" x 72" Perforated Steel Backboard, Add	350.00	
11 68 23 13-0005	EA		5-9/16" Galvanized Steel Pole With 6' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00166-230)	2,480.74	213.02
			For Fan Shaped Fiberglass Backboard, Deduct	-133.00	
			For 42" x 72" Perforated Steel Backboard, Add	350.00	
11 68 23 13-0006	EA		Back To Back 4-1/2" Galvanized Steel Pole With 4' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 00184-230)	3,175.48	284.79
			For Fan Shaped Fiberglass Backboard, Deduct	-498.00	
			For 42" x 72" Perforated Steel Backboard, Add	700.00	
11 68 23 13-0007	EA		Back To Back 5-9/16" Galvanized Steel Pole With 6' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 00186-230)	4,119.12	313.27
			For Fan Shaped Fiberglass Backboard, Deduct	-498.00	
			For 42" x 72" Perforated Steel Backboard, Add	700.00	
11 68 23 13-0008			Basketball Components (11 68 23 13) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0009	EA		Anti-Whip, Nylon Cord Basketball Net (Porter Athletic 09608-120)	25.68	6.82
11 68 23 13-0010	EA		Chain Basketball Net (Porter Athletic 00161-000)	42.51	6.82
11 68 23 13-0011	EA		Heavy Duty Goal Ring (Porter Athletic 00235-000)	106.60	34.12
11 68 23 13-0012	EA		Goal Ring For Steel Net (Porter Athletic 00251-H00)	202.79	15.36
11 68 23 13-0013	EA		42" x 72" Rectangular Fully Tempered Glass Basketball Backboard With Steel Frame (Porter Athletic 00204-000)	865.27	29.01
			Note: Includes perimeter and target markings. Excludes pole and goal.		

11 Equipment**11 60 Entertainment and Recreation Equipment****11 68 Play Field Equipment And Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 23 13-0014 EA 42" x 72" Rectangular 11 Gauge Perforated Steel Basketball Backboard (Porter Athletic 01207-300) Note: Includes perimeter and target markings. Excludes pole and goal.	923.02	29.01
11 68 23 13-0015 EA 54" x 39" Fan Shaped Cast Aluminum Basketball Backboard (Porter Athletic 00234-300) Note: Includes perimeter and target markings. Excludes pole and goal.	662.12	25.59
11 68 23 13-0016 EA 54" x 39" Fan Shaped Fiberglass Basketball Backboard (Porter Athletic 00267-000) Note: Includes perimeter and target markings. Excludes pole and goal.	500.43	25.59
11 68 23 33 Tennis Equipment (11 68 23)		
11 68 23 33-0001 Tennis Court Net Posts (11 68 23 33)		
11 68 23 33-0002 PR Round, Powder Coated Steel, Tennis Court Net Posts With External Winder	774.07	116.00
11 68 23 33-0003 PR Round, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	943.85	116.00
11 68 23 33-0004 PR Square, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	972.15	116.00
11 68 23 33-0005 PR Round, Powder Coated Aluminum, Tennis Court Net Posts With External Winder	1,021.08	116.00
11 68 23 33-0006 PR Round, Powder Coated Aluminum, Tennis Court Net Posts With Internal Winder	1,195.31	116.00
11 68 23 33-0007 PR Polyvinyl Chloride (PVC) Ground Sleeves For Tennis Court Net Posts.....	191.64	
11 68 23 33-0008 PR Galvanized Steel Ground Sleeves For Tennis Court Net Posts.....	212.79	
11 68 23 33-0009 Tennis Court Nets (11 68 23 33)		
11 68 23 33-0010 EA 42' Length, Single Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net.....	389.44	114.63
11 68 23 33-0011 EA 42' Length, Double Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net	423.20	114.63
11 68 23 33-0012 EA 42' Length, Anti-Vandal, Aluminum Coated Flexible Steel Mesh, Tennis Court Net	886.80	176.38
11 68 23 33-0013 EA Galvanized Steel Anchor For Tennis Court Net Center Strap.....	51.86	
11 68 33 Athletic Field Equipment (11 68)		
11 68 33 13 Football Field Equipment (11 68 33)		
11 68 33 13-0001 Football Goal Posts (11 68 33 13)		
Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 13-0002 PR Double Steel Football Goal Posts, "H Shape".....	3,105.02	307.09
11 68 33 13-0003 PR Vertical Style Goal Post, Single In Ground Mounting, Steel With 20' Uprights.....	4,503.50	459.73
11 68 33 13-0004 PR Gooseneck (Offset) Style Goal Post, Single In Ground Mounting, Steel, With 20' Uprights.....	5,381.28	551.67
11 68 33 23 Soccer And Field Hockey Equipment (11 68 33)		
11 68 33 23-0001 Soccer Goal Posts (11 68 33 23)		
Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 23-0002 PR Regulation Soccer Goal Posts	2,933.64	204.70
11 68 33 23-0003 PR Combination Football/Soccer Goal Post	3,543.09	307.09
11 68 33 33 Baseball Field Equipment (11 68 33)		
11 68 33 33-0001 Bases (11 68 33 33)		
11 68 33 33-0002 SET Bases For Baseball Or Softball	334.20	
11 80 Facility Maintenance and Operation Equipment (11)		
11 82 Facility Solid Waste Handling Equipment (11 80)		
11 82 19 Packaged Incinerators (11 82)		
11 82 19 00-0001 Electric Incinerator (11 82 19)		
11 82 19 00-0002 EA Electric Package Incinerator, 100 LB/Hour	22,377.09	820.53
11 82 19 00-0003 EA Electric Package Incinerator, 400 LB/Hour	45,765.58	1,641.06
11 82 19 00-0004 EA Electric Package Incinerator, 1,000 LB/Hour	153,038.20	2,461.59
11 82 26 Facility Waste Compactors (11 82)		
11 82 26 00-0001 110 Volt Compactors (11 82 26)		
11 82 26 00-0002 EA Waste Compactor, 110 Volt At 75 LB/Hour.....	12,183.23	424.11
11 82 26 00-0003 EA Waste Compactor, 110 Volt At 250 LB/Hour.....	15,509.98	1,017.87
11 82 26 00-0004 230 Volt Compactors (11 82 26)		
11 82 26 00-0005 EA Waste Compactor, 230 Volt At 600 LB/Hour Hand Fed	15,656.20	1,357.17
11 82 26 00-0006 EA Waste Compactor, 230 Volt At 600 LB/Hour Chute Fed	17,786.34	1,781.28
11 82 26 00-0007 Trash Compactors (11 82 26)		
11 82 26 00-0008 EA Trash Compactor, Small	3,693.67	237.28
11 82 26 00-0009 EA Trash Compactor, Large	4,566.30	268.51



		Equipment	11	11
		Facility Maintenance and Operation Equipment	11 80	
		Facility Solid Waste Handling Equipment	11 82	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST

END OF SECTION 11

11	11	Equipment
	11 80	Facility Maintenance and Operation Equipment
	11 82	Facility Solid Waste Handling Equipment



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Special Construction		13
Integrated Construction		13 40
Facility Protection		13 47

13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

13 Special Construction

13 40 Integrated Construction ⁽¹³⁾

13 47 Facility Protection ^(13 40)

13 47 13 Cathodic Protection ^(13 47)

13 47 13 13 Cathodic Protection for Underground and Submerged Piping ^(13 47 13)

13 47 13 13-0001 Anodes ^(13 47 13 13)

13 47 13 13-0002 Magnesium Type, Conventional ^(13 47 13 13-0001)

13 47 13 13-0003	EA	9 LB Magnesium Type Anodes.....	282.96	129.94
13 47 13 13-0004	EA	17 LB Magnesium Type Anodes.....	415.88	187.81
13 47 13 13-0005	EA	32 LB Magnesium Type Anode.....	556.24	241.60
13 47 13 13-0006	EA	48 LB Magnesium Type Anode.....	787.54	338.05

13 47 13 13-0007 Graphite Type ^(13 47 13 13-0001) Note: Includes epoxy cap.

13 47 13 13-0008	EA	3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap	420.23	185.69
13 47 13 13-0009	EA	4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap	632.03	259.30
13 47 13 13-0010	EA	6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap	449.92	162.28
13 47 13 13-0011	EA	6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap	664.41	216.64

13 47 13 13-0012 High Silicon Cast Iron Type ^(13 47 13 13-0001)

13 47 13 13-0013	EA	2.66" x 84" High Silicon Cast Iron Anode, 70 LB	1,298.50	259.30

13 47 13 13-0014 Metal Oxide Type ^(13 47 13 13-0001)

13 47 13 13-0015	EA	1" x 60" Mixed Metal Oxide Anode, 5 LB	651.88	129.94

Note: Includes center connected #8 HMWPE/HALAR Lead wire.

13 47 13 13-0016 Rectifiers ^(13 47 13 13)

13 47 13 13-0017 Air Cooled, Silicon Type ^(13 47 13 13-0016)

13 47 13 13-0018	EA	Air Cooled Rectifiers, 28 Volt, 10 Amp Silicon Type	1,404.16	263.51
13 47 13 13-0019	EA	Air Cooled Rectifiers, 20 Volt / 20 Amp Silicon Type	1,513.62	263.51

13 47 13 13-0020 Oil Immersed, Silicon Type ^(13 47 13 13-0016)

13 47 13 13-0021	EA	Oil Immersed Rectifiers, 28 Volt, 10 Amp Silicon Type.....	2,094.24	304.69
13 47 13 13-0022	EA	Oil Immersed Rectifiers, 20 Volt / 20 Amp Silicon Type.....	2,211.52	304.69

13 47 13 13-0023 Anode Backfill ^(13 47 13 13)

13 47 13 13-0024	LB	Anode Backfill, Coke Breeze	0.85	0.33

13 47 13 13-0025 Cathodic Protection Cable ^(13 47 13 13)

13 47 13 13-0026	MLF	Cathodic Protection Cable, OR2 - No 8	1,658.95	649.10
13 47 13 13-0027	MLF	Cathodic Protection Cable, OR2 - No 6	1,818.79	649.10
13 47 13 13-0028	MLF	Cathodic Protection Cable, OR2 - No 4	2,058.54	649.10
13 47 13 13-0029	MLF	Cathodic Protection Cable, OR2 - No 2	2,458.13	649.10
13 47 13 13-0030	MLF	Cathodic Protection Cable, OR2 - No 1	3,026.18	715.18
13 47 13 13-0031	MLF	Cathodic Protection Cable, OR2-No 1/0	3,325.87	715.18
13 47 13 13-0032	MLF	Cathodic Protection Cable, OR2-No 2/0	3,825.36	715.18
13 47 13 13-0033	MLF	Cathodic Protection Cable, OR2-No 4/0	5,152.38	779.59

13 47 13 13-0034 Cathodic Test Stations ^(13 47 13 13)

13 47 13 13-0035 Flush Curb Box Type With Lockable Cover And Terminal Box ^(13 47 13 13-0034)

13 47 13 13-0036	EA	Cathodic Test Station, Flush Curb Type With Lockable Cover	201.09	75.94

13 47 13 16 Cathodic Protection For Underground Storage Tanks ^(13 47 13)

See CSI section 13 47 13 13-0000 for cathodic protection for tanks.

END OF SECTION 13

13	13	Special Construction
	13 40	Integrated Construction
	13 47	Facility Protection



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Plumbing			22
Common Work Results for Plumbing			22 05
General-Duty Valves For Plumbing Piping			22 05 23

22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 05 Common Work Results for Plumbing (22)

22 05 23 General-Duty Valves For Plumbing Piping (22 05)

22 05 23 00-0001 Earthquake-Sensitive Gas Shut-Off Valve (22 05 23)

22 05 23 00-0002 0.5 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0001)

22 05 23 00-0003	EA	3/4" 0.5 PSI Threaded Earthquake Gas Shutoff Valve	176.39	10.18
22 05 23 00-0004	EA	1" 0.5 PSI Threaded Earthquake Gas Shutoff Valve	198.60	11.57

22 05 23 00-0005 7 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0001)

22 05 23 00-0006	EA	1-1/4" 7 PSI Threaded Earthquake Gas Shutoff Valve	230.34	12.31
22 05 23 00-0007	EA	1-1/2" 7 PSI Threaded Earthquake Gas Shutoff Valve	314.76	14.25

22 05 23 00-0008 60 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0001)

22 05 23 00-0009	EA	3/4" 60 PSI Threaded Earthquake Gas Shutoff Valve	221.35	10.18
22 05 23 00-0010	EA	1" 60 PSI Threaded Earthquake Gas Shutoff Valve	229.82	11.57
22 05 23 00-0011	EA	1-1/4" 60 PSI Threaded Earthquake Gas Shutoff Valve	255.32	12.31
22 05 23 00-0012	EA	1-1/2" 60 PSI Threaded Earthquake Gas Shutoff Valve	352.22	14.25
22 05 23 00-0013	EA	2" 60 PSI Threaded Earthquake Gas Shutoff Valve	833.55	16.85
22 05 23 00-0014	EA	2-1/2" 60 PSI Threaded Earthquake Gas Shutoff Valve	987.55	22.67
22 05 23 00-0015	EA	3" 60 PSI Threaded Earthquake Gas Shutoff Valve	1,286.40	26.42
22 05 23 00-0016	EA	4" 60 PSI Threaded Earthquake Gas Shutoff Valve	1,491.80	29.82

22 05 23 00-0017 60 PSI Flanged Earthquake Gas Shutoff Valves (22 05 23 00-0001)

22 05 23 00-0018	EA	2" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	1,153.47	123.39
22 05 23 00-0019	EA	3" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	1,424.05	144.85
22 05 23 00-0020	EA	4" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	1,990.46	242.84
22 05 23 00-0021	EA	6" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	3,298.10	289.32
22 05 23 00-0022	EA	8" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	9,077.34	369.69

22 05 23 00-0023 Regulators, Clay Valve (22 05 23)

22 05 23 00-0024	EA	4" Regulator - Clay Valve.....	1,229.90	
22 05 23 00-0025	EA	8" Regulator - Clay Valve.....	1,669.31	
22 05 23 00-0026	EA	10" Regulator - Clay Valve.....	2,300.94	
22 05 23 00-0027	EA	12" Regulator - Clay Valve.....	2,823.69	
22 05 23 00-0028	EA	18" Regulator - Clay Valve.....	4,758.61	
22 05 23 00-0029	EA	24" Regulator - Clay Valve.....	7,659.71	

22 05 76 Facility Drainage Piping Cleanouts (22 05)

22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover (22 05 76)

Note: For floor installation.

22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover (22 05 76 00-0001)

22 05 76 00-0003	EA	2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	381.55	49.24
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0004	EA	3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	418.26	61.75
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0005	EA	4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	520.58	74.61
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0006 EA 5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	730.56	83.49
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007 EA 6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	890.62	90.44
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0008 Cast Iron Heavy Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)		
22 05 76 00-0009 EA 2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	434.47	49.24
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010 EA 3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	471.96	61.65
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011 EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	574.34	74.61
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012 EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	784.37	83.49
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	944.35	90.44
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)		
Note: Cover and screw only.		
22 05 76 00-0015 Round Access Cover, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed	62.77	15.46
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed	68.95	18.51
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed	86.18	20.82
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed	137.84	23.14
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed	201.27	25.46
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover	182.05	15.46
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover	255.00	16.20
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	



Plumbing		22
Common Work Results for Plumbing		22 05
Facility Drainage Piping Cleanouts		22 05 76

22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0024	EA		10" x 10" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	272.25 19.50 22.50	17.12
22 05 76 00-0025	EA		14" x 14" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	304.88 19.50 22.50	19.44
22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014) Note: Cover and screw only.					
22 05 76 00-0027	EA		6" x 6" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	182.05 19.50 22.50	15.46
22 05 76 00-0028	EA		8" x 8" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	255.00 19.50 22.50	16.20
22 05 76 00-0029	EA		10" x 10" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	272.25 19.50 22.50	17.12
22 05 76 00-0030	EA		12" x 12" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	304.88 19.50 22.50	19.44
22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014) Note: Cover and screw only.					
22 05 76 00-0032	EA		6" x 6" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	177.15 19.50 22.50	15.46
22 05 76 00-0033	EA		8" x 8" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	238.90 19.50 22.50	16.20
22 05 76 00-0034	EA		10" x 10" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	331.75 19.50 22.50	17.12
22 05 76 00-0035	EA		12" x 12" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	400.08 19.50 22.50	19.44
22 05 76 00-0036 Cast Iron Cleanout Tee (22 05 76)					
22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.					
22 05 76 00-0038	EA		2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	275.71 19.50 59.20	49.24
22 05 76 00-0039	EA		3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	319.08 19.50 59.20	61.65
22 05 76 00-0040	EA		4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	412.22 19.50 59.20	74.61
22 05 76 00-0041	EA		6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	919.15 19.50 59.20	90.44
22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.					
22 05 76 00-0043	EA		2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	452.95 19.50 59.20	49.24
22 05 76 00-0044	EA		3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	496.32 19.50 59.20	61.65
22 05 76 00-0045	EA		4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	577.70 19.50 59.20	74.61
22 05 76 00-0046	EA		6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,158.55 19.50 59.20	90.44
22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)					
22 05 76 00-0048	EA		2" Cleanout Tee With Cast Bronze Screw Plug	225.86	40.27
22 05 76 00-0049	EA		3" Cleanout Tee With Cast Bronze Screw Plug	251.74	43.97
22 05 76 00-0050	EA		4" Cleanout Tee With Cast Bronze Screw Plug	334.95	57.85
22 05 76 00-0051	EA		5" Cleanout Tee With Cast Bronze Screw Plug	489.80	68.50
22 05 76 00-0052	EA		6" Cleanout Tee With Cast Bronze Screw Plug	808.79	81.00
22 05 76 00-0053 Removable Cleanout Plug (22 05 76)					

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 05 76 00-0054 Threaded Bronze Plugs (22 05 76 00-0053)					
22 05 76 00-0055	EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug.....	38.63		11.57	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0056	EA 2-1/2" Threaded Bronze Plug.....	44.68		12.58	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0057	EA 3" Threaded Bronze Plug.....	67.72		13.88	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0058	EA 3-1/2" Threaded Bronze Plug.....	76.56		16.20	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0059	EA 4" Threaded Bronze Plug.....	86.79		18.51	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0060	EA 5" Threaded Bronze Plug.....	115.93		20.82	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0061	EA 6" Threaded Bronze Plug.....	161.85		23.14	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0062	EA 8" Threaded Bronze Plug.....	257.41		25.46	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0063	EA 10" Threaded Bronze Plug.....	360.04		27.77	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0064 Threaded Brass Plugs (22 05 76 00-0053)					
22 05 76 00-0065	EA 1-1/2" Threaded Brass Plug, Raised Head.....	28.70		11.57	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0066	EA 2" Threaded Brass Plug, Raised Head.....	29.66		11.57	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0067	EA 2-1/2" Threaded Brass Plug, Raised Head.....	32.64		12.58	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0068	EA 3" Threaded Brass Plug, Raised Head.....	37.51		13.88	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0069	EA 3-1/2" Threaded Brass Plug, Raised Head.....	44.76		16.20	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0070	EA 4" Threaded Brass Plug, Raised Head.....	53.77		18.51	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0071	EA 4-1/2" Threaded Brass Plug, Raised Head.....	58.24		19.50	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0072	EA 5" Threaded Brass Plug, Raised Head.....	63.33		20.82	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0073	EA 6" Threaded Brass Plug, Raised Head.....	91.42		23.14	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0074	EA 1-1/2" Threaded Brass Plug, Countersunk Head.....	27.94		11.57	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0075	EA 2" Threaded Brass Plug, Countersunk Head.....	29.01		11.57	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0076	EA 2-1/2" Threaded Brass Plug, Countersunk Head.....	34.74		12.58	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0077	EA 3" Threaded Brass Plug, Countersunk Head.....	37.82		13.88	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0078	EA 3-1/2" Threaded Brass Plug, Countersunk Head.....	43.85		16.20	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0079	EA 4" Threaded Brass Plug, Countersunk Head.....	52.35		18.51	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0080	EA 5" Threaded Brass Plug, Countersunk Head.....	62.55		20.82	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0081	EA 6" Threaded Brass Plug, Countersunk Head.....	78.83		23.14	
	For Plug Tapped For Center Screw, Add	9.50			
22 07 Plumbing Insulation (22)					
22 07 19 Plumbing Piping Insulation (22 07)					
22 07 19 00-0001	Insulation Protective Jacketing (22 07 19)				
	Note: Jacketing only and must be added to insulation prices.				
22 07 19 00-0002	Aluminum Insulation Protective Jacketing With Bands (22 07 19 00-0001)				
22 07 19 00-0003	Aluminum Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0002)				
22 07 19 00-0004	SF 0.006" Aluminum Insulation Jacket With Bands.....	13.89		5.98	
22 07 19 00-0005	SF 0.016" Aluminum Insulation Jacket With Bands.....	14.25		5.98	
22 07 19 00-0006 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)					
22 07 19 00-0007	LF 1/2" ID, 0.016" Aluminum Insulation Jacketing.....	7.08		1.70	
	For Stucco Embossed, Add	0.00			
	For Corrugated, Add	0.01			
22 07 19 00-0008	LF 3/4" ID, 0.016" Aluminum Insulation Jacketing.....	7.31		1.74	
	For Stucco Embossed, Add	0.00			
	For Corrugated, Add	0.01			
22 07 19 00-0009	LF 1" ID, 0.016" Aluminum Insulation Jacketing.....	7.57		1.78	
	For Stucco Embossed, Add	0.00			
	For Corrugated, Add	0.01			



	Plumbing	22
	Plumbing Insulation	22 07
	Plumbing Piping Insulation	22 07 19

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0010	LF	1-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	7.83 0.01 0.01	1.82
22 07 19 00-0011	LF	1-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	8.02 0.01 0.02	1.85
22 07 19 00-0012	LF	1-3/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	8.22 0.01 0.02	1.87
22 07 19 00-0013	LF	2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	8.45 0.01 0.02	1.91
22 07 19 00-0014	LF	2-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	8.71 0.01 0.02	1.95
22 07 19 00-0015	LF	2-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	8.97 0.01 0.02	1.99
22 07 19 00-0016	LF	2-3/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	9.19 0.01 0.03	2.03
22 07 19 00-0017	LF	3" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	9.47 0.01 0.03	2.07
22 07 19 00-0018	LF	3-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	9.73 0.01 0.03	2.12
22 07 19 00-0019	LF	3-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	10.02 0.01 0.03	2.17
22 07 19 00-0020	LF	3-3/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	10.25 0.01 0.04	2.21
22 07 19 00-0021	LF	4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	10.56 0.02 0.04	2.26
22 07 19 00-0022	LF	4-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	10.86 0.02 0.04	2.32
22 07 19 00-0023	LF	4-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	11.21 0.02 0.04	2.37
22 07 19 00-0024	LF	4-3/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	11.48 0.02 0.04	2.42
22 07 19 00-0025	LF	5" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	11.82 0.02 0.05	2.48
22 07 19 00-0026	LF	5-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	12.18 0.02 0.05	2.56
22 07 19 00-0027	LF	5-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	12.47 0.02 0.05	2.62
22 07 19 00-0028	LF	5-3/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	12.87 0.02 0.05	2.69
22 07 19 00-0029	LF	6" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	13.27 0.02 0.06	2.77
22 07 19 00-0030	LF	6-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	13.53 0.02 0.06	2.81
22 07 19 00-0031	LF	6-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	13.79 0.02 0.06	2.85
22 07 19 00-0032	LF	7" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	14.22 0.03 0.06	2.92
22 07 19 00-0033	LF	7-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	14.58 0.03 0.07	2.99
22 07 19 00-0034	LF	7-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	14.86 0.03 0.07	3.04
22 07 19 00-0035	LF	8" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	15.24 0.03 0.07	3.09
22 07 19 00-0036	LF	8-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	15.60 0.03 0.08	3.14
22 07 19 00-0037	LF	9" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	16.11 0.03 0.08	3.22

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0038	LF	9-1/2" ID, 0.016" Aluminum Insulation Jacketing	16.51	3.28
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.09	
22 07 19 00-0039	LF	10" ID, 0.016" Aluminum Insulation Jacketing.....	16.91	3.33
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.09	
22 07 19 00-0040	LF	10-1/2" ID, 0.016" Aluminum Insulation Jacketing	17.34	3.39
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.09	
22 07 19 00-0041	LF	11" ID, 0.016" Aluminum Insulation Jacketing.....	17.88	3.49
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.10	
22 07 19 00-0042	LF	11-1/2" ID, 0.016" Aluminum Insulation Jacketing	18.33	3.55
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.10	
22 07 19 00-0043	LF	12" ID, 0.016" Aluminum Insulation Jacketing.....	18.78	3.62
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.11	
22 07 19 00-0044	LF	12-1/2" ID, 0.016" Aluminum Insulation Jacketing	19.38	3.73
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.11	
22 07 19 00-0045	LF	13" ID, 0.016" Aluminum Insulation Jacketing.....	19.71	3.77
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.12	
22 07 19 00-0046	LF	14" ID, 0.016" Aluminum Insulation Jacketing.....	20.22	3.81
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.12	
22 07 19 00-0047	LF	15" ID, 0.016" Aluminum Insulation Jacketing.....	20.87	3.89
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.13	
22 07 19 00-0048	LF	16" ID, 0.016" Aluminum Insulation Jacketing.....	21.39	3.93
		For Stucco Embossed, Add	0.06	
		For Corrugated, Add	0.14	
22 07 19 00-0049	LF	17" ID, 0.016" Aluminum Insulation Jacketing.....	22.06	4.01
		For Stucco Embossed, Add	0.06	
		For Corrugated, Add	0.15	
22 07 19 00-0050	LF	18" ID, 0.016" Aluminum Insulation Jacketing.....	22.49	4.05
		For Stucco Embossed, Add	0.06	
		For Corrugated, Add	0.16	
22 07 19 00-0051	LF	19" ID, 0.016" Aluminum Insulation Jacketing.....	23.30	4.14
		For Stucco Embossed, Add	0.07	
		For Corrugated, Add	0.17	
22 07 19 00-0052	LF	20" ID, 0.016" Aluminum Insulation Jacketing.....	23.84	4.19
		For Stucco Embossed, Add	0.07	
		For Corrugated, Add	0.18	
22 07 19 00-0053	LF	21" ID, 0.016" Aluminum Insulation Jacketing.....	24.56	4.30
		For Stucco Embossed, Add	0.07	
		For Corrugated, Add	0.19	
22 07 19 00-0054	LF	22" ID, 0.016" Aluminum Insulation Jacketing.....	25.11	4.35
		For Stucco Embossed, Add	0.08	
		For Corrugated, Add	0.19	
22 07 19 00-0055	LF	23" ID, 0.016" Aluminum Insulation Jacketing.....	25.87	4.45
		For Stucco Embossed, Add	0.08	
		For Corrugated, Add	0.20	
22 07 19 00-0056	LF	24" ID, 0.016" Aluminum Insulation Jacketing.....	26.44	4.50
		For Stucco Embossed, Add	0.08	
		For Corrugated, Add	0.21	
22 07 19 00-0057		20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0058	LF	1/2" ID, 0.020" Aluminum Insulation Jacketing.....	7.83	1.87
		For Stucco Embossed, Add	0.00	
		For Corrugated, Add	0.01	
22 07 19 00-0059	LF	3/4" ID, 0.020" Aluminum Insulation Jacketing.....	8.12	1.91
		For Stucco Embossed, Add	0.00	
		For Corrugated, Add	0.01	
22 07 19 00-0060	LF	1" ID, 0.020" Aluminum Insulation Jacketing.....	8.41	1.95
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.01	
22 07 19 00-0061	LF	1-1/4" ID, 0.020" Aluminum Insulation Jacketing	8.71	2.00
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.02	
22 07 19 00-0062	LF	1-1/2" ID, 0.020" Aluminum Insulation Jacketing	8.93	2.03
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.02	
22 07 19 00-0063	LF	1-3/4" ID, 0.020" Aluminum Insulation Jacketing	9.17	2.06
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.02	
22 07 19 00-0064	LF	2" ID, 0.020" Aluminum Insulation Jacketing.....	9.44	2.10
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.03	
22 07 19 00-0065	LF	2-1/4" ID, 0.020" Aluminum Insulation Jacketing	9.73	2.15
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.03	



	Plumbing	22
	Plumbing Insulation	22 07
	Plumbing Piping Insulation	22 07 19

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0066	LF	2-1/2" ID, 0.020" Aluminum Insulation Jacketing	10.03	2.19
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.03	
22 07 19 00-0067	LF	2-3/4" ID, 0.020" Aluminum Insulation Jacketing	10.29	2.23
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.03	
22 07 19 00-0068	LF	3" ID, 0.020" Aluminum Insulation Jacketing	10.60	2.28
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.04	
22 07 19 00-0069	LF	3-1/4" ID, 0.020" Aluminum Insulation Jacketing	10.92	2.33
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.04	
22 07 19 00-0070	LF	3-1/2" ID, 0.020" Aluminum Insulation Jacketing	11.25	2.38
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.04	
22 07 19 00-0071	LF	3-3/4" ID, 0.020" Aluminum Insulation Jacketing	11.53	2.43
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.05	
22 07 19 00-0072	LF	4" ID, 0.020" Aluminum Insulation Jacketing	11.88	2.48
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.05	
22 07 19 00-0073	LF	4-1/4" ID, 0.020" Aluminum Insulation Jacketing	12.22	2.56
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.05	
22 07 19 00-0074	LF	4-1/2" ID, 0.020" Aluminum Insulation Jacketing	12.61	2.62
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.05	
22 07 19 00-0075	LF	4-3/4" ID, 0.020" Aluminum Insulation Jacketing	12.92	2.67
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.06	
22 07 19 00-0076	LF	5" ID, 0.020" Aluminum Insulation Jacketing	13.31	2.74
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.06	
22 07 19 00-0077	LF	5-1/4" ID, 0.020" Aluminum Insulation Jacketing	13.72	2.82
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.06	
22 07 19 00-0078	LF	5-1/2" ID, 0.020" Aluminum Insulation Jacketing	14.07	2.87
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.06	
22 07 19 00-0079	LF	5-3/4" ID, 0.020" Aluminum Insulation Jacketing	14.52	2.96
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.07	
22 07 19 00-0080	LF	6" ID, 0.020" Aluminum Insulation Jacketing	14.98	3.04
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.07	
22 07 19 00-0081	LF	6-1/4" ID, 0.020" Aluminum Insulation Jacketing	15.27	3.09
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.07	
22 07 19 00-0082	LF	6-1/2" ID, 0.020" Aluminum Insulation Jacketing	15.57	3.14
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.08	
22 07 19 00-0083	LF	7" ID, 0.020" Aluminum Insulation Jacketing	16.07	3.21
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.08	
22 07 19 00-0084	LF	7-1/4" ID, 0.020" Aluminum Insulation Jacketing	16.48	3.29
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.08	
22 07 19 00-0085	LF	7-1/2" ID, 0.020" Aluminum Insulation Jacketing	16.81	3.34
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.09	
22 07 19 00-0086	LF	8" ID, 0.020" Aluminum Insulation Jacketing	17.26	3.40
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.09	
22 07 19 00-0087	LF	8-1/2" ID, 0.020" Aluminum Insulation Jacketing	17.69	3.45
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.10	
22 07 19 00-0088	LF	9" ID, 0.020" Aluminum Insulation Jacketing	18.26	3.54
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.10	
22 07 19 00-0089	LF	9-1/2" ID, 0.020" Aluminum Insulation Jacketing	18.73	3.60
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.11	
22 07 19 00-0090	LF	10" ID, 0.020" Aluminum Insulation Jacketing	19.22	3.67
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.11	
22 07 19 00-0091	LF	10-1/2" ID, 0.020" Aluminum Insulation Jacketing	19.70	3.73
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.12	
22 07 19 00-0092	LF	11" ID, 0.0106 Aluminum Insulation Jacketing.....	20.34	3.84
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.12	
22 07 19 00-0093	LF	11-1/2" ID, 0.020" Aluminum Insulation Jacketing	20.86	3.91
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.13	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0094	LF	12" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.38 0.05 0.14	3.98
22 07 19 00-0095	LF	12-1/2" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.08 0.06 0.14	4.10
22 07 19 00-0096	LF	13" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.46 0.06 0.15	4.14
22 07 19 00-0097	LF	14" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.08 0.06 0.16	4.19
22 07 19 00-0098	LF	15" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.86 0.07 0.17	4.28
22 07 19 00-0099	LF	16" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.49 0.07 0.18	4.33
22 07 19 00-0100	LF	17" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.30 0.08 0.19	4.42
22 07 19 00-0101	LF	18" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.79 0.08 0.20	4.47
22 07 19 00-0102	LF	19" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.77 0.09 0.21	4.57
22 07 19 00-0103	LF	20" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.43 0.09 0.22	4.62
22 07 19 00-0104	LF	21" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.28 0.09 0.24	4.72
22 07 19 00-0105	LF	22" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.94 0.10 0.25	4.78
22 07 19 00-0106	LF	23" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.84 0.10 0.26	4.89
22 07 19 00-0107	LF	24" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.51 0.11 0.27	4.95
22 07 19 00-0108		24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0109	LF	1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.59 0.00 0.01	2.03
22 07 19 00-0110	LF	3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.91 0.01 0.01	2.08
22 07 19 00-0111	LF	1" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.23 0.01 0.02	2.13
22 07 19 00-0112	LF	1-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.57 0.01 0.02	2.18
22 07 19 00-0113	LF	1-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.83 0.01 0.02	2.21
22 07 19 00-0114	LF	1-3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.09 0.01 0.03	2.25
22 07 19 00-0115	LF	2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.41 0.01 0.03	2.29
22 07 19 00-0116	LF	2-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.74 0.01 0.03	2.34
22 07 19 00-0117	LF	2-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.09 0.02 0.04	2.39
22 07 19 00-0118	LF	2-3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.37 0.02 0.04	2.43
22 07 19 00-0119	LF	3" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.73 0.02 0.04	2.48
22 07 19 00-0120	LF	3-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.08 0.02 0.05	2.55
22 07 19 00-0121	LF	3-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.45 0.02 0.05	2.61



	Plumbing	22	
	Plumbing Insulation	22 07	22
	Plumbing Piping Insulation	22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0122	LF	3-3/4" ID, 0.024" Aluminum Insulation Jacketing	.....	12.76	2.66
		For Stucco Embossed, Add	.....	0.02	
		For Corrugated, Add	.....	0.05	
22 07 19 00-0123	LF	4" ID, 0.024" Aluminum Insulation Jacketing	.....	13.15	2.72
		For Stucco Embossed, Add	.....	0.02	
		For Corrugated, Add	.....	0.06	
22 07 19 00-0124	LF	4-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	13.55	2.79
		For Stucco Embossed, Add	.....	0.02	
		For Corrugated, Add	.....	0.06	
22 07 19 00-0125	LF	4-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	13.99	2.86
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.06	
22 07 19 00-0126	LF	4-3/4" ID, 0.024" Aluminum Insulation Jacketing	.....	14.34	2.91
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.07	
22 07 19 00-0127	LF	5" ID, 0.024" Aluminum Insulation Jacketing	.....	14.78	2.99
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.07	
22 07 19 00-0128	LF	5-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	15.23	3.07
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.07	
22 07 19 00-0129	LF	5-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	15.62	3.13
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.08	
22 07 19 00-0130	LF	5-3/4" ID, 0.024" Aluminum Insulation Jacketing	.....	16.14	3.22
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.08	
22 07 19 00-0131	LF	6" ID, 0.024" Aluminum Insulation Jacketing	.....	16.65	3.32
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.08	
22 07 19 00-0132	LF	6-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	16.97	3.37
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.09	
22 07 19 00-0133	LF	6-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	17.31	3.42
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.09	
22 07 19 00-0134	LF	7" ID, 0.024" Aluminum Insulation Jacketing	.....	17.87	3.50
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.10	
22 07 19 00-0135	LF	7-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	18.33	3.58
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.10	
22 07 19 00-0136	LF	7-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	18.70	3.64
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.10	
22 07 19 00-0137	LF	8" ID, 0.024" Aluminum Insulation Jacketing	.....	19.21	3.70
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.11	
22 07 19 00-0138	LF	8-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	19.71	3.76
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.12	
22 07 19 00-0139	LF	9" ID, 0.024" Aluminum Insulation Jacketing	.....	20.36	3.86
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.12	
22 07 19 00-0140	LF	9-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	20.91	3.93
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.13	
22 07 19 00-0141	LF	10" ID, 0.024" Aluminum Insulation Jacketing	.....	21.45	4.00
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.14	
22 07 19 00-0142	LF	10-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	22.00	4.07
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.14	
22 07 19 00-0143	LF	11" ID, 0.0106 Aluminum Insulation Jacketing	.....	22.72	4.18
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.15	
22 07 19 00-0144	LF	11-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	23.32	4.27
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.16	
22 07 19 00-0145	LF	12" ID, 0.024" Aluminum Insulation Jacketing	.....	23.91	4.35
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.16	
22 07 19 00-0146	LF	12-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	24.69	4.48
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.17	
22 07 19 00-0147	LF	13" ID, 0.024" Aluminum Insulation Jacketing	.....	25.13	4.53
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.18	
22 07 19 00-0148	LF	14" ID, 0.024" Aluminum Insulation Jacketing	.....	25.85	4.57
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.19	
22 07 19 00-0149	LF	15" ID, 0.024" Aluminum Insulation Jacketing	.....	26.75	4.67
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.20	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0150	LF	16" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.48 0.09 0.22	4.72
22 07 19 00-0151	LF	17" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.40 0.09 0.23	4.82
22 07 19 00-0152	LF	18" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.97 0.10 0.24	4.87
22 07 19 00-0153	LF	19" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.11 0.10 0.26	4.98
22 07 19 00-0154	LF	20" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.87 0.11 0.27	5.03
22 07 19 00-0155	LF	21" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.85 0.11 0.28	5.15
22 07 19 00-0156	LF	22" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.61 0.12 0.29	5.21
22 07 19 00-0157	LF	23" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.65 0.12 0.31	5.33
22 07 19 00-0158	LF	24" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.42 0.13 0.32	5.40
22 07 19 00-0159 32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)				
22 07 19 00-0160	LF	1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.61 0.01 0.01	2.25
22 07 19 00-0161	LF	3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.99 0.01 0.02	2.31
22 07 19 00-0162	LF	1" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.40 0.01 0.02	2.36
22 07 19 00-0163	LF	1-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.80 0.01 0.03	2.42
22 07 19 00-0164	LF	1-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.12 0.01 0.03	2.45
22 07 19 00-0165	LF	1-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.44 0.01 0.04	2.49
22 07 19 00-0166	LF	2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.82 0.02 0.04	2.55
22 07 19 00-0167	LF	2-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.21 0.02 0.05	2.60
22 07 19 00-0168	LF	2-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.63 0.02 0.05	2.66
22 07 19 00-0169	LF	2-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.97 0.02 0.05	2.70
22 07 19 00-0170	LF	3" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.41 0.02 0.06	2.76
22 07 19 00-0171	LF	3-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.84 0.03 0.06	2.82
22 07 19 00-0172	LF	3-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.28 0.03 0.07	2.89
22 07 19 00-0173	LF	3-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.65 0.03 0.07	2.94
22 07 19 00-0174	LF	4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.12 0.03 0.08	3.01
22 07 19 00-0175	LF	4-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.58 0.03 0.08	3.09
22 07 19 00-0176	LF	4-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.10 0.03 0.09	3.16
22 07 19 00-0177	LF	4-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.52 0.04 0.09	3.23



	Plumbing	22	
	Plumbing Insulation	22 07	22
	Plumbing Piping Insulation	22 07 19	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0178	LF	5" ID, 0.032" Aluminum Insulation Jacketing	17.04	3.31
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.10	
22 07 19 00-0179	LF	5-1/4" ID, 0.032" Aluminum Insulation Jacketing	17.57	3.40
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.10	
22 07 19 00-0180	LF	5-1/2" ID, 0.032" Aluminum Insulation Jacketing	18.04	3.47
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.10	
22 07 19 00-0181	LF	5-3/4" ID, 0.032" Aluminum Insulation Jacketing	18.62	3.57
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.11	
22 07 19 00-0182	LF	6" ID, 0.032" Aluminum Insulation Jacketing	19.24	3.68
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.11	
22 07 19 00-0183	LF	6-1/4" ID, 0.032" Aluminum Insulation Jacketing	19.62	3.73
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.12	
22 07 19 00-0184	LF	6-1/2" ID, 0.032" Aluminum Insulation Jacketing	20.03	3.79
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.12	
22 07 19 00-0185	LF	7" ID, 0.032" Aluminum Insulation Jacketing	20.71	3.88
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.13	
22 07 19 00-0186	LF	7-1/4" ID, 0.032" Aluminum Insulation Jacketing	21.26	3.97
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.13	
22 07 19 00-0187	LF	7-1/2" ID, 0.032" Aluminum Insulation Jacketing	21.68	4.03
		For Stucco Embossed, Add	0.06	
		For Corrugated, Add	0.14	
22 07 19 00-0188	LF	8" ID, 0.032" Aluminum Insulation Jacketing	22.32	4.10
		For Stucco Embossed, Add	0.06	
		For Corrugated, Add	0.15	
22 07 19 00-0189	LF	8-1/2" ID, 0.032" Aluminum Insulation Jacketing	22.93	4.17
		For Stucco Embossed, Add	0.06	
		For Corrugated, Add	0.16	
22 07 19 00-0190	LF	9" ID, 0.032" Aluminum Insulation Jacketing	23.71	4.29
		For Stucco Embossed, Add	0.07	
		For Corrugated, Add	0.16	
22 07 19 00-0191	LF	9-1/2" ID, 0.032" Aluminum Insulation Jacketing	24.38	4.36
		For Stucco Embossed, Add	0.07	
		For Corrugated, Add	0.17	
22 07 19 00-0192	LF	10" ID, 0.032" Aluminum Insulation Jacketing	25.04	4.44
		For Stucco Embossed, Add	0.07	
		For Corrugated, Add	0.18	
22 07 19 00-0193	LF	10-1/2" ID, 0.032" Aluminum Insulation Jacketing	25.72	4.52
		For Stucco Embossed, Add	0.08	
		For Corrugated, Add	0.19	
22 07 19 00-0194	LF	11" ID, 0.0106 Aluminum Insulation Jacketing	26.57	4.64
		For Stucco Embossed, Add	0.08	
		For Corrugated, Add	0.20	
22 07 19 00-0195	LF	11-1/2" ID, 0.032" Aluminum Insulation Jacketing	27.29	4.73
		For Stucco Embossed, Add	0.08	
		For Corrugated, Add	0.21	
22 07 19 00-0196	LF	12" ID, 0.032" Aluminum Insulation Jacketing	28.01	4.82
		For Stucco Embossed, Add	0.09	
		For Corrugated, Add	0.22	
22 07 19 00-0197	LF	12-1/2" ID, 0.032" Aluminum Insulation Jacketing	28.94	4.97
		For Stucco Embossed, Add	0.09	
		For Corrugated, Add	0.23	
22 07 19 00-0198	LF	13" ID, 0.032" Aluminum Insulation Jacketing	29.49	5.02
		For Stucco Embossed, Add	0.09	
		For Corrugated, Add	0.24	
22 07 19 00-0199	LF	14" ID, 0.032" Aluminum Insulation Jacketing	30.42	5.07
		For Stucco Embossed, Add	0.10	
		For Corrugated, Add	0.25	
22 07 19 00-0200	LF	15" ID, 0.032" Aluminum Insulation Jacketing	31.54	5.17
		For Stucco Embossed, Add	0.11	
		For Corrugated, Add	0.27	
22 07 19 00-0201	LF	16" ID, 0.032" Aluminum Insulation Jacketing	32.47	5.23
		For Stucco Embossed, Add	0.12	
		For Corrugated, Add	0.29	
22 07 19 00-0202	LF	17" ID, 0.032" Aluminum Insulation Jacketing	33.63	5.34
		For Stucco Embossed, Add	0.12	
		For Corrugated, Add	0.31	
22 07 19 00-0203	LF	18" ID, 0.032" Aluminum Insulation Jacketing	34.34	5.40
		For Stucco Embossed, Add	0.13	
		For Corrugated, Add	0.32	
22 07 19 00-0204	LF	19" ID, 0.032" Aluminum Insulation Jacketing	35.76	5.51
		For Stucco Embossed, Add	0.14	
		For Corrugated, Add	0.34	
22 07 19 00-0205	LF	20" ID, 0.032" Aluminum Insulation Jacketing	36.72	5.58
		For Stucco Embossed, Add	0.14	
		For Corrugated, Add	0.36	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0206 LF 21" ID, 0.032" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	37.92 0.15 0.38	5.70
22 07 19 00-0207 LF 22" ID, 0.032" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	38.90 0.16 0.40	5.77
22 07 19 00-0208 LF 23" ID, 0.032" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	40.17 0.17 0.41	5.91
22 07 19 00-0209 LF 24" ID, 0.032" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	41.15 0.17 0.43	5.99
22 07 19 00-0210 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0211 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	11.12 0.01 0.02	2.60
22 07 19 00-0212 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	11.58 0.01 0.02	2.66
22 07 19 00-0213 LF 1" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	12.06 0.01 0.03	2.72
22 07 19 00-0214 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	12.55 0.01 0.04	2.79
22 07 19 00-0215 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	12.93 0.02 0.04	2.83
22 07 19 00-0216 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	13.32 0.02 0.05	2.87
22 07 19 00-0217 LF 2" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	13.77 0.02 0.05	2.93
22 07 19 00-0218 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	14.23 0.02 0.06	2.99
22 07 19 00-0219 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	14.74 0.03 0.06	3.06
22 07 19 00-0220 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	15.15 0.03 0.07	3.11
22 07 19 00-0221 LF 3" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	15.68 0.03 0.07	3.17
22 07 19 00-0222 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	16.19 0.03 0.08	3.25
22 07 19 00-0223 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	16.70 0.03 0.09	3.32
22 07 19 00-0224 LF 3-3/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	17.16 0.04 0.09	3.38
22 07 19 00-0225 LF 4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	17.71 0.04 0.10	3.46
22 07 19 00-0226 LF 4-1/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	18.27 0.04 0.10	3.55
22 07 19 00-0227 LF 4-1/2" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	18.89 0.04 0.11	3.64
22 07 19 00-0228 LF 4-3/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	19.39 0.05 0.11	3.71
22 07 19 00-0229 LF 5" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	20.00 0.05 0.12	3.81
22 07 19 00-0230 LF 5-1/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	20.64 0.05 0.12	3.91
22 07 19 00-0231 LF 5-1/2" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	21.17 0.05 0.13	3.99
22 07 19 00-0232 LF 5-3/4" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	21.89 0.05 0.14	4.11
22 07 19 00-0233 LF 6" ID, 0.040" Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	22.59 0.06 0.14	4.23



	Plumbing	22	
	Plumbing Insulation	22 07	22
	Plumbing Piping Insulation	22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0234	LF	6-1/4" ID, 0.040" Aluminum Insulation Jacketing	.....	23.07	4.30
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.15	
22 07 19 00-0235	LF	6-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	23.55	4.36
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.15	
22 07 19 00-0236	LF	7" ID, 0.040" Aluminum Insulation Jacketing	.....	24.36	4.47
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.16	
22 07 19 00-0237	LF	7-1/4" ID, 0.040" Aluminum Insulation Jacketing	.....	25.02	4.57
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.17	
22 07 19 00-0238	LF	7-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	25.54	4.65
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.17	
22 07 19 00-0239	LF	8" ID, 0.040" Aluminum Insulation Jacketing	.....	26.29	4.73
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.19	
22 07 19 00-0240	LF	8-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	27.03	4.80
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.20	
22 07 19 00-0241	LF	9" ID, 0.040" Aluminum Insulation Jacketing	.....	27.97	4.93
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.21	
22 07 19 00-0242	LF	9-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	28.78	5.01
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.22	
22 07 19 00-0243	LF	10" ID, 0.040" Aluminum Insulation Jacketing	.....	29.58	5.10
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.23	
22 07 19 00-0244	LF	10-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	30.38	5.19
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.24	
22 07 19 00-0245	LF	11" ID, 0.0106 Aluminum Insulation Jacketing	.....	31.41	5.34
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.25	
22 07 19 00-0246	LF	11-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	32.28	5.44
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.26	
22 07 19 00-0247	LF	12" ID, 0.040" Aluminum Insulation Jacketing	.....	33.14	5.54
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.27	
22 07 19 00-0248	LF	12-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	34.24	5.71
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.29	
22 07 19 00-0249	LF	13" ID, 0.040" Aluminum Insulation Jacketing	.....	34.91	5.77
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.30	
22 07 19 00-0250	LF	14" ID, 0.040" Aluminum Insulation Jacketing	.....	36.06	5.82
		For Stucco Embossed, Add	.....	0.13	
		For Corrugated, Add	.....	0.32	
22 07 19 00-0251	LF	15" ID, 0.040" Aluminum Insulation Jacketing	.....	37.41	5.95
		For Stucco Embossed, Add	.....	0.14	
		For Corrugated, Add	.....	0.34	
22 07 19 00-0252	LF	16" ID, 0.040" Aluminum Insulation Jacketing	.....	38.57	6.02
		For Stucco Embossed, Add	.....	0.15	
		For Corrugated, Add	.....	0.36	
22 07 19 00-0253	LF	17" ID, 0.040" Aluminum Insulation Jacketing	.....	39.95	6.15
		For Stucco Embossed, Add	.....	0.15	
		For Corrugated, Add	.....	0.38	
22 07 19 00-0254	LF	18" ID, 0.040" Aluminum Insulation Jacketing	.....	40.84	6.21
		For Stucco Embossed, Add	.....	0.16	
		For Corrugated, Add	.....	0.40	
22 07 19 00-0255	LF	19" ID, 0.040" Aluminum Insulation Jacketing	.....	42.56	6.35
		For Stucco Embossed, Add	.....	0.17	
		For Corrugated, Add	.....	0.43	
22 07 19 00-0256	LF	20" ID, 0.040" Aluminum Insulation Jacketing	.....	43.75	6.42
		For Stucco Embossed, Add	.....	0.18	
		For Corrugated, Add	.....	0.45	
22 07 19 00-0257	LF	21" ID, 0.040" Aluminum Insulation Jacketing	.....	45.22	6.57
		For Stucco Embossed, Add	.....	0.19	
		For Corrugated, Add	.....	0.47	
22 07 19 00-0258	LF	22" ID, 0.040" Aluminum Insulation Jacketing	.....	46.40	6.64
		For Stucco Embossed, Add	.....	0.20	
		For Corrugated, Add	.....	0.50	
22 07 19 00-0259	LF	23" ID, 0.040" Aluminum Insulation Jacketing	.....	47.94	6.80
		For Stucco Embossed, Add	.....	0.21	
		For Corrugated, Add	.....	0.52	
22 07 19 00-0260	LF	24" ID, 0.040" Aluminum Insulation Jacketing	.....	49.13	6.88
		For Stucco Embossed, Add	.....	0.22	
		For Corrugated, Add	.....	0.54	
22 07 19 00-0261		Aluminum Insulation Protective Jacketing For Fittings	(22 07 19 00-0002)		
22 07 19 00-0262	EA	1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	.....	15.00	2.67

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0263 EA 1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	15.40	2.77
22 07 19 00-0264 EA 2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	16.96	2.87
22 07 19 00-0265 EA 2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.14	2.92
22 07 19 00-0266 EA 2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.32	2.97
22 07 19 00-0267 EA 2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.61	3.04
22 07 19 00-0268 EA 3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.37	3.11
22 07 19 00-0269 EA 3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.70	3.19
22 07 19 00-0270 EA 3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.00	3.25
22 07 19 00-0271 EA 3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.41	3.30
22 07 19 00-0272 EA 4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.10	3.39
22 07 19 00-0273 EA 4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.57	3.46
22 07 19 00-0274 EA 4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.82	3.52
22 07 19 00-0275 EA 4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	22.09	3.59
22 07 19 00-0276 EA 5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	23.36	3.66
22 07 19 00-0277 EA 5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.99	3.73
22 07 19 00-0278 EA 5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	27.92	3.85
22 07 19 00-0279 EA 5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.25	3.93
22 07 19 00-0280 EA 6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.93	4.05
22 07 19 00-0281 EA 6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	27.28	4.14
22 07 19 00-0282 EA 6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	30.03	4.30
22 07 19 00-0283 EA 7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	33.19	4.40
22 07 19 00-0284 EA 7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	33.39	4.45
22 07 19 00-0285 EA 7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	40.97	4.50
22 07 19 00-0286 EA 8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	35.34	4.56
22 07 19 00-0287 EA 8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	50.32	4.67
22 07 19 00-0288 EA 9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	50.79	4.79
22 07 19 00-0289 EA 9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	42.67	4.85
22 07 19 00-0290 EA 10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	42.93	4.91
22 07 19 00-0291 EA 10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	43.70	4.98
22 07 19 00-0292 EA 11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	43.97	5.05
22 07 19 00-0293 EA 11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	47.78	5.18
22 07 19 00-0294 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	48.07	5.26
22 07 19 00-0295 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	69.77	5.41
22 07 19 00-0296 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	70.09	5.49
22 07 19 00-0297 EA 14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	87.16	5.65
22 07 19 00-0298 EA 15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	90.81	5.83
22 07 19 00-0299 EA 16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	97.31	5.92
22 07 19 00-0300 EA 2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	16.37	2.97
22 07 19 00-0301 EA 2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	16.66	3.04
22 07 19 00-0302 EA 3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	17.54	3.11
22 07 19 00-0303 EA 3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	17.87	3.19
22 07 19 00-0304 EA 3-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	18.81	3.25
22 07 19 00-0305 EA 3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.04	3.30
22 07 19 00-0306 EA 4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.50	3.39
22 07 19 00-0307 EA 4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.58	3.46
22 07 19 00-0308 EA 4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.83	3.52
22 07 19 00-0309 EA 4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	21.10	3.59
22 07 19 00-0310 EA 5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.57	3.66
22 07 19 00-0311 EA 5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.86	3.73
22 07 19 00-0312 EA 5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	23.70	3.85
22 07 19 00-0313 EA 6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.55	4.05
22 07 19 00-0314 EA 6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.64	4.30
22 07 19 00-0315 EA 7" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	29.05	4.40
22 07 19 00-0316 EA 7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	29.59	4.50
22 07 19 00-0317 EA 8" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	29.80	4.56
22 07 19 00-0318 EA 8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	33.08	4.67
22 07 19 00-0319 EA 9" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	33.55	4.79
22 07 19 00-0320 EA 9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	39.40	4.85
22 07 19 00-0321 EA 10" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	39.66	4.91
22 07 19 00-0322 EA 10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	38.62	4.98
22 07 19 00-0323 EA 11" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	38.89	5.05
22 07 19 00-0324 EA 11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	43.22	5.18
22 07 19 00-0325 EA 12" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	43.51	5.26
22 07 19 00-0326 EA 13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	48.35	5.49
22 07 19 00-0327 EA 14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	55.00	5.65
22 07 19 00-0328 EA 15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	73.22	5.83
22 07 19 00-0329 EA 16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	77.78	5.92
22 07 19 00-0330 EA 17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	76.88	6.03
22 07 19 00-0331 EA 18" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	84.71	6.12
22 07 19 00-0332 EA 19" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	98.46	6.23
22 07 19 00-0333 EA 20" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	96.47	6.33
22 07 19 00-0334 EA 21" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	102.56	6.44
22 07 19 00-0335 EA 2-1/2" ID, Aluminum Tee Insulation Jacketing.....	47.98	4.24
22 07 19 00-0336 EA 2-3/4" ID, Aluminum Tee Insulation Jacketing.....	48.37	4.35
22 07 19 00-0337 EA 3" ID, Aluminum Tee Insulation Jacketing.....	52.80	4.45
22 07 19 00-0338 EA 3-1/4" ID, Aluminum Tee Insulation Jacketing.....	53.24	4.56
22 07 19 00-0339 EA 3-1/2" ID, Aluminum Tee Insulation Jacketing.....	55.38	4.67
22 07 19 00-0340 EA 4" ID, Aluminum Tee Insulation Jacketing.....	56.25	4.79
22 07 19 00-0341 EA 4-1/4" ID, Aluminum Tee Insulation Jacketing.....	58.90	4.91
22 07 19 00-0342 EA 4-1/2" ID, Aluminum Tee Insulation Jacketing.....	59.11	5.05
22 07 19 00-0343 EA 4-3/4" ID, Aluminum Tee Insulation Jacketing.....	59.67	5.18



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0344	EA	5" ID, Aluminum Tee Insulation Jacketing	61.72	5.33
22 07 19 00-0345	EA	5-1/4" ID, Aluminum Tee Insulation Jacketing	62.34	5.49
22 07 19 00-0346	EA	5-1/2" ID, Aluminum Tee Insulation Jacketing	64.79	5.65
22 07 19 00-0347	EA	6" ID, Aluminum Tee Insulation Jacketing	65.51	5.83
22 07 19 00-0348	EA	6-1/2" ID, Aluminum Tee Insulation Jacketing	71.21	6.23
22 07 19 00-0349	EA	7" ID, Aluminum Tee Insulation Jacketing	72.06	6.44
22 07 19 00-0350	EA	7-1/2" ID, Aluminum Tee Insulation Jacketing	78.18	6.67
22 07 19 00-0351	EA	8" ID, Aluminum Tee Insulation Jacketing	79.16	6.91
22 07 19 00-0352	EA	8-1/2" ID, Aluminum Tee Insulation Jacketing	81.59	7.18
22 07 19 00-0353	EA	9" ID, Aluminum Tee Insulation Jacketing	82.74	7.46
22 07 19 00-0354	EA	9-1/2" ID, Aluminum Tee Insulation Jacketing	69.72	7.61
22 07 19 00-0355	EA	10" ID, Aluminum Tee Insulation Jacketing	70.35	7.78
22 07 19 00-0356	EA	10-1/2" ID, Aluminum Tee Insulation Jacketing	73.57	7.95
22 07 19 00-0357	EA	11" ID, Aluminum Tee Insulation Jacketing	74.25	8.12
22 07 19 00-0358	EA	11-1/2" ID, Aluminum Tee Insulation Jacketing	77.26	8.30
22 07 19 00-0359	EA	12" ID, Aluminum Tee Insulation Jacketing	78.01	8.48
22 07 19 00-0360	EA	13" ID, Aluminum Tee Insulation Jacketing	80.99	8.68
22 07 19 00-0361	EA	14" ID, Aluminum Tee Insulation Jacketing	84.10	8.89
22 07 19 00-0362	EA	15" ID, Aluminum Tee Insulation Jacketing	88.91	9.10
22 07 19 00-0363	EA	16" ID, Aluminum Tee Insulation Jacketing	91.14	9.33
22 07 19 00-0364	EA	17" ID, Aluminum Tee Insulation Jacketing	100.15	9.58
22 07 19 00-0365	EA	18" ID, Aluminum Tee Insulation Jacketing	103.57	9.83
22 07 19 00-0366	EA	19" ID, Aluminum Tee Insulation Jacketing	111.44	10.09
22 07 19 00-0367	EA	20" ID, Aluminum Tee Insulation Jacketing	114.11	10.37
22 07 19 00-0368	EA	22" ID, Aluminum Tee Insulation Jacketing	135.05	10.66
22 07 19 00-0369	EA	23" ID, Aluminum Tee Insulation Jacketing	138.88	10.98
22 07 19 00-0370	EA	24" ID, Aluminum Tee Insulation Jacketing	145.60	12.04
22 07 19 00-0371	Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0001)			
22 07 19 00-0372	Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0371)			
22 07 19 00-0373	SF	0.010" Stainless Steel Insulation Jacket With Bands	17.48	7.00
22 07 19 00-0374	SF	0.016" Stainless Steel Insulation Jacket With Bands	21.47	8.40
22 07 19 00-0375	10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)			
22 07 19 00-0376	LF	2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	9.01	1.49
22 07 19 00-0377	LF	2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	9.40	1.52
22 07 19 00-0378	LF	3" ID, 0.010" Stainless Steel Insulation Jacketing	9.79	1.56
22 07 19 00-0379	LF	3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	10.20	1.59
22 07 19 00-0380	LF	3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	10.60	1.62
22 07 19 00-0381	LF	3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	11.02	1.66
22 07 19 00-0382	LF	4" ID, 0.010" Stainless Steel Insulation Jacketing	11.43	1.70
22 07 19 00-0383	LF	4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	11.85	1.74
22 07 19 00-0384	LF	4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	12.29	1.78
22 07 19 00-0385	LF	5" ID, 0.010" Stainless Steel Insulation Jacketing	13.18	1.87
22 07 19 00-0386	LF	5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	14.12	1.96
22 07 19 00-0387	LF	6" ID, 0.010" Stainless Steel Insulation Jacketing	15.09	2.07
22 07 19 00-0388	LF	6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	15.86	2.13
22 07 19 00-0389	LF	7" ID, 0.010" Stainless Steel Insulation Jacketing	16.66	2.19
22 07 19 00-0390	LF	7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	17.51	2.27
22 07 19 00-0391	LF	8" ID, 0.010" Stainless Steel Insulation Jacketing	18.22	2.32
22 07 19 00-0392	LF	8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	18.94	2.36
22 07 19 00-0393	LF	9" ID, 0.010" Stainless Steel Insulation Jacketing	19.67	2.40
22 07 19 00-0394	LF	9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	20.39	2.45
22 07 19 00-0395	LF	10" ID, 0.010" Stainless Steel Insulation Jacketing	21.12	2.50
22 07 19 00-0396	LF	10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	21.87	2.56
22 07 19 00-0397	LF	11" ID, 0.010" Stainless Steel Insulation Jacketing	22.62	2.62
22 07 19 00-0398	LF	12" ID, 0.010" Stainless Steel Insulation Jacketing	24.15	2.73
22 07 19 00-0399	LF	13" ID, 0.010" Stainless Steel Insulation Jacketing	25.65	2.83
22 07 19 00-0400	LF	14" ID, 0.010" Stainless Steel Insulation Jacketing	26.89	2.87
22 07 19 00-0401	16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)			
22 07 19 00-0402	LF	2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	12.34	1.98
22 07 19 00-0403	LF	2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	12.89	2.02
22 07 19 00-0404	LF	3" ID, 0.016" Stainless Steel Insulation Jacketing	13.45	2.07
22 07 19 00-0405	LF	3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	14.02	2.11
22 07 19 00-0406	LF	3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	14.59	2.16
22 07 19 00-0407	LF	3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	15.17	2.20
22 07 19 00-0408	LF	4" ID, 0.016" Stainless Steel Insulation Jacketing	15.75	2.25
22 07 19 00-0409	LF	4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	16.35	2.31
22 07 19 00-0410	LF	4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	16.97	2.36
22 07 19 00-0411	LF	5" ID, 0.016" Stainless Steel Insulation Jacketing	18.23	2.48
22 07 19 00-0412	LF	5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	19.53	2.62
22 07 19 00-0413	LF	6" ID, 0.016" Stainless Steel Insulation Jacketing	20.88	2.76
22 07 19 00-0414	LF	6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	21.98	2.84

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0415 LF 7" ID, 0.016" Stainless Steel Insulation Jacketing.....	23.10	2.92
22 07 19 00-0416 LF 7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	24.30	3.03
22 07 19 00-0417 LF 8" ID, 0.016" Stainless Steel Insulation Jacketing.....	25.30	3.09
22 07 19 00-0418 LF 8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	26.32	3.14
22 07 19 00-0419 LF 9" ID, 0.016" Stainless Steel Insulation Jacketing.....	27.36	3.20
22 07 19 00-0420 LF 9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	28.38	3.27
22 07 19 00-0421 LF 10" ID, 0.016" Stainless Steel Insulation Jacketing.....	29.42	3.33
22 07 19 00-0422 LF 10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	30.48	3.40
22 07 19 00-0423 LF 11" ID, 0.016" Stainless Steel Insulation Jacketing.....	31.55	3.47
22 07 19 00-0424 LF 12" ID, 0.016" Stainless Steel Insulation Jacketing.....	33.71	3.62
22 07 19 00-0425 LF 13" ID, 0.016" Stainless Steel Insulation Jacketing.....	35.82	3.76
22 07 19 00-0426 LF 14" ID, 0.016" Stainless Steel Insulation Jacketing.....	37.61	3.82

22 07 19 00-0427 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0371)

22 07 19 00-0428 EA 2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	25.23	2.97
22 07 19 00-0429 EA 2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	25.52	3.04
22 07 19 00-0430 EA 3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	26.42	3.11
22 07 19 00-0431 EA 3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	26.75	3.19
22 07 19 00-0432 EA 3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	27.68	3.25
22 07 19 00-0433 EA 3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	28.75	3.30
22 07 19 00-0434 EA 4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	30.65	3.39
22 07 19 00-0435 EA 4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	36.51	3.46
22 07 19 00-0436 EA 4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	36.76	3.52
22 07 19 00-0437 EA 5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	37.85	3.66
22 07 19 00-0438 EA 5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	49.98	3.85
22 07 19 00-0439 EA 6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	54.21	4.05
22 07 19 00-0440 EA 6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	69.43	4.30
22 07 19 00-0441 EA 7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	69.84	4.40
22 07 19 00-0442 EA 7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	79.03	4.50
22 07 19 00-0443 EA 8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	79.70	4.67
22 07 19 00-0444 EA 8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	81.78	4.67
22 07 19 00-0445 EA 9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	115.13	4.79
22 07 19 00-0446 EA 9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	113.71	4.85
22 07 19 00-0447 EA 10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	113.97	4.91
22 07 19 00-0448 EA 10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	132.76	4.98
22 07 19 00-0449 EA 11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	127.91	5.05
22 07 19 00-0450 EA 12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	143.33	5.26
22 07 19 00-0451 EA 13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	191.41	5.49
22 07 19 00-0452 EA 14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	193.21	5.65
22 07 19 00-0453 EA 2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	23.00	2.97
22 07 19 00-0454 EA 2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	23.29	3.04
22 07 19 00-0455 EA 3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	24.43	3.11
22 07 19 00-0456 EA 3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	24.76	3.19
22 07 19 00-0457 EA 3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	25.13	3.25
22 07 19 00-0458 EA 3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	25.36	3.30
22 07 19 00-0459 EA 4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	29.19	3.39
22 07 19 00-0460 EA 4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	35.74	3.46
22 07 19 00-0461 EA 4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	35.99	3.52
22 07 19 00-0462 EA 4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	36.26	3.59
22 07 19 00-0463 EA 5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	36.93	3.66
22 07 19 00-0464 EA 5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	37.68	3.85
22 07 19 00-0465 EA 6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	42.68	4.05
22 07 19 00-0466 EA 6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	43.60	4.30
22 07 19 00-0467 EA 7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	62.31	4.40
22 07 19 00-0468 EA 7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	63.66	4.50
22 07 19 00-0469 EA 8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	63.87	4.56
22 07 19 00-0470 EA 8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	72.10	4.67
22 07 19 00-0471 EA 9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	72.57	4.79
22 07 19 00-0472 EA 9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	82.11	4.85
22 07 19 00-0473 EA 10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	82.37	4.91
22 07 19 00-0474 EA 10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	95.29	4.98
22 07 19 00-0475 EA 11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	95.56	5.05
22 07 19 00-0476 EA 12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	102.90	5.26
22 07 19 00-0477 EA 13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	118.29	5.49

22 07 19 00-0478 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0001)

22 07 19 00-0479 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)

22 07 19 00-0480 LF 1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	5.79	1.38
22 07 19 00-0481 LF 2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.08	1.44
22 07 19 00-0482 LF 2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.39	1.49
22 07 19 00-0483 LF 3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.72	1.56
22 07 19 00-0484 LF 3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.05	1.62
22 07 19 00-0485 LF 4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.42	1.70
22 07 19 00-0486 LF 4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.82	1.78
22 07 19 00-0487 LF 5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.23	1.87
22 07 19 00-0488 LF 5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.71	1.96
22 07 19 00-0489 LF 6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.22	2.07
22 07 19 00-0490 LF 6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.53	2.13



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 07 19 00-0491	LF	7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.84		2.19
22 07 19 00-0492	LF	7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.24		2.27
22 07 19 00-0493	LF	8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.48		2.32
22 07 19 00-0494	LF	8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.74		2.36
22 07 19 00-0495	LF	9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.00		2.40
22 07 19 00-0496	LF	9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.26		2.45
22 07 19 00-0497	LF	10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.52		2.50
22 07 19 00-0498	LF	10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.80		2.56
22 07 19 00-0499	LF	11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.09		2.62
22 07 19 00-0500	LF	11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.38		2.67
22 07 19 00-0501	LF	12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.69		2.73
22 07 19 00-0502	LF	12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.02		2.79
22 07 19 00-0503	LF	13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.26		2.83
22 07 19 00-0504	LF	13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.33		2.83
22 07 19 00-0505	LF	14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.58		2.87
22 07 19 00-0506	LF	15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.91		2.92
22 07 19 00-0507	LF	16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.23		2.97
22 07 19 00-0508	LF	17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.57		3.01
22 07 19 00-0509	LF	18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.92		3.06
22 07 19 00-0510	LF	19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.25		3.11
22 07 19 00-0511	LF	20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.61		3.17
22 07 19 00-0512	LF	21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.98		3.22
22 07 19 00-0513	LF	22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.35		3.28
22 07 19 00-0514	LF	23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.72		3.33
22 07 19 00-0515	LF	24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.12		3.39
22 07 19 00-0516	LF	25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.52		3.46
22 07 19 00-0517	LF	26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.91		3.52
22 07 19 00-0518	LF	27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.33		3.59
22 07 19 00-0519	LF	28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.76		3.66
22 07 19 00-0520	LF	29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.20		3.73
22 07 19 00-0521	LF	30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.66		3.81
22 07 19 00-0522 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)					
22 07 19 00-0523	LF	2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	6.24		1.44
22 07 19 00-0524	LF	2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	6.59		1.49
22 07 19 00-0525	LF	3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	6.96		1.56
22 07 19 00-0526	LF	3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	7.31		1.62
22 07 19 00-0527	LF	4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	7.72		1.70
22 07 19 00-0528	LF	4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	8.15		1.78
22 07 19 00-0529	LF	5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	8.60		1.87
22 07 19 00-0530	LF	5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	9.11		1.96
22 07 19 00-0531	LF	6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	9.66		2.07
22 07 19 00-0532	LF	6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	10.00		2.13
22 07 19 00-0533	LF	7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	10.35		2.19
22 07 19 00-0534	LF	7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	10.79		2.27
22 07 19 00-0535	LF	8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.07		2.32
22 07 19 00-0536	LF	8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.36		2.36
22 07 19 00-0537	LF	9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.65		2.40
22 07 19 00-0538	LF	9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.95		2.45
22 07 19 00-0539	LF	10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.25		2.50
22 07 19 00-0540	LF	10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.56		2.56
22 07 19 00-0541	LF	11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.88		2.62
22 07 19 00-0542	LF	11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.21		2.67
22 07 19 00-0543	LF	12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.55		2.73
22 07 19 00-0544	LF	12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.92		2.79
22 07 19 00-0545	LF	13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.20		2.83
22 07 19 00-0546	LF	13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.31		2.83
22 07 19 00-0547	LF	14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.58		2.87
22 07 19 00-0548	LF	15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.98		2.92
22 07 19 00-0549	LF	16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.37		2.97
22 07 19 00-0550	LF	17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.77		3.01
22 07 19 00-0551	LF	18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.20		3.06
22 07 19 00-0552	LF	19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.61		3.11
22 07 19 00-0553	LF	20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.04		3.17
22 07 19 00-0554	LF	21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.48		3.22
22 07 19 00-0555	LF	22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.92		3.28
22 07 19 00-0556	LF	23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.36		3.33
22 07 19 00-0557	LF	24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.82		3.39
22 07 19 00-0558	LF	25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.30		3.46
22 07 19 00-0559	LF	26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.76		3.52
22 07 19 00-0560	LF	27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.25		3.59
22 07 19 00-0561	LF	28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.75		3.66
22 07 19 00-0562	LF	29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.25		3.73
22 07 19 00-0563	LF	30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.78		3.81
22 07 19 00-0564 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-0478)					
22 07 19 00-0565	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	11.65		2.77
22 07 19 00-0566	EA	2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	12.22		2.87

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0567 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	12.48	2.92
22 07 19 00-0568 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	12.75	2.97
22 07 19 00-0569 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	13.11	3.04
22 07 19 00-0570 EA 3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	13.47	3.11
22 07 19 00-0571 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	14.05	3.22
22 07 19 00-0572 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	14.53	3.30
22 07 19 00-0573 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	15.23	3.39
22 07 19 00-0574 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	16.21	3.55
22 07 19 00-0575 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	17.25	3.73
22 07 19 00-0576 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	18.78	3.93
22 07 19 00-0577 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.69	4.14
22 07 19 00-0578 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	22.53	4.30
22 07 19 00-0579 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	24.30	4.40
22 07 19 00-0580 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	25.06	4.50
22 07 19 00-0581 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	27.75	4.67
22 07 19 00-0582 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	31.52	4.85
22 07 19 00-0583 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	33.73	5.05
22 07 19 00-0584 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	36.56	5.26
22 07 19 00-0585 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	41.56	5.49
22 07 19 00-0586 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	45.03	5.65
22 07 19 00-0587 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	47.42	5.83
22 07 19 00-0588 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	49.98	5.92
22 07 19 00-0589 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	53.24	6.03
22 07 19 00-0590 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	62.09	6.12
22 07 19 00-0591 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	75.95	6.23
22 07 19 00-0592 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	90.93	6.33
22 07 19 00-0593 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	11.65	2.77
22 07 19 00-0594 EA 2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	12.22	2.87
22 07 19 00-0595 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	12.48	2.92
22 07 19 00-0596 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	12.75	2.97
22 07 19 00-0597 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	13.11	3.04
22 07 19 00-0598 EA 3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	13.47	3.11
22 07 19 00-0599 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	14.05	3.22
22 07 19 00-0600 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	14.53	3.30
22 07 19 00-0601 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	15.23	3.39
22 07 19 00-0602 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	16.21	3.55
22 07 19 00-0603 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	17.25	3.73
22 07 19 00-0604 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	18.78	3.93
22 07 19 00-0605 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.69	4.14
22 07 19 00-0606 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	22.53	4.30
22 07 19 00-0607 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	24.30	4.40
22 07 19 00-0608 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	25.06	4.50
22 07 19 00-0609 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	27.75	4.67
22 07 19 00-0610 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	31.52	4.85
22 07 19 00-0611 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	33.72	5.05
22 07 19 00-0612 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	35.96	5.26
22 07 19 00-0613 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	38.62	5.49
22 07 19 00-0614 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	41.66	5.65
22 07 19 00-0615 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	43.77	5.83
22 07 19 00-0616 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	47.03	5.92
22 07 19 00-0617 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	50.35	6.03
22 07 19 00-0618 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	56.58	6.12
22 07 19 00-0619 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	68.67	6.23
22 07 19 00-0620 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	74.90	6.33
22 07 19 00-0621 EA 1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	16.66	3.89
22 07 19 00-0622 EA 2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	17.14	3.97
22 07 19 00-0623 EA 2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	17.78	4.10
22 07 19 00-0624 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	18.47	4.24
22 07 19 00-0625 EA 2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	19.22	4.40
22 07 19 00-0626 EA 3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	20.00	4.56
22 07 19 00-0627 EA 3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	20.95	4.73
22 07 19 00-0628 EA 3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	21.98	4.91
22 07 19 00-0629 EA 4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	23.22	5.11
22 07 19 00-0630 EA 4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	24.77	5.33
22 07 19 00-0631 EA 5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	26.42	5.57
22 07 19 00-0632 EA 5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	29.19	5.92
22 07 19 00-0633 EA 6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	32.10	6.23
22 07 19 00-0634 EA 6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	34.23	6.33
22 07 19 00-0635 EA 7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	40.61	6.55
22 07 19 00-0636 EA 7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	43.46	6.91
22 07 19 00-0637 EA 8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	47.96	7.18
22 07 19 00-0638 EA 9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	52.55	7.46
22 07 19 00-0639 EA 10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	54.06	7.78
22 07 19 00-0640 EA 11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	57.28	7.95
22 07 19 00-0641 EA 12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	60.50	8.12
22 07 19 00-0642 EA 14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	63.80	8.30
22 07 19 00-0643 EA 15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	67.09	8.48
22 07 19 00-0644 EA 16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	70.43	8.68
22 07 19 00-0645 EA 17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	73.79	8.89
22 07 19 00-0646 EA 18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	78.50	9.10
22 07 19 00-0647 EA 19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	83.24	9.33



Plumbing			22	22
Plumbing Insulation			22 07	
Plumbing Piping Insulation			22 07 19	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
22 07 19 00-0648	EA	20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	88.87		9.58
22 07 19 00-0649	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	15.31		2.67
22 07 19 00-0650	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	15.31		2.67
22 07 19 00-0651	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	16.96		2.77
22 07 19 00-0652	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	16.96		2.77
22 07 19 00-0653	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	20.79		2.87
22 07 19 00-0654	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	22.28		2.99
22 07 19 00-0655	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	24.01		3.11
22 07 19 00-0656	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	26.38		3.25
22 07 19 00-0657	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	28.50		3.39
22 07 19 00-0658	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	33.47		3.73
22 07 19 00-0659	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	43.98		4.14
22 07 19 00-0660	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	48.50		4.67
22 07 19 00-0661	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	58.08		4.98
22 07 19 00-0662	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	76.85		5.49
22 07 19 00-0663	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	77.97		5.74
22 07 19 00-0664	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	98.48		5.92
22 07 19 00-0665	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	127.33		6.12
22 07 19 00-0666	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	14.80		2.67
22 07 19 00-0667	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	14.80		2.67
22 07 19 00-0668	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	16.34		2.77
22 07 19 00-0669	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	16.34		2.77
22 07 19 00-0670	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	19.77		2.87
22 07 19 00-0671	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	21.14		2.99
22 07 19 00-0672	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	22.77		3.11
22 07 19 00-0673	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	23.88		3.25
22 07 19 00-0674	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	26.85		3.39
22 07 19 00-0675	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	31.43		3.73
22 07 19 00-0676	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	40.98		4.14
22 07 19 00-0677	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	45.21		4.67
22 07 19 00-0678	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	53.88		4.98
22 07 19 00-0679	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	70.85		5.49
22 07 19 00-0680	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	86.57		5.74
22 07 19 00-0681	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	100.74		5.92
22 07 19 00-0682	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	115.41		6.12
22 07 19 00-0683	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	22.12		4.01
22 07 19 00-0684	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	22.12		4.01
22 07 19 00-0685	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	24.25		4.14
22 07 19 00-0686	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	24.25		4.14
22 07 19 00-0687	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	29.24		4.30
22 07 19 00-0688	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	31.21		4.45
22 07 19 00-0689	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	33.70		4.67
22 07 19 00-0690	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	35.32		4.85
22 07 19 00-0691	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	39.91		5.11
22 07 19 00-0692	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	43.72		5.57
22 07 19 00-0693	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	56.59		6.23
22 07 19 00-0694	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	62.02		6.91
22 07 19 00-0695	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	79.50		7.46
22 07 19 00-0696	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	103.80		8.12
22 07 19 00-0697	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	120.89		8.68
22 07 19 00-0698	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	138.92		8.89
22 07 19 00-0699	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	150.29		9.10
22 07 19 00-0700		Insulation Foam Rubber (22 07 19)			
22 07 19 00-0701		Covering 4x6 Sheet (22 07 19 00-0700)			
22 07 19 00-0702	SF	1" Thick Foam Rubber Sheet Insulation	17.18		6.63
22 07 19 00-0703		Fiberglass Pipe Insulation (22 07 19)			
Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.					
22 07 19 00-0704		1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)			
22 07 19 00-0705	LF	1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	6.29		2.05
		For Single Layer Of Felt Finish, Add	0.08		
		For Work In Restricted Working Space, Add	1.67		
22 07 19 00-0706	LF	3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	6.37		2.05
		For Single Layer Of Felt Finish, Add	0.09		
		For Work In Restricted Working Space, Add	1.67		
22 07 19 00-0707	LF	1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	6.76		2.14
		For Single Layer Of Felt Finish, Add	0.09		
		For Work In Restricted Working Space, Add	1.76		
22 07 19 00-0708	LF	1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	6.97		2.24
		For Single Layer Of Felt Finish, Add	0.10		
		For Work In Restricted Working Space, Add	1.80		
22 07 19 00-0709	LF	1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.14		2.24
		For Single Layer Of Felt Finish, Add	0.11		
		For Work In Restricted Working Space, Add	1.83		

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0710 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.55	2.33
For Single Layer Of Felt Finish, Add	0.12	
For Work In Restricted Working Space, Add	1.94	
22 07 19 00-0711 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.82	2.42
For Single Layer Of Felt Finish, Add	0.13	
For Work In Restricted Working Space, Add	1.97	
22 07 19 00-0712 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.19	2.52
For Single Layer Of Felt Finish, Add	0.15	
For Work In Restricted Working Space, Add	2.03	
22 07 19 00-0713 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.14	2.71
For Single Layer Of Felt Finish, Add	0.19	
For Work In Restricted Working Space, Add	2.20	
22 07 19 00-0714 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.74	3.17
For Single Layer Of Felt Finish, Add	0.23	
For Work In Restricted Working Space, Add	2.57	
22 07 19 00-0715 1" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0716 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.55	2.80
For Single Layer Of Felt Finish, Add	0.09	
For Work In Restricted Working Space, Add	2.30	
22 07 19 00-0717 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.68	2.80
For Single Layer Of Felt Finish, Add	0.11	
For Work In Restricted Working Space, Add	2.30	
22 07 19 00-0718 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.81	2.80
For Single Layer Of Felt Finish, Add	0.11	
For Work In Restricted Working Space, Add	2.33	
22 07 19 00-0719 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.05	2.90
For Single Layer Of Felt Finish, Add	0.12	
For Work In Restricted Working Space, Add	2.37	
22 07 19 00-0720 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.25	2.90
For Single Layer Of Felt Finish, Add	0.13	
For Work In Restricted Working Space, Add	2.40	
22 07 19 00-0721 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.58	2.99
For Single Layer Of Felt Finish, Add	0.14	
For Work In Restricted Working Space, Add	2.47	
22 07 19 00-0722 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.06	3.17
For Single Layer Of Felt Finish, Add	0.16	
For Work In Restricted Working Space, Add	2.57	
22 07 19 00-0723 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.48	3.27
For Single Layer Of Felt Finish, Add	0.18	
For Work In Restricted Working Space, Add	2.63	
22 07 19 00-0724 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.64	3.45
For Single Layer Of Felt Finish, Add	0.23	
For Work In Restricted Working Space, Add	2.84	
22 07 19 00-0725 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.33	4.01
For Single Layer Of Felt Finish, Add	0.28	
For Work In Restricted Working Space, Add	3.20	
22 07 19 00-0726 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.05	4.48
For Single Layer Of Felt Finish, Add	0.40	
For Work In Restricted Working Space, Add	3.67	
22 07 19 00-0727 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.91	5.32
For Single Layer Of Felt Finish, Add	0.47	
For Work In Restricted Working Space, Add	4.33	
22 07 19 00-0728 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.74	6.07
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	5.00	
22 07 19 00-0729 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.13	6.63
For Single Layer Of Felt Finish, Add	0.62	
For Work In Restricted Working Space, Add	5.18	
22 07 19 00-0730 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0731 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.78	2.89
For Single Layer Of Felt Finish, Add	0.19	
For Work In Restricted Working Space, Add	2.40	
22 07 19 00-0732 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.86	2.89
For Single Layer Of Felt Finish, Add	0.20	
For Work In Restricted Working Space, Add	2.40	
22 07 19 00-0733 LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.43	3.05
For Single Layer Of Felt Finish, Add	0.21	
For Work In Restricted Working Space, Add	2.54	
22 07 19 00-0734 LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.73	3.12
For Single Layer Of Felt Finish, Add	0.22	
For Work In Restricted Working Space, Add	2.59	
22 07 19 00-0735 LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.00	3.17
For Single Layer Of Felt Finish, Add	0.23	
For Work In Restricted Working Space, Add	2.63	
22 07 19 00-0736 LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.69	3.34
For Single Layer Of Felt Finish, Add	0.26	
For Work In Restricted Working Space, Add	2.78	
22 07 19 00-0737 LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.10	3.40
For Single Layer Of Felt Finish, Add	0.28	
For Work In Restricted Working Space, Add	2.83	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0738	LF	3"	Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.50	3.52
			For Single Layer Of Felt Finish, Add	0.29	
			For Work In Restricted Working Space, Add	2.93	
22 07 19 00-0739	LF	4"	Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.69	3.81
			For Single Layer Of Felt Finish, Add	0.33	
			For Work In Restricted Working Space, Add	3.16	
22 07 19 00-0740	LF	6"	Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.89	4.45
			For Single Layer Of Felt Finish, Add	0.38	
			For Work In Restricted Working Space, Add	3.69	
22 07 19 00-0741	LF	8"	Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.49	4.69
			For Single Layer Of Felt Finish, Add	0.47	
			For Work In Restricted Working Space, Add	3.90	
22 07 19 00-0742	LF	10"	Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.22	5.61
			For Single Layer Of Felt Finish, Add	0.60	
			For Work In Restricted Working Space, Add	4.66	
22 07 19 00-0743	LF	12"	Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.28	6.53
			For Single Layer Of Felt Finish, Add	0.65	
			For Work In Restricted Working Space, Add	5.43	
22 07 19 00-0744	LF	14"	Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.00	7.16
			For Single Layer Of Felt Finish, Add	0.75	
			For Work In Restricted Working Space, Add	5.95	
22 07 19 00-0745 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)					
22 07 19 00-0746	LF	1/2"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.58	3.17
			For Single Layer Of Felt Finish, Add	0.29	
			For Work In Restricted Working Space, Add	2.63	
22 07 19 00-0747	LF	3/4"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.68	3.17
			For Single Layer Of Felt Finish, Add	0.30	
			For Work In Restricted Working Space, Add	2.63	
22 07 19 00-0748	LF	1"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.99	3.27
			For Single Layer Of Felt Finish, Add	0.33	
			For Work In Restricted Working Space, Add	2.67	
22 07 19 00-0749	LF	1-1/4"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.27	3.27
			For Single Layer Of Felt Finish, Add	0.34	
			For Work In Restricted Working Space, Add	2.70	
22 07 19 00-0750	LF	1-1/2"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.57	3.36
			For Single Layer Of Felt Finish, Add	0.36	
			For Work In Restricted Working Space, Add	2.73	
22 07 19 00-0751	LF	2"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.04	3.45
			For Single Layer Of Felt Finish, Add	0.38	
			For Work In Restricted Working Space, Add	2.84	
22 07 19 00-0752	LF	2-1/2"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.64	3.55
			For Single Layer Of Felt Finish, Add	0.41	
			For Work In Restricted Working Space, Add	2.93	
22 07 19 00-0753	LF	3"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.28	3.73
			For Single Layer Of Felt Finish, Add	0.44	
			For Work In Restricted Working Space, Add	3.03	
22 07 19 00-0754	LF	4"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.43	3.92
			For Single Layer Of Felt Finish, Add	0.50	
			For Work In Restricted Working Space, Add	3.20	
22 07 19 00-0755	LF	6"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.34	4.60
			For Single Layer Of Felt Finish, Add	0.58	
			For Work In Restricted Working Space, Add	3.84	
22 07 19 00-0756	LF	8"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.36	4.86
			For Single Layer Of Felt Finish, Add	0.72	
			For Work In Restricted Working Space, Add	4.05	
22 07 19 00-0757	LF	10"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.37	5.81
			For Single Layer Of Felt Finish, Add	0.86	
			For Work In Restricted Working Space, Add	4.85	
22 07 19 00-0758	LF	12"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.35	6.97
			For Single Layer Of Felt Finish, Add	0.95	
			For Work In Restricted Working Space, Add	5.81	
22 07 19 00-0759	LF	14"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.19	7.60
			For Single Layer Of Felt Finish, Add	1.07	
			For Work In Restricted Working Space, Add	8.10	
22 07 19 00-0760	LF	16"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.60	8.91
			For Single Layer Of Felt Finish, Add	1.22	
			For Work In Restricted Working Space, Add	8.10	
22 07 19 00-0761	LF	18"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.13	9.37
			For Single Layer Of Felt Finish, Add	1.45	
			For Work In Restricted Working Space, Add	8.51	
22 07 19 00-0762	LF	20"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.86	10.69
			For Single Layer Of Felt Finish, Add	1.62	
			For Work In Restricted Working Space, Add	9.72	
22 07 19 00-0763	LF	24"	Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	56.29	12.93
			For Single Layer Of Felt Finish, Add	1.80	
			For Work In Restricted Working Space, Add	11.75	
22 07 19 00-0764 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)					
22 07 19 00-0765	LF	1/2"	Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.03	3.73
			For Single Layer Of Felt Finish, Add	0.41	
			For Work In Restricted Working Space, Add	3.04	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0766 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.16	3.73
For Single Layer Of Felt Finish, Add	0.42	
For Work In Restricted Working Space, Add	3.04	
22 07 19 00-0767 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.60	3.73
For Single Layer Of Felt Finish, Add	0.45	
For Work In Restricted Working Space, Add	3.08	
22 07 19 00-0768 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.92	3.82
For Single Layer Of Felt Finish, Add	0.48	
For Work In Restricted Working Space, Add	3.11	
22 07 19 00-0769 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.26	3.82
For Single Layer Of Felt Finish, Add	0.51	
For Work In Restricted Working Space, Add	3.13	
22 07 19 00-0770 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.89	4.01
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	3.26	
22 07 19 00-0771 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.68	4.10
For Single Layer Of Felt Finish, Add	0.57	
For Work In Restricted Working Space, Add	3.38	
22 07 19 00-0772 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.42	4.30
For Single Layer Of Felt Finish, Add	0.61	
For Work In Restricted Working Space, Add	3.49	
22 07 19 00-0773 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.00	4.48
For Single Layer Of Felt Finish, Add	0.71	
For Work In Restricted Working Space, Add	3.68	
22 07 19 00-0774 LF 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.73	4.76
For Single Layer Of Felt Finish, Add	0.82	
For Work In Restricted Working Space, Add	4.19	
22 07 19 00-0775 LF 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.66	5.69
For Single Layer Of Felt Finish, Add	1.27	
For Work In Restricted Working Space, Add	4.67	
22 07 19 00-0776 LF 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	32.75	6.53
For Single Layer Of Felt Finish, Add	1.56	
For Work In Restricted Working Space, Add	5.38	
22 07 19 00-0777 LF 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	38.06	8.12
For Single Layer Of Felt Finish, Add	1.66	
For Work In Restricted Working Space, Add	6.69	
22 07 19 00-0778 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	42.66	8.96
For Single Layer Of Felt Finish, Add	1.92	
For Work In Restricted Working Space, Add	7.30	
22 07 19 00-0779 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	51.29	11.39
For Single Layer Of Felt Finish, Add	2.12	
For Work In Restricted Working Space, Add	9.33	
22 07 19 00-0780 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	54.82	11.95
For Single Layer Of Felt Finish, Add	2.33	
For Work In Restricted Working Space, Add	9.80	
22 07 19 00-0781 LF 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	62.34	13.63
For Single Layer Of Felt Finish, Add	2.63	
For Work In Restricted Working Space, Add	11.20	
22 07 19 00-0782 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	73.85	16.47
For Single Layer Of Felt Finish, Add	3.02	
For Work In Restricted Working Space, Add	13.53	
22 07 19 00-0783 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0784 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.48	4.12
For Single Layer Of Felt Finish, Add	0.45	
For Work In Restricted Working Space, Add	3.36	
22 07 19 00-0785 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.62	4.12
For Single Layer Of Felt Finish, Add	0.46	
For Work In Restricted Working Space, Add	3.36	
22 07 19 00-0786 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.07	4.16
For Single Layer Of Felt Finish, Add	0.50	
For Work In Restricted Working Space, Add	3.40	
22 07 19 00-0787 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.41	4.19
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	3.42	
22 07 19 00-0788 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.81	4.23
For Single Layer Of Felt Finish, Add	0.56	
For Work In Restricted Working Space, Add	3.46	
22 07 19 00-0789 LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.46	4.40
For Single Layer Of Felt Finish, Add	0.58	
For Work In Restricted Working Space, Add	3.59	
22 07 19 00-0790 LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.31	4.55
For Single Layer Of Felt Finish, Add	0.63	
For Work In Restricted Working Space, Add	3.71	
22 07 19 00-0791 LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.14	4.72
For Single Layer Of Felt Finish, Add	0.67	
For Work In Restricted Working Space, Add	3.84	
22 07 19 00-0792 LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.89	4.98
For Single Layer Of Felt Finish, Add	0.77	
For Work In Restricted Working Space, Add	4.05	
22 07 19 00-0793 LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.88	5.64
For Single Layer Of Felt Finish, Add	0.90	
For Work In Restricted Working Space, Add	4.60	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0794	LF		8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.38	6.29
			For Single Layer Of Felt Finish, Add	1.39	
			For Work In Restricted Working Space, Add	5.13	
22 07 19 00-0795	LF		10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.99	7.26
			For Single Layer Of Felt Finish, Add	1.71	
			For Work In Restricted Working Space, Add	5.92	
22 07 19 00-0796	LF		12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.83	9.02
			For Single Layer Of Felt Finish, Add	1.82	
			For Work In Restricted Working Space, Add	7.36	
22 07 19 00-0797	LF		14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	46.89	9.86
			For Single Layer Of Felt Finish, Add	2.11	
			For Work In Restricted Working Space, Add	8.03	
22 07 19 00-0798	LF		16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	56.37	12.59
			For Single Layer Of Felt Finish, Add	2.33	
			For Work In Restricted Working Space, Add	10.26	
22 07 19 00-0799	LF		18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.25	13.23
			For Single Layer Of Felt Finish, Add	2.55	
			For Work In Restricted Working Space, Add	10.78	
22 07 19 00-0800	LF		20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	68.51	15.12
			For Single Layer Of Felt Finish, Add	2.88	
			For Work In Restricted Working Space, Add	12.32	
22 07 19 00-0801	LF		24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	81.16	18.26
			For Single Layer Of Felt Finish, Add	3.31	
			For Work In Restricted Working Space, Add	14.89	
22 07 19 00-0802			3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703).....		
22 07 19 00-0803	LF		1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.78	4.48
			For Single Layer Of Felt Finish, Add	0.47	
			For Work In Restricted Working Space, Add	3.68	
22 07 19 00-0804	LF		3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.95	4.48
			For Single Layer Of Felt Finish, Add	0.49	
			For Work In Restricted Working Space, Add	3.68	
22 07 19 00-0805	LF		1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.54	4.48
			For Single Layer Of Felt Finish, Add	0.54	
			For Work In Restricted Working Space, Add	3.71	
22 07 19 00-0806	LF		1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.90	4.58
			For Single Layer Of Felt Finish, Add	0.57	
			For Work In Restricted Working Space, Add	3.73	
22 07 19 00-0807	LF		1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.37	4.58
			For Single Layer Of Felt Finish, Add	0.61	
			For Work In Restricted Working Space, Add	3.78	
22 07 19 00-0808	LF		2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.04	4.76
			For Single Layer Of Felt Finish, Add	0.63	
			For Work In Restricted Working Space, Add	3.91	
22 07 19 00-0809	LF		2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.99	4.95
			For Single Layer Of Felt Finish, Add	0.68	
			For Work In Restricted Working Space, Add	4.04	
22 07 19 00-0810	LF		3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.84	5.13
			For Single Layer Of Felt Finish, Add	0.72	
			For Work In Restricted Working Space, Add	4.19	
22 07 19 00-0811	LF		4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.82	5.41
			For Single Layer Of Felt Finish, Add	0.85	
			For Work In Restricted Working Space, Add	4.43	
22 07 19 00-0812	LF		6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.07	6.16
			For Single Layer Of Felt Finish, Add	0.98	
			For Work In Restricted Working Space, Add	5.02	
22 07 19 00-0813	LF		8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.17	6.81
			For Single Layer Of Felt Finish, Add	1.52	
			For Work In Restricted Working Space, Add	5.60	
22 07 19 00-0814	LF		10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.31	7.84
			For Single Layer Of Felt Finish, Add	1.87	
			For Work In Restricted Working Space, Add	6.46	
22 07 19 00-0815	LF		12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.68	9.80
			For Single Layer Of Felt Finish, Add	1.99	
			For Work In Restricted Working Space, Add	8.03	
22 07 19 00-0816	LF		14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	51.20	10.73
			For Single Layer Of Felt Finish, Add	2.31	
			For Work In Restricted Working Space, Add	8.76	
22 07 19 00-0817	LF		16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	61.57	13.63
			For Single Layer Of Felt Finish, Add	2.55	
			For Work In Restricted Working Space, Add	11.20	
22 07 19 00-0818	LF		18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	65.78	14.37
			For Single Layer Of Felt Finish, Add	2.79	
			For Work In Restricted Working Space, Add	11.76	
22 07 19 00-0819	LF		20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	74.83	16.43
			For Single Layer Of Felt Finish, Add	3.15	
			For Work In Restricted Working Space, Add	13.45	
22 07 19 00-0820	LF		24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.62	19.79
			For Single Layer Of Felt Finish, Add	3.62	
			For Work In Restricted Working Space, Add	16.24	

22 07 19 00-0821 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0822	LF	1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.89	5.04
		For Single Layer Of Felt Finish, Add	0.55	
		For Work In Restricted Working Space, Add	4.09	
22 07 19 00-0823	LF	3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.07	5.04
		For Single Layer Of Felt Finish, Add	0.57	
		For Work In Restricted Working Space, Add	4.09	
22 07 19 00-0824	LF	1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.70	5.04
		For Single Layer Of Felt Finish, Add	0.61	
		For Work In Restricted Working Space, Add	4.16	
22 07 19 00-0825	LF	1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.20	5.13
		For Single Layer Of Felt Finish, Add	0.65	
		For Work In Restricted Working Space, Add	4.21	
22 07 19 00-0826	LF	1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.98	5.32
		For Single Layer Of Felt Finish, Add	0.68	
		For Work In Restricted Working Space, Add	4.34	
22 07 19 00-0827	LF	2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.70	5.50
		For Single Layer Of Felt Finish, Add	0.71	
		For Work In Restricted Working Space, Add	4.48	
22 07 19 00-0828	LF	2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.48	5.50
		For Single Layer Of Felt Finish, Add	0.77	
		For Work In Restricted Working Space, Add	4.55	
22 07 19 00-0829	LF	3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.52	5.78
		For Single Layer Of Felt Finish, Add	0.82	
		For Work In Restricted Working Space, Add	4.71	
22 07 19 00-0830	LF	4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.66	6.07
		For Single Layer Of Felt Finish, Add	0.95	
		For Work In Restricted Working Space, Add	4.97	
22 07 19 00-0831	LF	6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	29.31	6.91
		For Single Layer Of Felt Finish, Add	1.10	
		For Work In Restricted Working Space, Add	5.64	
22 07 19 00-0832	LF	8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	37.32	7.46
		For Single Layer Of Felt Finish, Add	1.72	
		For Work In Restricted Working Space, Add	6.29	
22 07 19 00-0833	LF	10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	44.22	8.86
		For Single Layer Of Felt Finish, Add	2.10	
		For Work In Restricted Working Space, Add	7.27	
22 07 19 00-0834	LF	12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	51.40	11.01
		For Single Layer Of Felt Finish, Add	2.24	
		For Work In Restricted Working Space, Add	9.03	
22 07 19 00-0835	LF	14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	57.62	12.04
		For Single Layer Of Felt Finish, Add	2.60	
		For Work In Restricted Working Space, Add	9.86	
22 07 19 00-0836	LF	16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	69.31	15.40
		For Single Layer Of Felt Finish, Add	2.86	
		For Work In Restricted Working Space, Add	12.61	
22 07 19 00-0837	LF	18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	73.97	16.14
		For Single Layer Of Felt Finish, Add	3.14	
		For Work In Restricted Working Space, Add	13.22	
22 07 19 00-0838	LF	20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	83.40	18.48
		For Single Layer Of Felt Finish, Add	3.46	
		For Work In Restricted Working Space, Add	15.13	
22 07 19 00-0839	LF	24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	99.72	22.30
		For Single Layer Of Felt Finish, Add	4.07	
		For Work In Restricted Working Space, Add	18.28	
22 07 19 00-0840	LF	26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	114.84	26.31
		For Single Layer Of Felt Finish, Add	4.52	
		For Work In Restricted Working Space, Add	21.54	
22 07 19 00-0841	LF	28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	131.05	30.98
		For Single Layer Of Felt Finish, Add	4.88	
		For Work In Restricted Working Space, Add	25.36	
22 07 19 00-0842	LF	30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	149.91	36.59
		For Single Layer Of Felt Finish, Add	5.23	
		For Work In Restricted Working Space, Add	30.04	
22 07 19 00-0843	LF	36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	183.87	46.51
		For Single Layer Of Felt Finish, Add	5.94	
		For Work In Restricted Working Space, Add	38.20	
22 07 19 00-0844	LF	42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	217.83	56.65
		For Single Layer Of Felt Finish, Add	6.65	
		For Work In Restricted Working Space, Add	46.36	
22 07 19 00-0845	LF	44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	236.07	62.26
		For Single Layer Of Felt Finish, Add	6.90	
		For Work In Restricted Working Space, Add	51.09	
22 07 19 00-0846	LF	46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	252.12	67.01
		For Single Layer Of Felt Finish, Add	7.18	
		For Work In Restricted Working Space, Add	55.12	

22 07 19 00-0847 Foamglas Pipe Insulation, Rigid, Closed Cell (22 07 19)

Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

22 07 19 00-0848 1" Thick Foamglas Pipe Insulation (22 07 19 00-0847)

22 07 19 00-0849	LF	1/2" Diameter Pipe, 1" Thick Foamglas Insulation	16.44	4.56
		For Work In Restricted Working Space, Add	4.14	



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0850	LF	3/4"	Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.11 4.14	4.56
22 07 19 00-0851	LF	1"	Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.99 4.20	4.62
22 07 19 00-0852	LF	1-1/4"	Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.42 4.26	4.69
22 07 19 00-0853	LF	1-1/2"	Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.08 4.32	4.75
22 07 19 00-0854	LF	2"	Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.34 4.44	4.88
22 07 19 00-0855	LF	2-1/2"	Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.91 4.62	5.09
22 07 19 00-0856	LF	3"	Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	23.62 4.74	5.22
22 07 19 00-0857	LF	4"	Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	27.30 5.10	5.61
22 07 19 00-0858	LF	6"	Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	34.75 5.76	6.33
22 07 19 00-0859 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)					
22 07 19 00-0860	LF	1/2"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.49 4.44	5.05
22 07 19 00-0861	LF	3/4"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.91 4.44	5.05
22 07 19 00-0862	LF	1"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.53 4.50	5.11
22 07 19 00-0863	LF	1-1/4"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.03 4.56	5.18
22 07 19 00-0864	LF	1-1/2"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.50 4.62	5.25
22 07 19 00-0865	LF	2"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	23.32 4.77	5.42
22 07 19 00-0866	LF	2-1/2"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	26.41 4.95	5.62
22 07 19 00-0867	LF	3"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.16 5.10	5.79
22 07 19 00-0868	LF	4"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	33.04 5.43	6.17
22 07 19 00-0869	LF	6"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	38.91 6.15	6.99
22 07 19 00-0870	LF	8"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	43.51 6.86	7.80
22 07 19 00-0871	LF	10"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	52.79 7.91	8.98
22 07 19 00-0872	LF	12"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	62.64 9.83	11.18
22 07 19 00-0873	LF	14"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	69.61 10.68	11.75
22 07 19 00-0874	LF	16"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	76.61 11.93	13.13
22 07 19 00-0875	LF	18"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	86.83 14.11	15.52
22 07 19 00-0876	LF	20"	Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	97.00 15.62	17.18
22 07 19 00-0877	LF	24"	Diameter Pipe, 1-1/2" Thick Fiberglass Insulation..... <i>For Work In Restricted Working Space, Add</i>	121.18 17.31	19.04
22 07 19 00-0878 2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)					
22 07 19 00-0879	LF	1/2"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.91 4.74	5.22
22 07 19 00-0880	LF	3/4"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	22.57 4.74	5.22
22 07 19 00-0881	LF	1"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	23.41 4.80	5.27
22 07 19 00-0882	LF	1-1/4"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	24.65 4.86	5.35
22 07 19 00-0883	LF	1-1/2"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	25.90 4.92	5.41
22 07 19 00-0884	LF	2"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	28.97 5.10	5.61
22 07 19 00-0885	LF	2-1/2"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	30.38 5.28	5.81
22 07 19 00-0886	LF	3"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	32.61 5.46	6.01
22 07 19 00-0887	LF	4"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	36.74 5.76	6.34
22 07 19 00-0888	LF	6"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	43.95 6.54	7.19
22 07 19 00-0889	LF	8"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	48.93 7.29	8.03
22 07 19 00-0890	LF	10"	Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	59.57 8.41	9.24

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0891	LF	12" Diameter Pipe, 2" Thick Foamglas Insulation	73.79	11.50
		<i>For Work In Restricted Working Space, Add</i>	10.45	
22 07 19 00-0892	LF	14" Diameter Pipe, 2" Thick Foamglas Insulation	78.82	12.55
		<i>For Work In Restricted Working Space, Add</i>	11.41	
22 07 19 00-0893	LF	16" Diameter Pipe, 2" Thick Foamglas Insulation	93.13	16.04
		<i>For Work In Restricted Working Space, Add</i>	14.59	
22 07 19 00-0894	LF	18" Diameter Pipe, 2" Thick Foamglas Insulation	101.56	16.85
		<i>For Work In Restricted Working Space, Add</i>	15.31	
22 07 19 00-0895	LF	20" Diameter Pipe, 2" Thick Foamglas Insulation	112.33	19.25
		<i>For Work In Restricted Working Space, Add</i>	17.50	
22 07 19 00-0896	LF	24" Diameter Pipe, 2" Thick Foamglas Insulation	140.94	23.26
		<i>For Work In Restricted Working Space, Add</i>	21.15	
22 07 19 00-0897 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)				
22 07 19 00-0898	LF	1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	26.63	5.65
		<i>For Work In Restricted Working Space, Add</i>	5.14	
22 07 19 00-0899	LF	3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	27.75	5.64
		<i>For Work In Restricted Working Space, Add</i>	5.14	
22 07 19 00-0900	LF	1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	29.16	5.74
		<i>For Work In Restricted Working Space, Add</i>	5.22	
22 07 19 00-0901	LF	1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	30.42	5.78
		<i>For Work In Restricted Working Space, Add</i>	5.26	
22 07 19 00-0902	LF	1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	31.69	5.83
		<i>For Work In Restricted Working Space, Add</i>	5.30	
22 07 19 00-0903	LF	2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	33.98	6.07
		<i>For Work In Restricted Working Space, Add</i>	5.52	
22 07 19 00-0904	LF	2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	36.17	6.28
		<i>For Work In Restricted Working Space, Add</i>	5.71	
22 07 19 00-0905	LF	3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	39.31	6.50
		<i>For Work In Restricted Working Space, Add</i>	5.91	
22 07 19 00-0906	LF	4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	44.07	6.85
		<i>For Work In Restricted Working Space, Add</i>	6.23	
22 07 19 00-0907	LF	6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	52.72	7.80
		<i>For Work In Restricted Working Space, Add</i>	7.08	
22 07 19 00-0908	LF	8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	58.74	8.69
		<i>For Work In Restricted Working Space, Add</i>	7.90	
22 07 19 00-0909	LF	10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	67.02	10.02
		<i>For Work In Restricted Working Space, Add</i>	9.11	
22 07 19 00-0910	LF	12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	83.46	12.45
		<i>For Work In Restricted Working Space, Add</i>	11.32	
22 07 19 00-0911	LF	14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	86.98	13.59
		<i>For Work In Restricted Working Space, Add</i>	12.35	
22 07 19 00-0912	LF	16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	102.46	17.37
		<i>For Work In Restricted Working Space, Add</i>	15.79	
22 07 19 00-0913	LF	18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	111.47	18.24
		<i>For Work In Restricted Working Space, Add</i>	16.58	
22 07 19 00-0914	LF	20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	128.16	20.84
		<i>For Work In Restricted Working Space, Add</i>	18.95	
22 07 19 00-0915	LF	24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	160.59	25.19
		<i>For Work In Restricted Working Space, Add</i>	22.90	
22 07 19 00-0916 3" Thick Foamglas Pipe Insulation (22 07 19 00-0847)				
22 07 19 00-0917	LF	1/2" Diameter Pipe, 3" Thick Foamglas Insulation	32.26	6.02
		<i>For Work In Restricted Working Space, Add</i>	5.47	
22 07 19 00-0918	LF	3/4" Diameter Pipe, 3" Thick Foamglas Insulation	32.93	6.02
		<i>For Work In Restricted Working Space, Add</i>	5.47	
22 07 19 00-0919	LF	1" Diameter Pipe, 3" Thick Foamglas Insulation	33.90	6.12
		<i>For Work In Restricted Working Space, Add</i>	5.56	
22 07 19 00-0920	LF	1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation	34.70	6.15
		<i>For Work In Restricted Working Space, Add</i>	5.60	
22 07 19 00-0921	LF	1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation	35.55	6.21
		<i>For Work In Restricted Working Space, Add</i>	5.64	
22 07 19 00-0922	LF	2" Diameter Pipe, 3" Thick Foamglas Insulation	38.22	6.46
		<i>For Work In Restricted Working Space, Add</i>	5.87	
22 07 19 00-0923	LF	2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation	40.78	6.68
		<i>For Work In Restricted Working Space, Add</i>	6.07	
22 07 19 00-0924	LF	3" Diameter Pipe, 3" Thick Foamglas Insulation	46.38	6.92
		<i>For Work In Restricted Working Space, Add</i>	6.29	
22 07 19 00-0925	LF	4" Diameter Pipe, 3" Thick Foamglas Insulation	52.99	7.29
		<i>For Work In Restricted Working Space, Add</i>	6.63	
22 07 19 00-0926	LF	6" Diameter Pipe, 3" Thick Foamglas Insulation	58.01	8.29
		<i>For Work In Restricted Working Space, Add</i>	7.54	
22 07 19 00-0927	LF	8" Diameter Pipe, 3" Thick Foamglas Insulation	65.52	9.24
		<i>For Work In Restricted Working Space, Add</i>	8.40	
22 07 19 00-0928	LF	10" Diameter Pipe, 3" Thick Foamglas Insulation	78.21	10.66
		<i>For Work In Restricted Working Space, Add</i>	9.69	
22 07 19 00-0929	LF	12" Diameter Pipe, 3" Thick Foamglas Insulation	90.76	13.25
		<i>For Work In Restricted Working Space, Add</i>	12.04	
22 07 19 00-0930	LF	14" Diameter Pipe, 3" Thick Foamglas Insulation	97.14	14.45
		<i>For Work In Restricted Working Space, Add</i>	13.14	
22 07 19 00-0931	LF	16" Diameter Pipe, 3" Thick Foamglas Insulation	115.85	18.48
		<i>For Work In Restricted Working Space, Add</i>	16.80	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 07 19 00-0932	LF 18" Diameter Pipe, 3" Thick Foamglas Insulation.....	124.06		19.40
	For Work In Restricted Working Space, Add	17.64		
22 07 19 00-0933	LF 20" Diameter Pipe, 3" Thick Foamglas Insulation.....	145.44		22.17
	For Work In Restricted Working Space, Add	20.16		
22 07 19 00-0934	LF 24" Diameter Pipe, 3" Thick Foamglas Insulation.....	177.85		26.80
	For Work In Restricted Working Space, Add	24.36		
22 07 19 00-0935 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)				
22 07 19 00-0936	LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	38.84		7.29
	For Work In Restricted Working Space, Add	6.63		
22 07 19 00-0937	LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	39.68		7.29
	For Work In Restricted Working Space, Add	6.63		
22 07 19 00-0938	LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	40.68		7.33
	For Work In Restricted Working Space, Add	6.67		
22 07 19 00-0939	LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	41.66		7.38
	For Work In Restricted Working Space, Add	6.71		
22 07 19 00-0940	LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	42.80		7.47
	For Work In Restricted Working Space, Add	6.80		
22 07 19 00-0941	LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	47.15		7.74
	For Work In Restricted Working Space, Add	7.03		
22 07 19 00-0942	LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	51.53		8.01
	For Work In Restricted Working Space, Add	7.28		
22 07 19 00-0943	LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	54.47		8.29
	For Work In Restricted Working Space, Add	7.54		
22 07 19 00-0944	LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	58.34		8.76
	For Work In Restricted Working Space, Add	7.97		
22 07 19 00-0945	LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	67.18		9.95
	For Work In Restricted Working Space, Add	9.04		
22 07 19 00-0946	LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	76.41		11.08
	For Work In Restricted Working Space, Add	10.07		
22 07 19 00-0947	LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	91.45		12.79
	For Work In Restricted Working Space, Add	11.62		
22 07 19 00-0948	LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	107.96		15.89
	For Work In Restricted Working Space, Add	14.45		
22 07 19 00-0949	LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	112.51		17.35
	For Work In Restricted Working Space, Add	15.77		
22 07 19 00-0950	LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	134.69		22.17
	For Work In Restricted Working Space, Add	20.16		
22 07 19 00-0951	LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	148.19		23.29
	For Work In Restricted Working Space, Add	21.17		
22 07 19 00-0952	LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	168.71		26.63
	For Work In Restricted Working Space, Add	24.21		
22 07 19 00-0953	LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....	207.24		32.15
	For Work In Restricted Working Space, Add	29.23		
22 07 19 00-0954 4" Thick Foamglas Pipe Insulation (22 07 19 00-0847)				
22 07 19 00-0955	LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation.....	47.28		8.96
	For Work In Restricted Working Space, Add	8.14		
22 07 19 00-0956	LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation.....	48.37		8.96
	For Work In Restricted Working Space, Add	8.14		
22 07 19 00-0957	LF 1" Diameter Pipe, 4" Thick Foamglas Insulation.....	49.93		9.11
	For Work In Restricted Working Space, Add	8.28		
22 07 19 00-0958	LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation.....	51.34		9.22
	For Work In Restricted Working Space, Add	8.38		
22 07 19 00-0959	LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation.....	53.32		9.51
	For Work In Restricted Working Space, Add	8.64		
22 07 19 00-0960	LF 2" Diameter Pipe, 4" Thick Foamglas Insulation.....	57.66		9.80
	For Work In Restricted Working Space, Add	8.91		
22 07 19 00-0961	LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation.....	61.57		9.96
	For Work In Restricted Working Space, Add	9.05		
22 07 19 00-0962	LF 3" Diameter Pipe, 4" Thick Foamglas Insulation.....	64.65		10.32
	For Work In Restricted Working Space, Add	9.38		
22 07 19 00-0963	LF 4" Diameter Pipe, 4" Thick Foamglas Insulation.....	70.62		11.51
	For Work In Restricted Working Space, Add	10.46		
22 07 19 00-0964	LF 6" Diameter Pipe, 4" Thick Foamglas Insulation.....	81.84		12.35
	For Work In Restricted Working Space, Add	11.24		
22 07 19 00-0965	LF 8" Diameter Pipe, 4" Thick Foamglas Insulation.....	92.50		13.40
	For Work In Restricted Working Space, Add	12.18		
22 07 19 00-0966	LF 10" Diameter Pipe, 4" Thick Foamglas Insulation.....	105.84		15.92
	For Work In Restricted Working Space, Add	14.48		
22 07 19 00-0967	LF 12" Diameter Pipe, 4" Thick Foamglas Insulation.....	123.48		19.78
	For Work In Restricted Working Space, Add	17.98		
22 07 19 00-0968	LF 14" Diameter Pipe, 4" Thick Foamglas Insulation.....	134.25		21.60
	For Work In Restricted Working Space, Add	19.64		
22 07 19 00-0969	LF 16" Diameter Pipe, 4" Thick Foamglas Insulation.....	159.05		27.61
	For Work In Restricted Working Space, Add	25.11		
22 07 19 00-0970	LF 18" Diameter Pipe, 4" Thick Foamglas Insulation.....	177.23		28.94
	For Work In Restricted Working Space, Add	26.31		
22 07 19 00-0971	LF 20" Diameter Pipe, 4" Thick Foamglas Insulation.....	198.56		33.12
	For Work In Restricted Working Space, Add	30.11		
22 07 19 00-0972	LF 24" Diameter Pipe, 4" Thick Foamglas Insulation.....	252.15		40.02
	For Work In Restricted Working Space, Add	36.38		



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 07 19 00-0973	Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19) Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). No additional linear feet for fittings required.				
22 07 19 00-0974	3/8" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)				
22 07 19 00-0975	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	5.87		2.79	
	For Work In Restricted Working Space, Add	1.68			
22 07 19 00-0976	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	5.88		2.79	
	For Work In Restricted Working Space, Add	1.68			
22 07 19 00-0977	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.10		2.90	
	For Work In Restricted Working Space, Add	1.73			
22 07 19 00-0978	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.35		2.99	
	For Work In Restricted Working Space, Add	1.80			
22 07 19 00-0979	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.55		3.04	
	For Work In Restricted Working Space, Add	1.82			
22 07 19 00-0980	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.78		3.09	
	For Work In Restricted Working Space, Add	1.85			
22 07 19 00-0981	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.87		3.09	
	For Work In Restricted Working Space, Add	1.86			
22 07 19 00-0982	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.12		3.09	
	For Work In Restricted Working Space, Add	1.87			
22 07 19 00-0983	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.62		3.18	
	For Work In Restricted Working Space, Add	1.93			
22 07 19 00-0984	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.85		3.24	
	For Work In Restricted Working Space, Add	1.96			
22 07 19 00-0985	1/2" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)				
22 07 19 00-0986	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.49		3.04	
	For Work In Restricted Working Space, Add	1.82			
22 07 19 00-0987	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.56		3.04	
	For Work In Restricted Working Space, Add	1.84			
22 07 19 00-0988	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.65		3.09	
	For Work In Restricted Working Space, Add	1.85			
22 07 19 00-0989	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.77		3.11	
	For Work In Restricted Working Space, Add	1.87			
22 07 19 00-0990	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.07		3.18	
	For Work In Restricted Working Space, Add	1.91			
22 07 19 00-0991	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.31		3.24	
	For Work In Restricted Working Space, Add	1.94			
22 07 19 00-0992	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.58		3.29	
	For Work In Restricted Working Space, Add	1.97			
22 07 19 00-0993	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.90		3.33	
	For Work In Restricted Working Space, Add	2.00			
22 07 19 00-0994	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.49		3.43	
	For Work In Restricted Working Space, Add	2.06			
22 07 19 00-0995	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.06		3.48	
	For Work In Restricted Working Space, Add	2.09			
22 07 19 00-0996	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.60		3.53	
	For Work In Restricted Working Space, Add	2.12			
22 07 19 00-0997	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.94		3.57	
	For Work In Restricted Working Space, Add	2.15			
22 07 19 00-0998	3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)				
22 07 19 00-0999	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.17		3.29	
	For Work In Restricted Working Space, Add	1.97			
22 07 19 00-1000	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.26		3.33	
	For Work In Restricted Working Space, Add	2.00			
22 07 19 00-1001	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.67		3.43	
	For Work In Restricted Working Space, Add	2.06			
22 07 19 00-1002	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.86		3.48	
	For Work In Restricted Working Space, Add	2.09			
22 07 19 00-1003	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.36		3.57	
	For Work In Restricted Working Space, Add	2.15			
22 07 19 00-1004	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.84		3.63	
	For Work In Restricted Working Space, Add	2.18			
22 07 19 00-1005	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.06		3.65	
	For Work In Restricted Working Space, Add	2.19			
22 07 19 00-1006	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.90		3.68	
	For Work In Restricted Working Space, Add	2.21			
22 07 19 00-1007	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.11		3.77	
	For Work In Restricted Working Space, Add	2.27			
22 07 19 00-1008	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.20		3.82	
	For Work In Restricted Working Space, Add	2.29			
22 07 19 00-1009	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.06		3.87	
	For Work In Restricted Working Space, Add	2.33			
22 07 19 00-1010	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.42		3.92	
	For Work In Restricted Working Space, Add	2.35			
22 07 19 00-1011	1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)				



	Plumbing	22	
	Plumbing Insulation	22 07	22
	Plumbing Piping Insulation	22 07 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1012 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.11	3.63
For Work In Restricted Working Space, Add	2.18	
22 07 19 00-1013 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.29	3.68
For Work In Restricted Working Space, Add	2.21	
22 07 19 00-1014 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.86	3.77
For Work In Restricted Working Space, Add	2.27	
22 07 19 00-1015 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.03	3.82
For Work In Restricted Working Space, Add	2.29	
22 07 19 00-1016 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.85	3.92
For Work In Restricted Working Space, Add	2.35	
22 07 19 00-1017 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.29	4.02
For Work In Restricted Working Space, Add	2.41	
22 07 19 00-1018 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.47	4.07
For Work In Restricted Working Space, Add	2.44	
22 07 19 00-1019 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.23	4.11
For Work In Restricted Working Space, Add	2.47	
22 07 19 00-1020 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.81	4.21
For Work In Restricted Working Space, Add	2.53	
22 07 19 00-1021 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.30	4.27
For Work In Restricted Working Space, Add	2.56	
22 07 19 00-1022 Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19)		
Note: No additional LF for fittings required.		
22 07 19 00-1023 3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-1022)		
22 07 19 00-1024 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	6.41	2.79
For Work In Restricted Working Space, Add	1.68	
22 07 19 00-1025 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	6.54	2.79
For Work In Restricted Working Space, Add	1.68	
22 07 19 00-1026 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	6.81	2.90
For Work In Restricted Working Space, Add	1.73	
22 07 19 00-1027 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	6.99	2.94
For Work In Restricted Working Space, Add	1.76	
22 07 19 00-1028 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.18	2.99
For Work In Restricted Working Space, Add	1.80	
22 07 19 00-1029 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.43	3.04
For Work In Restricted Working Space, Add	1.82	
22 07 19 00-1030 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.64	3.09
For Work In Restricted Working Space, Add	1.85	
22 07 19 00-1031 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.89	3.09
For Work In Restricted Working Space, Add	1.86	
22 07 19 00-1032 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.10	3.09
For Work In Restricted Working Space, Add	1.87	
22 07 19 00-1033 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.32	3.14
For Work In Restricted Working Space, Add	1.88	
22 07 19 00-1034 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.62	3.18
For Work In Restricted Working Space, Add	1.91	
22 07 19 00-1035 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.88	3.18
For Work In Restricted Working Space, Add	1.93	
22 07 19 00-1036 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.07	3.24
For Work In Restricted Working Space, Add	1.94	
22 07 19 00-1037 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.34	3.24
For Work In Restricted Working Space, Add	1.96	
22 07 19 00-1038 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.95	3.29
For Work In Restricted Working Space, Add	1.97	
22 07 19 00-1039 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.66	3.33
For Work In Restricted Working Space, Add	2.00	
22 07 19 00-1040 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.46	3.35
For Work In Restricted Working Space, Add	2.01	
22 07 19 00-1041 1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-1022)		
22 07 19 00-1042 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.32	3.04
For Work In Restricted Working Space, Add	1.82	
22 07 19 00-1043 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.44	3.04
For Work In Restricted Working Space, Add	1.84	
22 07 19 00-1044 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.56	3.09
For Work In Restricted Working Space, Add	1.85	
22 07 19 00-1045 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.76	3.09
For Work In Restricted Working Space, Add	1.86	
22 07 19 00-1046 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.92	3.09
For Work In Restricted Working Space, Add	1.87	
22 07 19 00-1047 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.27	3.18
For Work In Restricted Working Space, Add	1.91	
22 07 19 00-1048 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.62	3.24
For Work In Restricted Working Space, Add	1.94	
22 07 19 00-1049 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.92	3.29
For Work In Restricted Working Space, Add	1.97	
22 07 19 00-1050 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.25	3.31
For Work In Restricted Working Space, Add	1.99	
22 07 19 00-1051 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.51	3.33
For Work In Restricted Working Space, Add	2.00	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1052	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.54 2.03	3.39
22 07 19 00-1053	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.14 2.06	3.43
22 07 19 00-1054	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.61 2.08	3.46
22 07 19 00-1055	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.99 2.09	3.48
22 07 19 00-1056	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.28 2.10	3.51
22 07 19 00-1057	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.51 2.12	3.53
22 07 19 00-1058	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.69 2.15	3.57
22 07 19 00-1059	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.96 2.16	3.60
22 07 19 00-1060	LF	5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.13 2.18	3.63
22 07 19 00-1061	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.46 2.23	3.72
22 07 19 00-1062	LF	8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.97 2.29	3.82
22 07 19 00-1063 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-1022)				
22 07 19 00-1064	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.56 1.97	3.29
22 07 19 00-1065	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.82 2.00	3.33
22 07 19 00-1066	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.22 2.06	3.43
22 07 19 00-1067	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.47 2.08	3.46
22 07 19 00-1068	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.57 2.09	3.48
22 07 19 00-1069	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.17 2.15	3.57
22 07 19 00-1070	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.66 2.18	3.63
22 07 19 00-1071	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.15 2.21	3.68
22 07 19 00-1072	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.29 2.21	3.68
22 07 19 00-1073	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.49 2.22	3.70
22 07 19 00-1074	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.08 2.24	3.72
22 07 19 00-1075	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.40 2.27	3.77
22 07 19 00-1076	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.09 2.28	3.80
22 07 19 00-1077	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.56 2.29	3.82
22 07 19 00-1078	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.29 2.31	3.85
22 07 19 00-1079	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.57 2.33	3.87
22 07 19 00-1080	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.66 2.35	3.92
22 07 19 00-1081	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.55 2.37	3.94
22 07 19 00-1082	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.04 2.38	3.96
22 07 19 00-1083	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.60 2.41	4.02
22 07 19 00-1084	LF	8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.46 2.47	4.11
22 07 19 00-1085 1" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-1022)				
22 07 19 00-1086	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.17 2.18	3.62
22 07 19 00-1087	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.51 2.21	3.68
22 07 19 00-1088	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.92 2.27	3.77
22 07 19 00-1089	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.30 2.28	3.80
22 07 19 00-1090	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.64 2.29	3.82
22 07 19 00-1091	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.19 2.35	3.92
22 07 19 00-1092	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.08 2.41	4.02



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 07 19 00-1093	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.53	4.02		
22 07 19 00-1094	LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.16	4.07		
22 07 19 00-1095	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.37	4.11		
22 07 19 00-1096	LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.73	4.17		
22 07 19 00-1097	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.78	4.21		
22 07 19 00-1098	LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.13	4.24		
22 07 19 00-1099	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.52	4.27		
22 07 19 00-1100	LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.23	4.30		
22 07 19 00-1101	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.55	4.32		
22 07 19 00-1102	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	22.12	4.42		
22 07 19 00-1103	LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	23.85	4.47		
22 07 19 00-1104	LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	26.44	4.51		
22 07 19 00-1105	LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.16	4.61		
22 07 19 00-1106 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-1022)					
22 07 19 00-1107	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.41	4.06		
22 07 19 00-1108	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.84	4.14		
22 07 19 00-1109	LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.22	4.17		
22 07 19 00-1110	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.62	4.20		
22 07 19 00-1111	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.13	4.31		
22 07 19 00-1112	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.96	4.47		
22 07 19 00-1113	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.22	4.40		
22 07 19 00-1114	LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.32	4.50		
22 07 19 00-1115	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.98	4.61		
22 07 19 00-1116	LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	24.11	4.67		
22 07 19 00-1117	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	26.13	4.72		
22 07 19 00-1118	LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	27.07	4.74		
22 07 19 00-1119	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	28.01	4.75		
22 07 19 00-1120	LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.11	4.78		
22 07 19 00-1121	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.81	4.80		
22 07 19 00-1122	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	33.53	4.98		
22 07 19 00-1123	LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	35.53	5.05		
22 07 19 00-1124	LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.44	5.12		
22 07 19 00-1125	LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	45.27	5.28		
22 07 19 00-1126 2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-1022)					
22 07 19 00-1127	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	24.58	4.48		
22 07 19 00-1128	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	25.60	4.55		
22 07 19 00-1129	LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	27.44	4.59		
22 07 19 00-1130	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	28.06	4.62		
22 07 19 00-1131	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.57	4.72		
22 07 19 00-1132	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	31.37	4.94		
22 07 19 00-1133	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	32.47	4.82		

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1134 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	34.43 3.04	4.98
22 07 19 00-1135 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	36.31 3.09	5.15
22 07 19 00-1136 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	37.59 3.12	5.22
22 07 19 00-1137 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	40.22 3.15	5.28
22 07 19 00-1138 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	40.52 3.17	5.29
22 07 19 00-1139 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	42.99 3.19	5.30
22 07 19 00-1140 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	44.71 3.20	5.32
22 07 19 00-1141 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	46.54 3.20	5.35
22 07 19 00-1142 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	52.54 3.35	5.60
22 07 19 00-1143 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	56.03 3.42	5.71
22 07 19 00-1144 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	57.01 3.50	5.82
22 07 19 00-1145 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	64.27 3.63	6.06
22 07 19 00-1146 Flexible Polyolefin Tubing Closed Cell Foam Insulation (22 07 19) Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. No additional LF for fittings required.		
22 07 19 00-1147 3/8" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
22 07 19 00-1148 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.28 1.68	2.79
22 07 19 00-1149 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.39 1.68	2.79
22 07 19 00-1150 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.63 1.73	2.90
22 07 19 00-1151 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.97 1.80	2.99
22 07 19 00-1152 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.18 1.82	3.04
22 07 19 00-1153 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.60 1.85	3.09
22 07 19 00-1154 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.94 1.86	3.09
22 07 19 00-1155 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.19 1.87	3.18
22 07 19 00-1156 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.25 1.93	3.18
22 07 19 00-1157 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.23 1.96	3.24
22 07 19 00-1158 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.80 2.00	3.33
22 07 19 00-1159 1/2" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
22 07 19 00-1160 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.15 1.82	3.04
22 07 19 00-1161 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.23 1.84	3.04
22 07 19 00-1162 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.41 1.85	3.09
22 07 19 00-1163 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.68 1.87	3.09
22 07 19 00-1164 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.95 1.91	3.18
22 07 19 00-1165 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.42 1.94	3.24
22 07 19 00-1166 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.93 1.97	3.29
22 07 19 00-1167 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.43 2.00	3.33
22 07 19 00-1168 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.57 2.06	3.43
22 07 19 00-1169 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.62 2.09	3.48
22 07 19 00-1170 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.61 2.15	3.57
22 07 19 00-1171 3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
22 07 19 00-1172 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.18 1.97	3.29



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1173	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.52	3.33	
		For Work In Restricted Working Space, Add	2.00		
22 07 19 00-1174	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.91	3.43	
		For Work In Restricted Working Space, Add	2.06		
22 07 19 00-1175	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.60	3.48	
		For Work In Restricted Working Space, Add	2.09		
22 07 19 00-1176	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.21	3.57	
		For Work In Restricted Working Space, Add	2.15		
22 07 19 00-1177	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.37	3.63	
		For Work In Restricted Working Space, Add	2.18		
22 07 19 00-1178	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.15	3.63	
		For Work In Restricted Working Space, Add	2.19		
22 07 19 00-1179	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.02	3.68	
		For Work In Restricted Working Space, Add	2.21		
22 07 19 00-1180	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.66	3.77	
		For Work In Restricted Working Space, Add	2.27		
22 07 19 00-1181	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.20	3.82	
		For Work In Restricted Working Space, Add	2.29		
22 07 19 00-1182	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	19.14	3.92	
		For Work In Restricted Working Space, Add	2.35		

22 07 19 00-1183 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)

22 07 19 00-1184	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.05	3.63	
		For Work In Restricted Working Space, Add	2.18		
22 07 19 00-1185	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.21	3.68	
		For Work In Restricted Working Space, Add	2.21		
22 07 19 00-1186	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.60	3.77	
		For Work In Restricted Working Space, Add	2.27		
22 07 19 00-1187	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.64	3.82	
		For Work In Restricted Working Space, Add	2.29		
22 07 19 00-1188	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.44	3.92	
		For Work In Restricted Working Space, Add	2.35		
22 07 19 00-1189	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.26	4.02	
		For Work In Restricted Working Space, Add	2.41		
22 07 19 00-1190	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.11	4.02	
		For Work In Restricted Working Space, Add	2.44		
22 07 19 00-1191	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.07	4.11	
		For Work In Restricted Working Space, Add	2.47		
22 07 19 00-1192	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	18.66	4.21	
		For Work In Restricted Working Space, Add	2.53		
22 07 19 00-1193	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	20.52	4.27	
		For Work In Restricted Working Space, Add	2.56		

22 10 Plumbing Piping (22)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution (22 10)**22 11 16 Domestic Water Piping** (22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies (22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002	LF	1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	14.19	3.41	
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		For ASTM 120, Deduct	-0.43		
		For Work In Restricted Working Space, Add	3.39		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	3.56		
22 11 16 00-0003	LF	3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	15.51	3.66	
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		For ASTM 120, Deduct	-0.53		
		For Work In Restricted Working Space, Add	3.59		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	3.99		
22 11 16 00-0004	LF	1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	17.42	4.01	
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		For ASTM 120, Deduct	-0.70		
		For Work In Restricted Working Space, Add	3.83		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	4.64		
22 11 16 00-0005	LF	1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	20.25	4.18	
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		For ASTM 120, Deduct	-1.00		
		For Work In Restricted Working Space, Add	4.07		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	5.72		

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0006	LF		1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 21.76 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -1.14 For Work In Restricted Working Space, Add 4.25 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 6.25	4.94	
22 11 16 00-0007	LF		2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 26.19 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -1.51 For Work In Restricted Working Space, Add 4.83 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 7.76	5.97	
22 11 16 00-0008	LF		2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 38.61 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -2.96 For Work In Restricted Working Space, Add 5.66 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 12.65	7.07	
22 11 16 00-0009	LF		3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 47.29 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -3.66 For Work In Restricted Working Space, Add 6.87 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 15.56	9.46	
22 11 16 00-0010	LF		4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 74.57 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -7.44 For Work In Restricted Working Space, Add 7.49 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 27.31	10.69	
22 11 16 00-0011	LF		5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 141.89 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -16.76 For Work In Restricted Working Space, Add 9.05 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 56.31	13.66	
22 11 16 00-0012	LF		6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly 164.55 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -19.54 For Work In Restricted Working Space, Add 10.28 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 65.48	16.16	
22 11 16 00-0013			Galvanized Steel Pipe And Threaded Fittings (22 11 16) Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014			Threaded And Coupled, Galvanized Steel Piping (22 11 16 00-0013) Note: ASTM A-53. Includes coupling.		
22 11 16 00-0015	LF		1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....6.49 For ASTM 120, Deduct -0.20 For Work In Restricted Working Space, Add 1.55 For Schedule 80 Pipe, Add 1.15	3.41	
22 11 16 00-0016	LF		3/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....7.25 For ASTM 120, Deduct -0.26 For Work In Restricted Working Space, Add 1.65 For Schedule 80 Pipe, Add 1.39	3.66	
22 11 16 00-0017	LF		1" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....8.57 For ASTM 120, Deduct -0.39 For Work In Restricted Working Space, Add 1.79 For Schedule 80 Pipe, Add 1.85	4.01	
22 11 16 00-0018	LF		1-1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe 9.85 For ASTM 120, Deduct -0.53 For Work In Restricted Working Space, Add 1.89 For Schedule 80 Pipe, Add 2.33	4.18	
22 11 16 00-0019	LF		1-1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe 11.64 For ASTM 120, Deduct -0.63 For Work In Restricted Working Space, Add 2.22 For Schedule 80 Pipe, Add 2.77	4.94	
22 11 16 00-0020	LF		2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....14.65 For ASTM 120, Deduct -0.85 For Work In Restricted Working Space, Add 2.69 For Schedule 80 Pipe, Add 3.62	5.97	
22 11 16 00-0021	LF		2-1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe 19.67 For ASTM 120, Deduct -1.35 For Work In Restricted Working Space, Add 3.20 For Schedule 80 Pipe, Add 5.39	7.07	
22 11 16 00-0022	LF		3" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....26.00 For ASTM 120, Deduct -1.77 For Work In Restricted Working Space, Add 4.26 For Schedule 80 Pipe, Add 7.08	9.46	
22 11 16 00-0023	LF		4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....32.88 For ASTM 120, Deduct -2.52 For Work In Restricted Working Space, Add 4.82 For Schedule 80 Pipe, Add 9.67	10.69	



	Plumbing	22	
	Plumbing Piping	22 10	22
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0024	LF		5" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	42.99 -3.38 6.14 12.86	13.66
22 11 16 00-0025	LF		6" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	53.43 -4.38 7.26 16.45	16.16
22 11 16 00-0026 Galvanized Malleable Iron 90 Degree Elbows (22 11 16 00-0013)					
22 11 16 00-0027	EA		1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	27.22 -0.68 6.82 16.66	15.17
22 11 16 00-0028	EA		3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	30.96 -0.83 7.63 20.33	16.96
22 11 16 00-0029	EA		1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	38.65 -1.54 8.52 36.55	18.92
22 11 16 00-0030	EA		1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	48.34 -2.43 9.65 56.98	21.48
22 11 16 00-0031	EA		1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	57.40 -3.17 10.88 74.05	24.19
22 11 16 00-0032	EA		2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	80.67 -5.19 13.82 120.47	30.76
22 11 16 00-0033	EA		2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	158.75 -13.59 20.45 312.10	45.50
22 11 16 00-0034	EA		3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	239.04 -22.40 26.91 513.17	59.82
22 11 16 00-0035	EA		4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	357.18 -39.51 28.13 901.25	62.52
22 11 16 00-0036	EA		5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	1,235.43 -170.64 29.35 3,873.68	65.26
22 11 16 00-0037	EA		6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	1,151.02 -157.31 30.69 3,571.82	68.23
22 11 16 00-0038 Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)					
22 11 16 00-0039	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	33.70 -1.44 7.22	16.02
22 11 16 00-0040	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	39.26 -1.85 8.08	17.97
22 11 16 00-0041	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	38.66 -1.97 7.67	17.04
22 11 16 00-0042	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	50.98 -3.11 9.08	20.20
22 11 16 00-0043	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	53.66 -3.73 8.64	19.17
22 11 16 00-0044	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	53.78 -3.95 8.23	18.32
22 11 16 00-0045	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	67.29 -4.96 10.26	22.83
22 11 16 00-0046	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	65.41 -4.96 9.70	21.56
22 11 16 00-0047	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	63.94 -4.96 9.26	20.53

22	Plumbing
22 10	Plumbing Piping
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0048	EA	2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	79.81	27.43
		For ASTM 120, Deduct	-5.80	
		For Work In Restricted Working Space, Add	12.35	
22 11 16 00-0049	EA	2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	83.42	26.08
		For ASTM 120, Deduct	-6.65	
		For Work In Restricted Working Space, Add	11.73	
22 11 16 00-0050	EA	2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	83.21	24.80
		For ASTM 120, Deduct	-6.90	
		For Work In Restricted Working Space, Add	11.17	
22 11 16 00-0051	EA	2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	70.63	23.86
		For ASTM 120, Deduct	-5.23	
		For Work In Restricted Working Space, Add	10.73	
22 11 16 00-0052	EA	2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	188.14	38.09
		For ASTM 120, Deduct	-19.65	
		For Work In Restricted Working Space, Add	17.13	
22 11 16 00-0053	EA	2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	198.19	34.85
		For ASTM 120, Deduct	-21.90	
		For Work In Restricted Working Space, Add	15.66	
22 11 16 00-0054	EA	3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	317.08	52.65
		For ASTM 120, Deduct	-35.72	
		For Work In Restricted Working Space, Add	23.68	
22 11 16 00-0055	EA	3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	274.71	45.25
		For ASTM 120, Deduct	-31.03	
		For Work In Restricted Working Space, Add	20.36	
22 11 16 00-0056	EA	4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	628.09	59.47
		For ASTM 120, Deduct	-80.84	
		For Work In Restricted Working Space, Add	26.76	
22 11 16 00-0057 Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)				
22 11 16 00-0058	EA	1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	29.84	15.17
		For ASTM 120, Deduct	-1.07	
		For Work In Restricted Working Space, Add	6.82	
		For 300 LB Rating, Add	25.57	
22 11 16 00-0059	EA	3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	35.68	16.96
		For ASTM 120, Deduct	-1.54	
		For Work In Restricted Working Space, Add	7.63	
		For 300 LB Rating, Add	36.38	
22 11 16 00-0060	EA	1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	39.96	18.92
		For ASTM 120, Deduct	-1.73	
		For Work In Restricted Working Space, Add	8.52	
		For 300 LB Rating, Add	41.01	
22 11 16 00-0061	EA	1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	53.76	21.48
		For ASTM 120, Deduct	-3.24	
		For Work In Restricted Working Space, Add	9.65	
		For 300 LB Rating, Add	75.40	
22 11 16 00-0062	EA	1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	61.65	24.19
		For ASTM 120, Deduct	-3.81	
		For Work In Restricted Working Space, Add	10.88	
		For 300 LB Rating, Add	88.50	
22 11 16 00-0063	EA	2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	83.62	30.76
		For ASTM 120, Deduct	-5.64	
		For Work In Restricted Working Space, Add	13.82	
		For 300 LB Rating, Add	130.50	
22 11 16 00-0064	EA	2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	198.86	45.50
		For ASTM 120, Deduct	-19.61	
		For Work In Restricted Working Space, Add	20.45	
		For 300 LB Rating, Add	448.47	
22 11 16 00-0065	EA	3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	279.78	59.82
		For ASTM 120, Deduct	-28.51	
		For Work In Restricted Working Space, Add	26.91	
		For 300 LB Rating, Add	651.69	
22 11 16 00-0066	EA	4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	412.45	62.52
		For ASTM 120, Deduct	-47.80	
		For Work In Restricted Working Space, Add	28.13	
		For 300 LB Rating, Add	1,089.17	
22 11 16 00-0067	EA	5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,385.60	65.26
		For ASTM 120, Deduct	-193.16	
		For Work In Restricted Working Space, Add	29.35	
		For 300 LB Rating, Add	4,384.25	
22 11 16 00-0068	EA	6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,655.03	68.23
		For ASTM 120, Deduct	-232.91	
		For Work In Restricted Working Space, Add	30.69	
		For 300 LB Rating, Add	5,285.45	
22 11 16 00-0069 Galvanized Malleable Iron Tees (22 11 16 00-0013)				
22 11 16 00-0070	EA	1/2", 150 LB, Galvanized Malleable Iron Tee	34.23	18.92
		For ASTM 120, Deduct	-0.87	
		For Work In Restricted Working Space, Add	8.52	
		For 300 LB Rating, Add	21.53	
22 11 16 00-0071	EA	3/4", 150 LB, Galvanized Malleable Iron Tee	42.39	21.90
		For ASTM 120, Deduct	-1.44	
		For Work In Restricted Working Space, Add	9.83	
		For 300 LB Rating, Add	34.67	



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	Plumbing Piping	22 10	22
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0072	EA	1"	150 LB, Galvanized Malleable Iron Tee.....	54.28	25.81
			For ASTM 120, Deduct	-2.33	
			For Work In Restricted Working Space, Add	11.62	
			For 300 LB Rating, Add	55.19	
22 11 16 00-0073	EA	1-1/4"	150 LB, Galvanized Malleable Iron Tee	70.74	30.76
			For ASTM 120, Deduct	-3.70	
			For Work In Restricted Working Space, Add	13.82	
			For 300 LB Rating, Add	86.71	
22 11 16 00-0074	EA	1-1/2"	150 LB, Galvanized Malleable Iron Tee	85.65	36.64
			For ASTM 120, Deduct	-4.60	
			For Work In Restricted Working Space, Add	16.49	
			For 300 LB Rating, Add	107.61	
22 11 16 00-0075	EA	2"	150 LB, Galvanized Malleable Iron Tee.....	118.03	45.50
			For ASTM 120, Deduct	-7.48	
			For Work In Restricted Working Space, Add	20.45	
			For 300 LB Rating, Add	173.65	
22 11 16 00-0076	EA	2-1/2"	150 LB, Galvanized Malleable Iron Tee	214.50	49.42
			For ASTM 120, Deduct	-21.06	
			For Work In Restricted Working Space, Add	22.23	
			For 300 LB Rating, Add	481.84	
22 11 16 00-0077	EA	3"	150 LB, Galvanized Malleable Iron Tee.....	254.35	59.82
			For ASTM 120, Deduct	-24.70	
			For Work In Restricted Working Space, Add	26.91	
			For 300 LB Rating, Add	565.23	
22 11 16 00-0078	EA	4"	150 LB, Galvanized Malleable Iron Tee.....	507.96	79.00
			For ASTM 120, Deduct	-58.43	
			For Work In Restricted Working Space, Add	35.53	
			For 300 LB Rating, Add	1,331.47	
22 11 16 00-0079	EA	5"	150 LB, Galvanized Malleable Iron Tee.....	1,365.05	93.79
			For ASTM 120, Deduct	-183.66	
			For Work In Restricted Working Space, Add	42.19	
			For 300 LB Rating, Add	4,171.43	
22 11 16 00-0080	EA	6"	150 LB, Galvanized Malleable Iron Tee.....	1,549.50	107.21
			For ASTM 120, Deduct	-208.32	
			For Work In Restricted Working Space, Add	48.22	
			For 300 LB Rating, Add	4,731.46	
22 11 16 00-0081			Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)		
22 11 16 00-0082	EA	1/2"	150 LB, Galvanized Malleable Iron Reducing Tee.....	41.96	18.92
			For ASTM 120, Deduct	-2.03	
			For Work In Restricted Working Space, Add	8.52	
			For 300 LB Rating, Add	47.81	
22 11 16 00-0083	EA	3/4"	150 LB, Galvanized Malleable Iron Reducing Tee.....	46.14	21.90
			For ASTM 120, Deduct	-2.01	
			For Work In Restricted Working Space, Add	9.83	
			For 300 LB Rating, Add	47.42	
22 11 16 00-0084	EA	1"	150 LB, Galvanized Malleable Iron Reducing Tee.....	57.52	25.81
			For ASTM 120, Deduct	-2.82	
			For Work In Restricted Working Space, Add	11.62	
			For 300 LB Rating, Add	66.21	
22 11 16 00-0085	EA	1-1/4"	150 LB, Galvanized Malleable Iron Reducing Tee	75.19	30.76
			For ASTM 120, Deduct	-4.37	
			For Work In Restricted Working Space, Add	13.82	
			For 300 LB Rating, Add	101.84	
22 11 16 00-0086	EA	1-1/2"	150 LB, Galvanized Malleable Iron Reducing Tee	90.96	36.64
			For ASTM 120, Deduct	-5.40	
			For Work In Restricted Working Space, Add	16.49	
			For 300 LB Rating, Add	125.66	
22 11 16 00-0087	EA	2"	150 LB, Galvanized Malleable Iron Reducing Tee.....	120.70	45.50
			For ASTM 120, Deduct	-7.88	
			For Work In Restricted Working Space, Add	20.45	
			For 300 LB Rating, Add	182.73	
22 11 16 00-0088	EA	2-1/2"	150 LB, Galvanized Malleable Iron Reducing Tee	259.90	49.59
			For ASTM 120, Deduct	-27.84	
			For Work In Restricted Working Space, Add	22.30	
			For 300 LB Rating, Add	635.43	
22 11 16 00-0089	EA	3"	150 LB, Galvanized Malleable Iron Reducing Tee.....	331.79	60.76
			For ASTM 120, Deduct	-36.10	
			For Work In Restricted Working Space, Add	27.33	
			For 300 LB Rating, Add	823.78	
22 11 16 00-0090	EA	4"	150 LB, Galvanized Malleable Iron Reducing Tee.....	816.14	79.00
			For ASTM 120, Deduct	-104.66	
			For Work In Restricted Working Space, Add	35.53	
			For 300 LB Rating, Add	2,379.29	
22 11 16 00-0091	EA	5"	150 LB, Galvanized Malleable Iron Reducing Tee.....	1,758.94	93.79
			For ASTM 120, Deduct	-242.75	
			For Work In Restricted Working Space, Add	42.19	
			For 300 LB Rating, Add	5,510.66	
22 11 16 00-0092	EA	6"	150 LB, Galvanized Malleable Iron Reducing Tee.....	1,996.25	107.21
			For ASTM 120, Deduct	-275.33	
			For Work In Restricted Working Space, Add	48.22	
			For 300 LB Rating, Add	6,250.41	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0093 Galvanized Malleable Iron Couplings (22 11 16 00-0013)		
22 11 16 00-0094 EA 1/2", 150 LB, Galvanized Malleable Iron Coupling.....	29.32	15.17
For ASTM 120, Deduct	-0.99	
For Work In Restricted Working Space, Add	6.82	
For 300 LB Rating, Add	23.80	
22 11 16 00-0095 EA 3/4", 150 LB, Galvanized Malleable Iron Coupling.....	33.03	16.96
For ASTM 120, Deduct	-1.14	
For Work In Restricted Working Space, Add	7.63	
For 300 LB Rating, Add	27.37	
22 11 16 00-0096 EA 1", 150 LB, Galvanized Malleable Iron Coupling.....	40.86	18.92
For ASTM 120, Deduct	-1.87	
For Work In Restricted Working Space, Add	8.52	
For 300 LB Rating, Add	44.07	
22 11 16 00-0097 EA 1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	49.72	21.48
For ASTM 120, Deduct	-2.64	
For Work In Restricted Working Space, Add	9.65	
For 300 LB Rating, Add	61.67	
22 11 16 00-0098 EA 1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	56.23	24.19
For ASTM 120, Deduct	-3.00	
For Work In Restricted Working Space, Add	10.88	
For 300 LB Rating, Add	70.07	
22 11 16 00-0099 EA 2", 150 LB, Galvanized Malleable Iron Coupling.....	75.25	30.76
For ASTM 120, Deduct	-4.38	
For Work In Restricted Working Space, Add	13.82	
For 300 LB Rating, Add	102.04	
22 11 16 00-0100 EA 2-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	157.54	45.50
For ASTM 120, Deduct	-13.41	
For Work In Restricted Working Space, Add	20.45	
For 300 LB Rating, Add	307.98	
22 11 16 00-0101 EA 3", 150 LB, Galvanized Malleable Iron Coupling.....	209.15	59.82
For ASTM 120, Deduct	-17.92	
For Work In Restricted Working Space, Add	26.91	
For 300 LB Rating, Add	411.55	
22 11 16 00-0102 EA 4", 150 LB, Galvanized Malleable Iron Coupling.....	347.47	62.52
For ASTM 120, Deduct	-38.06	
For Work In Restricted Working Space, Add	28.13	
For 300 LB Rating, Add	868.24	
22 11 16 00-0103 EA 5", 150 LB, Galvanized Malleable Iron Coupling.....	812.24	65.26
For ASTM 120, Deduct	-107.16	
For Work In Restricted Working Space, Add	29.35	
For 300 LB Rating, Add	2,434.83	
22 11 16 00-0104 EA 6", 150 LB, Galvanized Malleable Iron Coupling.....	916.19	68.23
For ASTM 120, Deduct	-122.09	
For Work In Restricted Working Space, Add	30.69	
For 300 LB Rating, Add	2,773.40	
22 11 16 00-0105 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0106 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	30.72	15.17
For ASTM 120, Deduct	-1.20	
For Work In Restricted Working Space, Add	6.82	
For 300 LB Rating, Add	28.56	
22 11 16 00-0107 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	33.98	16.96
For ASTM 120, Deduct	-1.28	
For Work In Restricted Working Space, Add	7.63	
For 300 LB Rating, Add	30.60	
22 11 16 00-0108 EA 1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	42.66	18.92
For ASTM 120, Deduct	-2.14	
For Work In Restricted Working Space, Add	8.52	
For 300 LB Rating, Add	50.19	
22 11 16 00-0109 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	50.59	21.48
For ASTM 120, Deduct	-2.77	
For Work In Restricted Working Space, Add	9.65	
For 300 LB Rating, Add	64.63	
22 11 16 00-0110 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	60.04	24.19
For ASTM 120, Deduct	-3.57	
For Work In Restricted Working Space, Add	10.88	
For 300 LB Rating, Add	83.03	
22 11 16 00-0111 EA 2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	78.49	30.76
For ASTM 120, Deduct	-4.87	
For Work In Restricted Working Space, Add	13.82	
For 300 LB Rating, Add	113.06	
22 11 16 00-0112 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	158.67	45.50
For ASTM 120, Deduct	-13.58	
For Work In Restricted Working Space, Add	20.45	
For 300 LB Rating, Add	311.82	
22 11 16 00-0113 EA 3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	205.77	59.82
For ASTM 120, Deduct	-17.41	
For Work In Restricted Working Space, Add	26.91	
For 300 LB Rating, Add	400.05	
22 11 16 00-0114 EA 4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	354.01	62.52
For ASTM 120, Deduct	-39.04	
For Work In Restricted Working Space, Add	28.13	
For 300 LB Rating, Add	890.48	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0115	EA	5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	849.85	65.26
		For ASTM 120, Deduct	-112.80	
		For Work In Restricted Working Space, Add	29.35	
		For 300 LB Rating, Add	2,562.70	
22 11 16 00-0116	EA	6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	959.02	68.23
		For ASTM 120, Deduct	-128.51	
		For Work In Restricted Working Space, Add	30.69	
		For 300 LB Rating, Add	2,919.02	
22 11 16 00-0117 Galvanized Malleable Iron Caps (22 11 16 00-0013)				
22 11 16 00-0118	EA	1/2", 150 LB, Galvanized Malleable Iron Cap	15.64	7.07
		For ASTM 120, Deduct	-0.75	
		For Work In Restricted Working Space, Add	3.20	
		For 300 LB Rating, Add	17.61	
22 11 16 00-0119	EA	3/4", 150 LB, Galvanized Malleable Iron Cap	18.27	7.59
		For ASTM 120, Deduct	-1.04	
		For Work In Restricted Working Space, Add	3.41	
		For 300 LB Rating, Add	24.18	
22 11 16 00-0120	EA	1", 150 LB, Galvanized Malleable Iron Cap	21.68	8.78
		For ASTM 120, Deduct	-1.29	
		For Work In Restricted Working Space, Add	3.93	
		For 300 LB Rating, Add	29.92	
22 11 16 00-0121	EA	1-1/4", 150 LB, Galvanized Malleable Iron Cap	25.03	9.20
		For ASTM 120, Deduct	-1.69	
		For Work In Restricted Working Space, Add	4.13	
		For 300 LB Rating, Add	39.18	
22 11 16 00-0122	EA	1-1/2", 150 LB, Galvanized Malleable Iron Cap	28.20	9.20
		For ASTM 120, Deduct	-2.17	
		For Work In Restricted Working Space, Add	4.13	
		For 300 LB Rating, Add	49.96	
22 11 16 00-0123	EA	2", 150 LB, Galvanized Malleable Iron Cap	38.56	12.19
		For ASTM 120, Deduct	-3.03	
		For Work In Restricted Working Space, Add	5.50	
		For 300 LB Rating, Add	69.88	
22 11 16 00-0124	EA	2-1/2", 150 LB, Galvanized Malleable Iron Cap	81.49	15.17
		For ASTM 120, Deduct	-8.82	
		For Work In Restricted Working Space, Add	6.82	
		For 300 LB Rating, Add	201.18	
22 11 16 00-0125	EA	3", 150 LB, Galvanized Malleable Iron Cap	98.70	18.32
		For ASTM 120, Deduct	-10.68	
		For Work In Restricted Working Space, Add	8.24	
		For 300 LB Rating, Add	243.80	
22 11 16 00-0126	EA	4", 150 LB, Galvanized Malleable Iron Cap	189.50	21.46
		For ASTM 120, Deduct	-23.60	
		For Work In Restricted Working Space, Add	9.64	
		For 300 LB Rating, Add	536.95	
22 11 16 00-0127	EA	5", 150 LB, Galvanized Malleable Iron Cap	462.36	26.84
		For ASTM 120, Deduct	-63.33	
		For Work In Restricted Working Space, Add	12.05	
		For 300 LB Rating, Add	1,437.82	
22 11 16 00-0128	EA	6", 150 LB, Galvanized Malleable Iron Cap	581.43	31.90
		For ASTM 120, Deduct	-80.03	
		For Work In Restricted Working Space, Add	14.36	
		For 300 LB Rating, Add	1,816.94	
22 11 16 00-0129 Galvanized Malleable Iron Unions (22 11 16 00-0013)				
22 11 16 00-0130	EA	1/2", 150 LB, Galvanized Malleable Iron Union	47.90	18.92
		For Work In Restricted Working Space, Add	8.52	
22 11 16 00-0131	EA	3/4", 150 LB, Galvanized Malleable Iron Union	55.18	21.90
		For Work In Restricted Working Space, Add	9.83	
22 11 16 00-0132	EA	1", 150 LB, Galvanized Malleable Iron Union	68.08	25.81
		For Work In Restricted Working Space, Add	11.62	
22 11 16 00-0133	EA	1-1/4", 150 LB, Galvanized Malleable Iron Union	88.48	30.76
		For Work In Restricted Working Space, Add	13.82	
22 11 16 00-0134	EA	1-1/2", 150 LB, Galvanized Malleable Iron Union	106.39	36.64
		For Work In Restricted Working Space, Add	16.49	
22 11 16 00-0135	EA	2", 150 LB, Galvanized Malleable Iron Union	127.26	45.50
		For Work In Restricted Working Space, Add	20.45	
22 11 16 00-0136	EA	2-1/2", 150 LB, Galvanized Malleable Iron Union	305.95	67.06
		For Work In Restricted Working Space, Add	30.19	
22 11 16 00-0137	EA	3", 150 LB, Galvanized Malleable Iron Union	419.77	88.19
		For Work In Restricted Working Space, Add	39.72	
22 11 16 00-0138	EA	1/2", 250 LB, Galvanized Malleable Iron Union	68.06	18.92
		For Work In Restricted Working Space, Add	8.52	
22 11 16 00-0139	EA	3/4", 250 LB, Galvanized Malleable Iron Union	68.81	21.90
		For Work In Restricted Working Space, Add	9.83	
22 11 16 00-0140	EA	1", 250 LB, Galvanized Malleable Iron Union	83.41	25.81
		For Work In Restricted Working Space, Add	11.62	
22 11 16 00-0141	EA	1-1/4", 250 LB, Galvanized Malleable Iron Union	113.71	30.76
		For Work In Restricted Working Space, Add	13.82	
22 11 16 00-0142	EA	1-1/2", 250 LB, Galvanized Malleable Iron Union	132.87	36.64
		For Work In Restricted Working Space, Add	16.49	

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22 11 16 00-0143	EA	2", 250 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	178.16 20.45	45.50
22 11 16 00-0144	EA	2-1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	390.00 30.19	67.06
22 11 16 00-0145	EA	3", 250 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	576.38 39.72	88.19
22 11 16 00-0146	EA	4", 250 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	834.86 41.52	92.26
22 11 16 00-0147	EA	1/2", 300 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	73.59 8.52	18.92
22 11 16 00-0148	EA	3/4", 300 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	81.78 9.83	21.90
22 11 16 00-0149	EA	1", 300 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	103.74 11.62	25.81
22 11 16 00-0150	EA	1-1/4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	136.70 13.82	30.76
22 11 16 00-0151	EA	1-1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	164.13 16.49	36.64
22 11 16 00-0152	EA	2", 300 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	199.17 20.45	45.50
22 11 16 00-0153	EA	2-1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	466.08 30.19	67.06
22 11 16 00-0154	EA	3", 300 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	750.47 39.72	88.19
22 11 16 00-0155	EA	4", 300 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	1,688.55 41.52	92.26
22 11 16 00-0156 Galvanized Steel Nipples (22 11 16 00-0013)				
Note: ASTM A-53.				
22 11 16 00-0157	EA	3/8" x Close, Schedule 40 Galvanized Steel Nipple..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	13.43 -0.19 3.65 1.43	8.09
22 11 16 00-0158	EA	1/2" x Close, Schedule 40 Galvanized Steel Nipple..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	13.19 -0.15 3.65 1.15	8.09
22 11 16 00-0159	EA	3/4" x Close, Schedule 40 Galvanized Steel Nipple..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	13.41 -0.18 3.65 1.40	8.09
22 11 16 00-0160	EA	1" x Close, Schedule 40 Galvanized Steel Nipple..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	14.80 -0.25 3.93 1.93	8.78
22 11 16 00-0161	EA	1-1/4" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	16.47 -0.34 4.26 2.59	9.46
22 11 16 00-0162	EA	1-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	16.86 -0.40 4.26 3.03	9.46
22 11 16 00-0163	EA	2" x Close, Schedule 40 Galvanized Steel Nipple..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	22.08 -0.56 5.50 4.28	12.19
22 11 16 00-0164	EA	2-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	33.87 -1.67 6.82 12.71	15.17
22 11 16 00-0165	EA	3" x Close, Schedule 40 Galvanized Steel Nipple..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	40.84 -2.00 8.24 15.23	18.32
22 11 16 00-0166	EA	4" x Close, Schedule 40 Galvanized Steel Nipple..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	52.17 -3.00 9.64 22.83	21.46
22 11 16 00-0167	EA	3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	13.62 -0.22 3.65 1.64	8.09
22 11 16 00-0168	EA	1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	13.25 -0.16 3.65 1.22	8.09
22 11 16 00-0169	EA	3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	13.52 -0.20 3.65 1.53	8.09



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0170	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple	13.62	8.09
			For ASTM 120, Deduct	-0.22	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	1.64	
22 11 16 00-0171	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple	13.25	8.09
			For ASTM 120, Deduct	-0.16	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	1.22	
22 11 16 00-0172	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple	13.52	8.09
			For ASTM 120, Deduct	-0.20	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	1.53	
22 11 16 00-0173	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple	15.10	8.78
			For ASTM 120, Deduct	-0.30	
			For Work In Restricted Working Space, Add	3.93	
			For Schedule 80 Nipples, Add	2.27	
22 11 16 00-0174	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple	16.63	9.46
			For ASTM 120, Deduct	-0.36	
			For Work In Restricted Working Space, Add	4.26	
			For Schedule 80 Nipples, Add	2.77	
22 11 16 00-0175	EA		1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple	17.05	9.46
			For ASTM 120, Deduct	-0.43	
			For Work In Restricted Working Space, Add	4.26	
			For Schedule 80 Nipples, Add	3.25	
22 11 16 00-0176	EA		3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	14.10	8.09
			For ASTM 120, Deduct	-0.29	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	2.19	
22 11 16 00-0177	EA		1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	13.43	8.09
			For ASTM 120, Deduct	-0.19	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	1.43	
22 11 16 00-0178	EA		3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	13.66	8.09
			For ASTM 120, Deduct	-0.22	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	1.69	
22 11 16 00-0179	EA		1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.27	8.78
			For ASTM 120, Deduct	-0.32	
			For Work In Restricted Working Space, Add	3.93	
			For Schedule 80 Nipples, Add	2.46	
22 11 16 00-0180	EA		1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	16.87	9.46
			For ASTM 120, Deduct	-0.40	
			For Work In Restricted Working Space, Add	4.26	
			For Schedule 80 Nipples, Add	3.04	
22 11 16 00-0181	EA		1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	17.38	9.46
			For ASTM 120, Deduct	-0.48	
			For Work In Restricted Working Space, Add	4.26	
			For Schedule 80 Nipples, Add	3.63	
22 11 16 00-0182	EA		2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.54	12.19
			For ASTM 120, Deduct	-0.63	
			For Work In Restricted Working Space, Add	5.50	
			For Schedule 80 Nipples, Add	4.80	
22 11 16 00-0183	EA		3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple	14.10	8.09
			For ASTM 120, Deduct	-0.29	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	2.19	
22 11 16 00-0184	EA		1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	13.43	8.09
			For ASTM 120, Deduct	-0.19	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	1.43	
22 11 16 00-0185	EA		3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	13.66	8.09
			For ASTM 120, Deduct	-0.22	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	1.69	
22 11 16 00-0186	EA		1" x 3" Long, Schedule 40 Galvanized Steel Nipple	15.27	8.78
			For ASTM 120, Deduct	-0.32	
			For Work In Restricted Working Space, Add	3.93	
			For Schedule 80 Nipples, Add	2.46	
22 11 16 00-0187	EA		1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	16.87	9.46
			For ASTM 120, Deduct	-0.40	
			For Work In Restricted Working Space, Add	4.26	
			For Schedule 80 Nipples, Add	3.04	
22 11 16 00-0188	EA		1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	17.38	9.46
			For ASTM 120, Deduct	-0.48	
			For Work In Restricted Working Space, Add	4.26	
			For Schedule 80 Nipples, Add	3.63	
22 11 16 00-0189	EA		2" x 3" Long, Schedule 40 Galvanized Steel Nipple	22.54	12.19
			For ASTM 120, Deduct	-0.63	
			For Work In Restricted Working Space, Add	5.50	
			For Schedule 80 Nipples, Add	4.80	
22 11 16 00-0190	EA		2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	34.30	15.17
			For ASTM 120, Deduct	-1.74	
			For Work In Restricted Working Space, Add	6.82	
			For Schedule 80 Nipples, Add	13.20	

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22 11 Facility Water Distribution



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22 11 16 00-0191 EA 3" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	42.68	18.32
For ASTM 120, Deduct	-2.28	
For Work In Restricted Working Space, Add	8.24	
For Schedule 80 Nipples, Add	17.33	
22 11 16 00-0192 EA 3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	14.46	8.09
For ASTM 120, Deduct	-0.34	
For Work In Restricted Working Space, Add	3.65	
For Schedule 80 Nipples, Add	2.60	
22 11 16 00-0193 EA 1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	13.73	8.09
For ASTM 120, Deduct	-0.23	
For Work In Restricted Working Space, Add	3.65	
For Schedule 80 Nipples, Add	1.77	
22 11 16 00-0194 EA 3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	14.10	8.09
For ASTM 120, Deduct	-0.29	
For Work In Restricted Working Space, Add	3.65	
For Schedule 80 Nipples, Add	2.19	
22 11 16 00-0195 EA 1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.70	8.78
For ASTM 120, Deduct	-0.39	
For Work In Restricted Working Space, Add	3.93	
For Schedule 80 Nipples, Add	2.95	
22 11 16 00-0196 EA 1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	17.38	9.46
For ASTM 120, Deduct	-0.48	
For Work In Restricted Working Space, Add	4.26	
For Schedule 80 Nipples, Add	3.63	
22 11 16 00-0197 EA 1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	18.22	9.46
For ASTM 120, Deduct	-0.60	
For Work In Restricted Working Space, Add	4.26	
For Schedule 80 Nipples, Add	4.58	
22 11 16 00-0198 EA 2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.45	12.19
For ASTM 120, Deduct	-0.77	
For Work In Restricted Working Space, Add	5.50	
For Schedule 80 Nipples, Add	5.84	
22 11 16 00-0199 EA 2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	36.16	15.17
For ASTM 120, Deduct	-2.02	
For Work In Restricted Working Space, Add	6.82	
For Schedule 80 Nipples, Add	15.32	
22 11 16 00-0200 EA 3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	45.32	18.32
For ASTM 120, Deduct	-2.68	
For Work In Restricted Working Space, Add	8.24	
For Schedule 80 Nipples, Add	20.34	
22 11 16 00-0201 EA 3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	14.46	8.09
For ASTM 120, Deduct	-0.34	
For Work In Restricted Working Space, Add	3.65	
For Schedule 80 Nipples, Add	2.60	
22 11 16 00-0202 EA 1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	13.73	8.09
For ASTM 120, Deduct	-0.23	
For Work In Restricted Working Space, Add	3.65	
For Schedule 80 Nipples, Add	1.77	
22 11 16 00-0203 EA 3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	14.46	8.09
For ASTM 120, Deduct	-0.34	
For Work In Restricted Working Space, Add	3.65	
For Schedule 80 Nipples, Add	2.60	
22 11 16 00-0204 EA 1" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	15.70	8.78
For ASTM 120, Deduct	-0.39	
For Work In Restricted Working Space, Add	3.93	
For Schedule 80 Nipples, Add	2.95	
22 11 16 00-0205 EA 1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple	17.38	9.46
For ASTM 120, Deduct	-0.48	
For Work In Restricted Working Space, Add	4.26	
For Schedule 80 Nipples, Add	3.63	
22 11 16 00-0206 EA 1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	18.22	9.46
For ASTM 120, Deduct	-0.60	
For Work In Restricted Working Space, Add	4.26	
For Schedule 80 Nipples, Add	4.58	
22 11 16 00-0207 EA 2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	23.49	12.19
For ASTM 120, Deduct	-0.77	
For Work In Restricted Working Space, Add	5.50	
For Schedule 80 Nipples, Add	5.88	
22 11 16 00-0208 EA 2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	36.16	15.17
For ASTM 120, Deduct	-2.02	
For Work In Restricted Working Space, Add	6.82	
For Schedule 80 Nipples, Add	15.32	
22 11 16 00-0209 EA 3" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	45.32	18.32
For ASTM 120, Deduct	-2.68	
For Work In Restricted Working Space, Add	8.24	
For Schedule 80 Nipples, Add	20.34	
22 11 16 00-0210 EA 4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	56.09	21.46
For ASTM 120, Deduct	-3.59	
For Work In Restricted Working Space, Add	9.64	
For Schedule 80 Nipples, Add	27.30	
22 11 16 00-0211 EA 3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.32	8.09
For ASTM 120, Deduct	-0.47	
For Work In Restricted Working Space, Add	3.65	
For Schedule 80 Nipples, Add	3.58	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0212	EA	1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	14.04	8.09
		For ASTM 120, Deduct	.....	-0.28	
		For Work In Restricted Working Space, Add	.....	3.65	
		For Schedule 80 Nipples, Add	.....	2.12	
22 11 16 00-0213	EA	3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	14.47	8.09
		For ASTM 120, Deduct	.....	-0.34	
		For Work In Restricted Working Space, Add	.....	3.65	
		For Schedule 80 Nipples, Add	.....	2.61	
22 11 16 00-0214	EA	1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	16.29	8.78
		For ASTM 120, Deduct	.....	-0.48	
		For Work In Restricted Working Space, Add	.....	3.93	
		For Schedule 80 Nipples, Add	.....	3.63	
22 11 16 00-0215	EA	1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	18.13	9.46
		For ASTM 120, Deduct	.....	-0.59	
		For Work In Restricted Working Space, Add	.....	4.26	
		For Schedule 80 Nipples, Add	.....	4.48	
22 11 16 00-0216	EA	1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	19.06	9.46
		For ASTM 120, Deduct	.....	-0.73	
		For Work In Restricted Working Space, Add	.....	4.26	
		For Schedule 80 Nipples, Add	.....	5.54	
22 11 16 00-0217	EA	2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	24.86	12.19
		For ASTM 120, Deduct	.....	-0.98	
		For Work In Restricted Working Space, Add	.....	5.50	
		For Schedule 80 Nipples, Add	.....	7.44	
22 11 16 00-0218	EA	2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	37.71	15.17
		For ASTM 120, Deduct	.....	-2.25	
		For Work In Restricted Working Space, Add	.....	6.82	
		For Schedule 80 Nipples, Add	.....	17.09	
22 11 16 00-0219	EA	3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	48.27	18.32
		For ASTM 120, Deduct	.....	-3.12	
		For Work In Restricted Working Space, Add	.....	8.24	
		For Schedule 80 Nipples, Add	.....	23.70	
22 11 16 00-0220	EA	4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	59.00	21.46
		For ASTM 120, Deduct	.....	-4.03	
		For Work In Restricted Working Space, Add	.....	9.64	
		For Schedule 80 Nipples, Add	.....	30.62	
22 11 16 00-0221	EA	3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	15.32	8.09
		For ASTM 120, Deduct	.....	-0.47	
		For Work In Restricted Working Space, Add	.....	3.65	
		For Schedule 80 Nipples, Add	.....	3.58	
22 11 16 00-0222	EA	1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	14.04	8.09
		For ASTM 120, Deduct	.....	-0.28	
		For Work In Restricted Working Space, Add	.....	3.65	
		For Schedule 80 Nipples, Add	.....	2.12	
22 11 16 00-0223	EA	3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	14.47	8.09
		For ASTM 120, Deduct	.....	-0.34	
		For Work In Restricted Working Space, Add	.....	3.65	
		For Schedule 80 Nipples, Add	.....	2.61	
22 11 16 00-0224	EA	1" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	16.29	8.78
		For ASTM 120, Deduct	.....	-0.48	
		For Work In Restricted Working Space, Add	.....	3.93	
		For Schedule 80 Nipples, Add	.....	3.63	
22 11 16 00-0225	EA	1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	18.13	9.46
		For ASTM 120, Deduct	.....	-0.59	
		For Work In Restricted Working Space, Add	.....	4.26	
		For Schedule 80 Nipples, Add	.....	4.48	
22 11 16 00-0226	EA	1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	19.06	9.46
		For ASTM 120, Deduct	.....	-0.73	
		For Work In Restricted Working Space, Add	.....	4.26	
		For Schedule 80 Nipples, Add	.....	5.54	
22 11 16 00-0227	EA	2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	24.86	12.19
		For ASTM 120, Deduct	.....	-0.98	
		For Work In Restricted Working Space, Add	.....	5.50	
		For Schedule 80 Nipples, Add	.....	7.44	
22 11 16 00-0228	EA	2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	37.71	15.17
		For ASTM 120, Deduct	.....	-2.25	
		For Work In Restricted Working Space, Add	.....	6.82	
		For Schedule 80 Nipples, Add	.....	17.09	
22 11 16 00-0229	EA	3" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	48.27	18.32
		For ASTM 120, Deduct	.....	-3.12	
		For Work In Restricted Working Space, Add	.....	8.24	
		For Schedule 80 Nipples, Add	.....	23.70	
22 11 16 00-0230	EA	4" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	59.00	21.46
		For ASTM 120, Deduct	.....	-4.03	
		For Work In Restricted Working Space, Add	.....	9.64	
		For Schedule 80 Nipples, Add	.....	30.62	
22 11 16 00-0231	EA	3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	15.66	8.09
		For ASTM 120, Deduct	.....	-0.52	
		For Work In Restricted Working Space, Add	.....	3.65	
		For Schedule 80 Nipples, Add	.....	3.97	
22 11 16 00-0232	EA	1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	14.29	8.09
		For ASTM 120, Deduct	.....	-0.32	
		For Work In Restricted Working Space, Add	.....	3.65	
		For Schedule 80 Nipples, Add	.....	2.41	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0233	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	14.92	8.09
			For ASTM 120, Deduct	-0.41	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	3.12	
22 11 16 00-0234	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	16.71	8.78
			For ASTM 120, Deduct	-0.54	
			For Work In Restricted Working Space, Add	3.93	
			For Schedule 80 Nipples, Add	4.10	
22 11 16 00-0235	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	18.76	9.46
			For ASTM 120, Deduct	-0.68	
			For Work In Restricted Working Space, Add	4.26	
			For Schedule 80 Nipples, Add	5.20	
22 11 16 00-0236	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	19.67	9.46
			For ASTM 120, Deduct	-0.82	
			For Work In Restricted Working Space, Add	4.26	
			For Schedule 80 Nipples, Add	6.24	
22 11 16 00-0237	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	25.92	12.19
			For ASTM 120, Deduct	-1.14	
			For Work In Restricted Working Space, Add	5.50	
			For Schedule 80 Nipples, Add	8.65	
22 11 16 00-0238	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	39.19	15.17
			For ASTM 120, Deduct	-2.47	
			For Work In Restricted Working Space, Add	6.82	
			For Schedule 80 Nipples, Add	18.78	
22 11 16 00-0239	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	49.47	18.32
			For ASTM 120, Deduct	-3.30	
			For Work In Restricted Working Space, Add	8.24	
			For Schedule 80 Nipples, Add	25.07	
22 11 16 00-0240	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	61.83	21.46
			For ASTM 120, Deduct	-4.45	
			For Work In Restricted Working Space, Add	9.64	
			For Schedule 80 Nipples, Add	33.85	
22 11 16 00-0241	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	26.11	8.09
			For ASTM 120, Deduct	-2.09	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	15.88	
22 11 16 00-0242	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	15.90	8.09
			For ASTM 120, Deduct	-0.56	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	4.24	
22 11 16 00-0243	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	16.94	8.09
			For ASTM 120, Deduct	-0.71	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	5.43	
22 11 16 00-0244	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	19.14	8.78
			For ASTM 120, Deduct	-0.90	
			For Work In Restricted Working Space, Add	3.93	
			For Schedule 80 Nipples, Add	6.87	
22 11 16 00-0245	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	21.59	9.46
			For ASTM 120, Deduct	-1.11	
			For Work In Restricted Working Space, Add	4.26	
			For Schedule 80 Nipples, Add	8.42	
22 11 16 00-0246	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	22.68	9.46
			For ASTM 120, Deduct	-1.27	
			For Work In Restricted Working Space, Add	4.26	
			For Schedule 80 Nipples, Add	9.67	
22 11 16 00-0247	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	30.70	12.19
			For ASTM 120, Deduct	-1.86	
			For Work In Restricted Working Space, Add	5.50	
			For Schedule 80 Nipples, Add	14.10	
22 11 16 00-0248	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	43.91	15.17
			For ASTM 120, Deduct	-3.18	
			For Work In Restricted Working Space, Add	6.82	
			For Schedule 80 Nipples, Add	24.16	
22 11 16 00-0249	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	57.10	18.32
			For ASTM 120, Deduct	-4.44	
			For Work In Restricted Working Space, Add	8.24	
			For Schedule 80 Nipples, Add	33.77	
22 11 16 00-0250	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	67.57	21.46
			For ASTM 120, Deduct	-5.31	
			For Work In Restricted Working Space, Add	9.64	
			For Schedule 80 Nipples, Add	40.39	
22 11 16 00-0251	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	18.82	8.09
			For ASTM 120, Deduct	-1.00	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	7.57	
22 11 16 00-0252	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	16.60	8.09
			For ASTM 120, Deduct	-0.66	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	5.04	
22 11 16 00-0253	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	17.46	8.09
			For ASTM 120, Deduct	-0.79	
			For Work In Restricted Working Space, Add	3.65	
			For Schedule 80 Nipples, Add	6.02	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0254	EA	1" x 10" Long, Schedule 40 Galvanized Steel Nipple	.....	20.00	8.78
		For ASTM 120, Deduct	.....	-1.03	
		For Work In Restricted Working Space, Add	.....	3.93	
		For Schedule 80 Nipples, Add	.....	7.85	
22 11 16 00-0255	EA	1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	.....	23.04	9.46
		For ASTM 120, Deduct	.....	-1.33	
		For Work In Restricted Working Space, Add	.....	4.26	
		For Schedule 80 Nipples, Add	.....	10.08	
22 11 16 00-0256	EA	1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	.....	24.09	9.46
		For ASTM 120, Deduct	.....	-1.48	
		For Work In Restricted Working Space, Add	.....	4.26	
		For Schedule 80 Nipples, Add	.....	11.27	
22 11 16 00-0257	EA	2" x 10" Long, Schedule 40 Galvanized Steel Nipple	.....	32.80	12.19
		For ASTM 120, Deduct	.....	-2.17	
		For Work In Restricted Working Space, Add	.....	5.50	
		For Schedule 80 Nipples, Add	.....	16.50	
22 11 16 00-0258	EA	2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	.....	46.88	15.17
		For ASTM 120, Deduct	.....	-3.62	
		For Work In Restricted Working Space, Add	.....	6.82	
		For Schedule 80 Nipples, Add	.....	27.54	
22 11 16 00-0259	EA	3" x 10" Long, Schedule 40 Galvanized Steel Nipple	.....	61.27	18.32
		For ASTM 120, Deduct	.....	-5.07	
		For Work In Restricted Working Space, Add	.....	8.24	
		For Schedule 80 Nipples, Add	.....	38.52	
22 11 16 00-0260	EA	4" x 10" Long, Schedule 40 Galvanized Steel Nipple	.....	73.20	21.46
		For ASTM 120, Deduct	.....	-6.16	
		For Work In Restricted Working Space, Add	.....	9.64	
		For Schedule 80 Nipples, Add	.....	46.81	
22 11 16 00-0261	EA	3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	19.54	8.09
		For ASTM 120, Deduct	.....	-1.10	
		For Work In Restricted Working Space, Add	.....	3.65	
		For Schedule 80 Nipples, Add	.....	8.39	
22 11 16 00-0262	EA	1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	17.21	8.09
		For ASTM 120, Deduct	.....	-0.75	
		For Work In Restricted Working Space, Add	.....	3.65	
		For Schedule 80 Nipples, Add	.....	5.73	
22 11 16 00-0263	EA	3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	18.10	8.09
		For ASTM 120, Deduct	.....	-0.89	
		For Work In Restricted Working Space, Add	.....	3.65	
		For Schedule 80 Nipples, Add	.....	6.75	
22 11 16 00-0264	EA	1" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	21.14	8.78
		For ASTM 120, Deduct	.....	-1.20	
		For Work In Restricted Working Space, Add	.....	3.93	
		For Schedule 80 Nipples, Add	.....	9.15	
22 11 16 00-0265	EA	1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	24.82	9.46
		For ASTM 120, Deduct	.....	-1.59	
		For Work In Restricted Working Space, Add	.....	4.26	
		For Schedule 80 Nipples, Add	.....	12.11	
22 11 16 00-0266	EA	1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	25.52	9.46
		For ASTM 120, Deduct	.....	-1.70	
		For Work In Restricted Working Space, Add	.....	4.26	
		For Schedule 80 Nipples, Add	.....	12.90	
22 11 16 00-0267	EA	2" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	34.94	12.19
		For ASTM 120, Deduct	.....	-2.49	
		For Work In Restricted Working Space, Add	.....	5.50	
		For Schedule 80 Nipples, Add	.....	18.94	
22 11 16 00-0268	EA	2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	49.75	15.17
		For ASTM 120, Deduct	.....	-4.05	
		For Work In Restricted Working Space, Add	.....	6.82	
		For Schedule 80 Nipples, Add	.....	30.81	
22 11 16 00-0269	EA	3" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	65.48	18.32
		For ASTM 120, Deduct	.....	-5.70	
		For Work In Restricted Working Space, Add	.....	8.24	
		For Schedule 80 Nipples, Add	.....	43.32	
22 11 16 00-0270	EA	4" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	78.88	21.46
		For ASTM 120, Deduct	.....	-7.01	
		For Work In Restricted Working Space, Add	.....	9.64	
		For Schedule 80 Nipples, Add	.....	53.28	
22 11 16 00-0271		Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)			
22 11 16 00-0272	EA	1/2", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	17.13	6.05
		For Work In Restricted Working Space, Add	.....	2.73	
		For 300 LB Rating, Add	.....	27.88	
22 11 16 00-0273	EA	3/4", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	18.21	6.81
		For Work In Restricted Working Space, Add	.....	3.05	
		For 300 LB Rating, Add	.....	27.95	
22 11 16 00-0274	EA	1", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	20.18	7.59
		For Work In Restricted Working Space, Add	.....	3.41	
		For 300 LB Rating, Add	.....	30.67	
22 11 16 00-0275	EA	1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	26.42	8.60
		For Work In Restricted Working Space, Add	.....	3.86	
		For 300 LB Rating, Add	.....	46.88	
22 11 16 00-0276	EA	1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	32.76	9.63
		For Work In Restricted Working Space, Add	.....	4.35	
		For 300 LB Rating, Add	.....	62.95	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0277	EA	2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	41.64 5.53 80.05	12.27
22 11 16 00-0278	EA	2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	72.55 8.18 155.62	18.15
22 11 16 00-0279	EA	3", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	100.14 10.76 220.64	23.94
22 11 16 00-0280	EA	4", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	170.92 11.25 455.84	24.99
22 11 16 00-0281	EA	5", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	283.91 11.74 834.57	26.12
22 11 16 00-0282	EA	6", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	305.53 12.28 902.13	27.25
22 11 16 00-0283 Galvanized Malleable Iron Bushing (22 11 16 00-0013)				
22 11 16 00-0284	EA	3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	34.98 7.22	16.02
22 11 16 00-0285	EA	1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	38.60 7.67	17.04
22 11 16 00-0286	EA	1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	39.28 8.08	17.97
22 11 16 00-0287	EA	1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	45.69 8.23	18.32
22 11 16 00-0288	EA	1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	45.40 8.64	19.17
22 11 16 00-0289	EA	1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	46.88 9.08	20.20
22 11 16 00-0290	EA	1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	53.62 8.85	19.68
22 11 16 00-0291	EA	1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	54.98 9.26	20.53
22 11 16 00-0292	EA	1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	54.08 9.70	21.56
22 11 16 00-0293	EA	1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	54.28 10.26	22.83
22 11 16 00-0294	EA	2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	64.53 10.32	22.93
22 11 16 00-0295	EA	2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	63.80 10.73	23.86
22 11 16 00-0296	EA	2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	63.75 11.17	24.80
22 11 16 00-0297	EA	2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	65.62 11.73	26.08
22 11 16 00-0298	EA	2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	64.41 12.35	27.43
22 11 16 00-0299	EA	2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	90.42 14.04	31.19
22 11 16 00-0300	EA	2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	91.90 14.49	32.20
22 11 16 00-0301	EA	2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	93.77 15.05	33.40
22 11 16 00-0302	EA	2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	95.02 15.66	34.85
22 11 16 00-0303	EA	2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	95.04 17.13	38.09
22 11 16 00-0304	EA	3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	115.14 17.27	38.34
22 11 16 00-0305	EA	3" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	116.61 17.71	39.37
22 11 16 00-0306	EA	3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	118.50 18.28	40.65
22 11 16 00-0307	EA	3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	119.42 18.89	42.01
22 11 16 00-0308	EA	3" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	119.05 20.36	45.25
22 11 16 00-0309	EA	3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	133.08 23.68	52.65
22 11 16 00-0310	EA	4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	179.55 17.66	39.22
22 11 16 00-0311	EA	4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	180.95 18.08	40.18
22 11 16 00-0312	EA	4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	182.71 18.61	41.39
22 11 16 00-0313	EA	4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	184.65 19.19	42.68
22 11 16 00-0314	EA	4" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	175.06 20.58	45.73



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0315	EA		4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	199.69	52.72
			For Work In Restricted Working Space, Add	23.71	
22 11 16 00-0316	EA		4" x 3", 150 LB, Galvanized Malleable Iron Bushing.....	201.88	59.47
			For Work In Restricted Working Space, Add	26.76	
22 11 16 00-0317 Galvanized Malleable Iron Floor Flange (22 11 16 00-0013)					
22 11 16 00-0318	EA		1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	63.30	31.14
22 11 16 00-0319	EA		3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	69.02	34.09
22 11 16 00-0320	EA		1", 150 LB, Galvanized Malleable Iron Floor Flange.....	81.02	38.51
22 11 16 00-0321	EA		1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	84.65	39.87
22 11 16 00-0322	EA		1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	92.16	43.37
22 11 16 00-0323	EA		2", 150 LB, Galvanized Malleable Iron Floor Flange.....	103.25	45.25
22 11 16 00-0324 Galvanized Cast Iron Flanges (22 11 16 00-0013)					
22 11 16 00-0325	EA		3/4", 125 LB, Galvanized Cast Iron Flange.....	190.71	34.09
			For Work In Restricted Working Space, Add	15.34	
22 11 16 00-0326	EA		1", 125 LB, Galvanized Cast Iron Flange.....	165.85	38.51
			For Work In Restricted Working Space, Add	17.33	
22 11 16 00-0327	EA		1-1/4", 125 LB, Galvanized Cast Iron Flange.....	116.92	39.87
			For Work In Restricted Working Space, Add	17.94	
22 11 16 00-0328	EA		1-1/2", 125 LB, Galvanized Cast Iron Flange.....	191.99	43.37
			For Work In Restricted Working Space, Add	19.51	
22 11 16 00-0329	EA		2", 125 LB, Galvanized Cast Iron Flange.....	179.52	45.25
			For Work In Restricted Working Space, Add	20.36	
22 11 16 00-0330	EA		2-1/2", 125 LB, Galvanized Cast Iron Flange.....	209.12	52.40
			For Work In Restricted Working Space, Add	23.56	
22 11 16 00-0331	EA		3", 125 LB, Galvanized Cast Iron Flange.....	452.32	66.46
			For Work In Restricted Working Space, Add	29.89	
22 11 16 00-0332	EA		4", 125 LB, Galvanized Cast Iron Flange.....	344.72	85.75
			For Work In Restricted Working Space, Add	38.57	
22 11 16 00-0333	EA		5", 125 LB, Galvanized Cast Iron Flange.....	492.40	102.07
			For Work In Restricted Working Space, Add	45.91	
22 11 16 00-0334	EA		6", 125 LB, Galvanized Cast Iron Flange.....	538.53	117.26
			For Work In Restricted Working Space, Add	52.74	
22 11 16 00-0335 Cut And Thread Existing In-Place Galvanized Steel Pipe (22 11 16 00-0013)					
			Note: For use when connecting pipe to an existing in-place system.		
22 11 16 00-0336	EA		1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	27.77	
			For Work In Restricted Working Space, Add	8.33	
22 11 16 00-0337	EA		3/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	30.55	
			For Work In Restricted Working Space, Add	9.17	
22 11 16 00-0338	EA		1", Cut And Thread Existing In Place Galvanized Steel Pipe.....	33.33	
			For Work In Restricted Working Space, Add	10.00	
22 11 16 00-0339	EA		1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	36.10	
			For Work In Restricted Working Space, Add	10.83	
22 11 16 00-0340	EA		1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	37.95	
			For Work In Restricted Working Space, Add	11.39	
22 11 16 00-0341	EA		2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	39.81	
			For Work In Restricted Working Space, Add	11.94	
22 11 16 00-0342	EA		2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	41.66	
			For Work In Restricted Working Space, Add	12.50	
22 11 16 00-0343	EA		3", Cut And Thread Existing In Place Galvanized Steel Pipe.....	43.51	
			For Work In Restricted Working Space, Add	13.05	
22 11 16 00-0344	EA		4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	45.36	
			For Work In Restricted Working Space, Add	13.61	
22 11 16 00-0345 Copper Pipe And Fittings (22 11 16)					
			Note: Excludes hangers. See CSI section 22 11 16 00-0876 for pipe with fittings assembly.		
22 11 16 00-0346 Copper Tube/Pipe (22 11 16 00-0345)					
			Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0347 Hard Drawn Type L Copper Tube/Pipe (22 11 16 00-0346)					
22 11 16 00-0348	LF		1/4" Hard Drawn Type L Copper Tube/Pipe.....	3.89	2.08
			For <20, Add	0.08	
			For >150, Deduct	-0.15	
			For Work In Restricted Working Space, Add	0.94	
			For Medical/Oxygen Service Tubing, Add	0.06	
22 11 16 00-0349	LF		3/8" Hard Drawn Type L Copper Tube/Pipe.....	4.38	2.16
			For <20, Add	0.11	
			For >150, Deduct	-0.23	
			For Work In Restricted Working Space, Add	0.98	
			For Medical/Oxygen Service Tubing, Add	0.09	
22 11 16 00-0350	LF		1/2" Hard Drawn Type L Copper Tube/Pipe.....	4.73	2.26
			For <20, Add	0.13	
			For >150, Deduct	-0.27	
			For Work In Restricted Working Space, Add	1.02	
			For Medical/Oxygen Service Tubing, Add	0.11	

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22 11 16 00-0351	LF		3/4" Hard Drawn Type L Copper Tube/Pipe.....	5.77	2.39
			For <20, Add	0.22	
			For >150, Deduct	-0.44	
			For Work In Restricted Working Space, Add	1.08	
			For Medical/Oxygen Service Tubing, Add	0.17	
22 11 16 00-0352	LF		1" Hard Drawn Type L Copper Tube/Pipe.....	7.20	2.70
			For <20, Add	0.32	
			For >150, Deduct	-0.63	
			For Work In Restricted Working Space, Add	1.21	
			For Medical/Oxygen Service Tubing, Add	0.25	
22 11 16 00-0353	LF		1-1/4" Hard Drawn Type L Copper Tube/Pipe	10.36	4.00
			For <20, Add	0.44	
			For >150, Deduct	-0.87	
			For Work In Restricted Working Space, Add	1.80	
			For Medical/Oxygen Service Tubing, Add	0.35	
22 11 16 00-0354	LF		1-1/2" Hard Drawn Type L Copper Tube/Pipe	12.30	4.47
			For <20, Add	0.56	
			For >150, Deduct	-1.12	
			For Work In Restricted Working Space, Add	2.01	
			For Medical/Oxygen Service Tubing, Add	0.45	
22 11 16 00-0355	LF		2" Hard Drawn Type L Copper Tube/Pipe.....	17.14	5.51
			For <20, Add	0.89	
			For >150, Deduct	-1.77	
			For Work In Restricted Working Space, Add	2.48	
			For Medical/Oxygen Service Tubing, Add	0.71	
22 11 16 00-0356	LF		2-1/2" Hard Drawn Type L Copper Tube/Pipe	32.27	6.48
			For <20, Add	1.28	
			For >150, Deduct	-2.56	
			For Work In Restricted Working Space, Add	5.84	
			For Medical/Oxygen Service Tubing, Add	1.02	
22 11 16 00-0357	LF		3" Hard Drawn Type L Copper Tube/Pipe.....	39.99	7.64
			For <20, Add	1.71	
			For >150, Deduct	-3.42	
			For Work In Restricted Working Space, Add	6.87	
			For Medical/Oxygen Service Tubing, Add	1.37	
22 11 16 00-0358	LF		4" Hard Drawn Type L Copper Tube/Pipe.....	56.29	8.62
			For <20, Add	3.04	
			For >150, Deduct	-6.09	
			For Work In Restricted Working Space, Add	7.76	
			For Medical/Oxygen Service Tubing, Add	2.44	
22 11 16 00-0359	LF		5" Hard Drawn Type L Copper Tube/Pipe.....	83.47	9.90
			For <20, Add	5.38	
			For >150, Deduct	-10.75	
			For Work In Restricted Working Space, Add	8.91	
			For Medical/Oxygen Service Tubing, Add	4.30	
22 11 16 00-0360	LF		6" Hard Drawn Type L Copper Tube/Pipe.....	116.75	15.35
			For <20, Add	7.07	
			For >150, Deduct	-14.15	
			For Work In Restricted Working Space, Add	13.80	
			For Medical/Oxygen Service Tubing, Add	5.66	
22 11 16 00-0361	LF		8" Hard Drawn Type L Copper Tube/Pipe.....	184.45	17.06
			For <20, Add	13.33	
			For >150, Deduct	-26.66	
			For Work In Restricted Working Space, Add	15.34	
			For Medical/Oxygen Service Tubing, Add	10.66	
22 11 16 00-0362			Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0346)		
22 11 16 00-0363	LF		1/4" Hard Drawn Type K Copper Tube/Pipe	4.22	2.24
			For <20, Add	0.09	
			For >150, Deduct	-0.17	
			For Work In Restricted Working Space, Add	1.01	
			For Medical/Oxygen Service Tubing, Add	0.07	
22 11 16 00-0364	LF		3/8" Hard Drawn Type K Copper Tube/Pipe	5.39	2.33
			For <20, Add	0.16	
			For >150, Deduct	-0.31	
			For Work In Restricted Working Space, Add	1.15	
			For Medical/Oxygen Service Tubing, Add	0.12	
22 11 16 00-0365	LF		1/2" Hard Drawn Type K Copper Tube/Pipe	5.57	2.42
			For <20, Add	0.18	
			For >150, Deduct	-0.37	
			For Work In Restricted Working Space, Add	1.12	
			For Medical/Oxygen Service Tubing, Add	0.15	
22 11 16 00-0366	LF		3/4" Hard Drawn Type K Copper Tube/Pipe	7.63	2.58
			For <20, Add	0.33	
			For >150, Deduct	-0.66	
			For Work In Restricted Working Space, Add	1.30	
			For Medical/Oxygen Service Tubing, Add	0.26	
22 11 16 00-0367	LF		1" Hard Drawn Type K Copper Tube/Pipe	8.99	2.90
			For <20, Add	0.44	
			For >150, Deduct	-0.88	
			For Work In Restricted Working Space, Add	1.38	
			For Medical/Oxygen Service Tubing, Add	0.35	



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22 11 16 00-0368	LF	1-1/4" Hard Drawn Type K Copper Tube/Pipe.....	11.99	4.31
		For <20, Add	0.55	
		For >150, Deduct	-1.09	
		For Work In Restricted Working Space, Add	1.96	
		For Medical/Oxygen Service Tubing, Add	0.44	
22 11 16 00-0369	LF	1-1/2" Hard Drawn Type K Copper Tube/Pipe.....	14.32	4.81
		For <20, Add	0.70	
		For >150, Deduct	-1.40	
		For Work In Restricted Working Space, Add	2.20	
		For Medical/Oxygen Service Tubing, Add	0.56	
22 11 16 00-0370	LF	2" Hard Drawn Type K Copper Tube/Pipe.....	19.73	5.94
		For <20, Add	1.07	
		For >150, Deduct	-2.15	
		For Work In Restricted Working Space, Add	2.70	
		For Medical/Oxygen Service Tubing, Add	0.86	
22 11 16 00-0371	LF	2-1/2" Hard Drawn Type K Copper Tube/Pipe.....	35.55	6.97
		For <20, Add	1.60	
		For >150, Deduct	-3.20	
		For Work In Restricted Working Space, Add	5.87	
		For Medical/Oxygen Service Tubing, Add	1.28	
22 11 16 00-0372	LF	3" Hard Drawn Type K Copper Tube/Pipe.....	47.07	8.21
		For <20, Add	2.19	
		For >150, Deduct	-4.37	
		For Work In Restricted Working Space, Add	7.56	
		For Medical/Oxygen Service Tubing, Add	1.75	
22 11 16 00-0373	LF	4" Hard Drawn Type K Copper Tube/Pipe.....	67.53	9.27
		For <20, Add	3.90	
		For >150, Deduct	-7.79	
		For Work In Restricted Working Space, Add	8.57	
		For Medical/Oxygen Service Tubing, Add	3.12	
22 11 16 00-0374	LF	5" Hard Drawn Type K Copper Tube/Pipe.....	105.11	10.64
		For <20, Add	7.14	
		For >150, Deduct	-14.28	
		For Work In Restricted Working Space, Add	10.11	
		For Medical/Oxygen Service Tubing, Add	5.71	
22 11 16 00-0375	LF	6" Hard Drawn Type K Copper Tube/Pipe.....	156.79	16.49
		For <20, Add	10.24	
		For >150, Deduct	-20.49	
		For Work In Restricted Working Space, Add	16.31	
		For Medical/Oxygen Service Tubing, Add	8.20	
22 11 16 00-0376	LF	8" Hard Drawn Type K Copper Tube/Pipe.....	251.72	18.34
		For <20, Add	19.18	
		For >150, Deduct	-38.37	
		For Work In Restricted Working Space, Add	17.97	
		For Medical/Oxygen Service Tubing, Add	15.35	
22 11 16 00-0377		Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0346)		
22 11 16 00-0378	LF	3/8" Hard Drawn Type M Copper Tube/Pipe.....	3.70	1.95
		For <20, Add	0.09	
		For >150, Deduct	-0.18	
		For Work In Restricted Working Space, Add	0.85	
22 11 16 00-0379	LF	1/2" Hard Drawn Type M Copper Tube/Pipe.....	3.90	2.03
		For <20, Add	0.10	
		For >150, Deduct	-0.20	
		For Work In Restricted Working Space, Add	0.87	
22 11 16 00-0380	LF	3/4" Hard Drawn Type M Copper Tube/Pipe.....	4.70	2.15
		For <20, Add	0.16	
		For >150, Deduct	-0.32	
		For Work In Restricted Working Space, Add	0.93	
22 11 16 00-0381	LF	1" Hard Drawn Type M Copper Tube/Pipe.....	5.92	2.42
		For <20, Add	0.25	
		For >150, Deduct	-0.49	
		For Work In Restricted Working Space, Add	1.04	
22 11 16 00-0382	LF	1-1/4" Hard Drawn Type M Copper Tube/Pipe.....	8.91	3.61
		For <20, Add	0.36	
		For >150, Deduct	-0.72	
		For Work In Restricted Working Space, Add	1.60	
22 11 16 00-0383	LF	1-1/2" Hard Drawn Type M Copper Tube/Pipe.....	11.07	4.02
		For <20, Add	0.50	
		For >150, Deduct	-0.99	
		For Work In Restricted Working Space, Add	1.84	
22 11 16 00-0384	LF	2" Hard Drawn Type M Copper Tube/Pipe.....	15.38	4.96
		For <20, Add	0.78	
		For >150, Deduct	-1.56	
		For Work In Restricted Working Space, Add	2.27	
22 11 16 00-0385	LF	2-1/2" Hard Drawn Type M Copper Tube/Pipe.....	29.73	5.84
		For <20, Add	1.13	
		For >150, Deduct	-2.26	
		For Work In Restricted Working Space, Add	5.52	
22 11 16 00-0386	LF	3" Hard Drawn Type M Copper Tube/Pipe.....	35.72	6.87
		For <20, Add	1.51	
		For >150, Deduct	-3.01	
		For Work In Restricted Working Space, Add	6.20	

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22 11 16 00-0387	LF		4" Hard Drawn Type M Copper Tube/Pipe.....	52.30	7.76
			For <20, Add	2.82	
			For >150, Deduct	-5.64	
			For Work In Restricted Working Space, Add	7.24	
22 11 16 00-0388	LF		5" Hard Drawn Type M Copper Tube/Pipe.....	82.56	8.92
			For <20, Add	5.47	
			For >150, Deduct	-10.94	
			For Work In Restricted Working Space, Add	8.36	
22 11 16 00-0389	LF		6" Hard Drawn Type M Copper Tube/Pipe.....	116.21	13.81
			For <20, Add	7.31	
			For >150, Deduct	-14.62	
			For Work In Restricted Working Space, Add	12.94	
22 11 16 00-0390	LF		8" Hard Drawn Type M Copper Tube/Pipe.....	185.94	15.36
			For <20, Add	13.85	
			For >150, Deduct	-27.70	
			For Work In Restricted Working Space, Add	14.23	
22 11 16 00-0391 Soft Drawn Type L Copper Tube (22 11 16 00-0346)					
22 11 16 00-0392	LF		1/4" Soft Drawn Type L Copper Tube.....	4.11	2.08
			For <20, Add	0.10	
			For >150, Deduct	-0.20	
			For Work In Restricted Working Space, Add	0.94	
22 11 16 00-0393	LF		3/8" Soft Drawn Type L Copper Tube.....	4.79	2.16
			For <20, Add	0.15	
			For >150, Deduct	-0.31	
			For Work In Restricted Working Space, Add	0.98	
22 11 16 00-0394	LF		1/2" Soft Drawn Type L Copper Tube.....	5.46	2.26
			For <20, Add	0.21	
			For >150, Deduct	-0.41	
			For Work In Restricted Working Space, Add	1.02	
22 11 16 00-0395	LF		5/8" Soft Drawn Type L Copper Tube.....	6.15	2.33
			For <20, Add	0.27	
			For >150, Deduct	-0.53	
			For Work In Restricted Working Space, Add	1.05	
22 11 16 00-0396	LF		3/4" Soft Drawn Type L Copper Tube.....	6.76	2.39
			For <20, Add	0.32	
			For >150, Deduct	-0.63	
			For Work In Restricted Working Space, Add	1.08	
22 11 16 00-0397	LF		1" Soft Drawn Type L Copper Tube.....	8.43	2.70
			For <20, Add	0.44	
			For >150, Deduct	-0.88	
			For Work In Restricted Working Space, Add	1.21	
22 11 16 00-0398	LF		1-1/4" Soft Drawn Type L Copper Tube.....	11.79	4.00
			For <20, Add	0.58	
			For >150, Deduct	-1.16	
			For Work In Restricted Working Space, Add	1.80	
22 11 16 00-0399	LF		1-1/2" Soft Drawn Type L Copper Tube.....	14.54	4.47
			For <20, Add	0.78	
			For >150, Deduct	-1.57	
			For Work In Restricted Working Space, Add	2.01	
22 11 16 00-0400	LF		2" Soft Drawn Type L Copper Tube.....	20.73	5.51
			For <20, Add	1.25	
			For >150, Deduct	-2.49	
			For Work In Restricted Working Space, Add	2.48	
22 11 16 00-0401 Soft Drawn Type K Copper Tube (22 11 16 00-0346)					
22 11 16 00-0402	LF		1/4" Soft Drawn Type K Copper Tube.....	4.21	2.08
			For <20, Add	0.11	
			For >150, Deduct	-0.22	
			For Work In Restricted Working Space, Add	0.94	
22 11 16 00-0403	LF		3/8" Soft Drawn Type K Copper Tube.....	5.12	2.16
			For <20, Add	0.19	
			For >150, Deduct	-0.37	
			For Work In Restricted Working Space, Add	0.98	
22 11 16 00-0404	LF		1/2" Soft Drawn Type K Copper Tube.....	5.73	2.26
			For <20, Add	0.23	
			For >150, Deduct	-0.47	
			For Work In Restricted Working Space, Add	1.02	
22 11 16 00-0405	LF		5/8" Soft Drawn Type K Copper Tube.....	6.28	2.33
			For <20, Add	0.28	
			For >150, Deduct	-0.56	
			For Work In Restricted Working Space, Add	1.05	
22 11 16 00-0406	LF		3/4" Soft Drawn Type K Copper Tube.....	7.92	2.39
			For <20, Add	0.43	
			For >150, Deduct	-0.87	
			For Work In Restricted Working Space, Add	1.08	
22 11 16 00-0407	LF		1" Soft Drawn Type K Copper Tube.....	9.78	2.70
			For <20, Add	0.57	
			For >150, Deduct	-1.15	
			For Work In Restricted Working Space, Add	1.21	



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	Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0408	LF	1-1/4"	Soft Drawn Type K Copper Tube For <20, Add For >150, Deduct For Work In Restricted Working Space, Add 22 11 16 00-0409 LF 1-1/2" Soft Drawn Type K Copper Tube For <20, Add For >150, Deduct For Work In Restricted Working Space, Add 22 11 16 00-0410 LF 2" Soft Drawn Type K Copper Tube For <20, Add For >150, Deduct For Work In Restricted Working Space, Add 22 11 16 00-0411 LF 2-1/2" Soft Drawn Type K Copper Tube For <20, Add For >150, Deduct For Work In Restricted Working Space, Add 22 11 16 00-0412 LF 3" Soft Drawn Type K Copper Tube For <20, Add For >150, Deduct For Work In Restricted Working Space, Add	12.78 0.68 -1.35 1.80 16.11 0.94 -1.88 2.01 22.90 1.46 -2.93 2.48 31.86 2.19 -4.39 2.98 42.23 3.05 -6.10 3.51	4.00 4.47 5.51 6.62 7.81
22 11 16 00-0413			Copper And Brass Fittings (22 11 16 00-0345) Note: All fittings are based on 95/5 solder.		
22 11 16 00-0414			90 Degree Copper Elbows (22 11 16 00-0413)		
22 11 16 00-0415	EA	1/4"	90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add 22 11 16 00-0416 EA 3/8" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add 22 11 16 00-0417 EA 1/2" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add 22 11 16 00-0418 EA 3/4" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add 22 11 16 00-0419 EA 1" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add 22 11 16 00-0420 EA 1-1/4" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add 22 11 16 00-0421 EA 1-1/2" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add 22 11 16 00-0422 EA 2" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add 22 11 16 00-0423 EA 2-1/2" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add 22 11 16 00-0424 EA 3" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	20.70 -1.96 2.78 0.88 5.55 2.89 24.52 -2.34 3.33 0.92 6.66 3.45 31.30 -3.09 4.58 0.30 9.17 4.62 39.64 -3.88 5.69 0.68 11.39 5.78 49.49 -4.74 6.80 1.65 13.61 7.01 55.23 -5.21 7.36 2.47 14.72 7.67 63.34 -5.85 8.05 3.86 16.11 8.54 77.76 -6.90 9.03 7.04 18.05 9.91 95.84 -7.86 9.20 18.41 10.93 121.91 -9.76 10.99 21.98 13.42	12.35 14.81 20.36 25.36 30.27 32.76 35.82 40.18 40.90 48.91

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0425	EA	4" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	221.97 -16.30 15.59 31.19 21.49	69.36
22 11 16 00-0426	EA	5" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	636.70 -38.95 21.34 42.69 46.06	94.92
22 11 16 00-0427	EA	6" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	866.14 -53.66 31.06 62.12 64.01	138.12
22 11 16 00-0428	EA	8" 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	2,714.35 -149.52 41.41 82.82 163.32	184.13
22 11 16 00-0429 90 Degree Brass Elbows (22 11 16 00-0413)				
22 11 16 00-0430	EA	1/2" Drop Ear 90 Degree Brass Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	35.26 -3.29 4.58 9.17 4.82	20.36
22 11 16 00-0431	EA	3/4" Drop Ear 90 Degree Brass Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	51.68 -4.48 5.69 11.39 6.38	25.36
22 11 16 00-0432	EA	1/2" Flanged Sink 90 Degree Brass Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	39.14 -3.48 4.58 9.17 5.01	20.36
22 11 16 00-0433	EA	3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	29.25 -2.57 3.33 6.66 3.68	14.81
22 11 16 00-0434	EA	1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	35.59 -3.31 4.58 9.17 4.83	20.36
22 11 16 00-0435	EA	3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	46.83 -4.24 5.69 11.39 6.14	25.36
22 11 16 00-0436	EA	1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	73.70 -5.95 6.80 13.61 8.22	30.27
22 11 16 00-0437 Reducing 90 Degree Copper Elbows (22 11 16 00-0413)				
22 11 16 00-0438	EA	1/2" Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	36.64 -3.36 4.58 9.17 4.89	20.36
22 11 16 00-0439	EA	3/4" Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	42.26 -4.01 5.69 11.39 5.91	25.36
22 11 16 00-0440	EA	1" Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	53.28 -4.93 6.80 13.61 7.20	30.27
22 11 16 00-0441	EA	1-1/4" Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	69.23 -5.91 7.36 14.72 8.37	32.76
22 11 16 00-0442	EA	1-1/2" Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	80.20 -6.69 8.05 16.11 9.38	35.82



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0443	EA		2" Reducing 90 Degree Copper Elbow	95.85	40.18
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.80	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.03	
			For Work In Restricted Working Space, Add	18.05	
			For Silver Solder Instead Of 95/5 Solder, Add	10.81	
22 11 16 00-0444 45 Degree Copper Elbows (22 11 16 00-0413)					
22 11 16 00-0445	EA		1/4" 45 Degree Copper Elbow	22.59	12.35
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.06	
			For Brazed Fittings Instead Of 95/5 Solder, Add	2.78	
			For Street Fitting, Add	1.63	
			For Work In Restricted Working Space, Add	5.55	
			For Silver Solder Instead Of 95/5 Solder, Add	2.98	
22 11 16 00-0446	EA		3/8" 45 Degree Copper Elbow	25.71	14.81
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.40	
			For Brazed Fittings Instead Of 95/5 Solder, Add	3.33	
			For Street Fitting, Add	1.40	
			For Work In Restricted Working Space, Add	6.66	
			For Silver Solder Instead Of 95/5 Solder, Add	3.51	
22 11 16 00-0447	EA		1/2" 45 Degree Copper Elbow	31.93	20.36
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.12	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.58	
			For Street Fitting, Add	0.55	
			For Work In Restricted Working Space, Add	9.17	
			For Silver Solder Instead Of 95/5 Solder, Add	4.65	
22 11 16 00-0448	EA		3/4" 45 Degree Copper Elbow	40.30	25.36
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.69	
			For Street Fitting, Add	0.94	
			For Work In Restricted Working Space, Add	11.39	
			For Silver Solder Instead Of 95/5 Solder, Add	5.81	
22 11 16 00-0449	EA		1" 45 Degree Copper Elbow	51.24	30.27
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.83	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.80	
			For Street Fitting, Add	2.35	
			For Work In Restricted Working Space, Add	13.61	
			For Silver Solder Instead Of 95/5 Solder, Add	7.10	
22 11 16 00-0450	EA		1-1/4" 45 Degree Copper Elbow	57.02	32.76
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.30	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.36	
			For Street Fitting, Add	3.18	
			For Work In Restricted Working Space, Add	14.72	
			For Silver Solder Instead Of 95/5 Solder, Add	7.76	
22 11 16 00-0451	EA		1-1/2" 45 Degree Copper Elbow	63.46	35.82
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.86	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.05	
			For Street Fitting, Add	3.91	
			For Work In Restricted Working Space, Add	16.11	
			For Silver Solder Instead Of 95/5 Solder, Add	8.54	
22 11 16 00-0452	EA		2" 45 Degree Copper Elbow	76.47	40.18
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.83	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.03	
			For Work In Restricted Working Space, Add	18.05	
			For Silver Solder Instead Of 95/5 Solder, Add	9.84	
22 11 16 00-0453	EA		2-1/2" 45 Degree Copper Elbow	95.42	40.90
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.84	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.20	
			For Work In Restricted Working Space, Add	18.41	
			For Silver Solder Instead Of 95/5 Solder, Add	10.91	
22 11 16 00-0454	EA		3" 45 Degree Copper Elbow	123.83	48.91
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.86	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.99	
			For Work In Restricted Working Space, Add	21.98	
			For Silver Solder Instead Of 95/5 Solder, Add	13.52	
22 11 16 00-0455	EA		4" 45 Degree Copper Elbow	211.76	69.36
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.79	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.59	
			For Work In Restricted Working Space, Add	31.19	
			For Silver Solder Instead Of 95/5 Solder, Add	20.98	
22 11 16 00-0456	EA		5" 45 Degree Copper Elbow	559.80	94.92
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-35.10	
			For Brazed Fittings Instead Of 95/5 Solder, Add	21.34	
			For Work In Restricted Working Space, Add	42.69	
			For Silver Solder Instead Of 95/5 Solder, Add	42.22	
22 11 16 00-0457	EA		6" 45 Degree Copper Elbow	865.01	138.12
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-53.60	
			For Brazed Fittings Instead Of 95/5 Solder, Add	31.06	
			For Work In Restricted Working Space, Add	62.12	
			For Silver Solder Instead Of 95/5 Solder, Add	63.96	
22 11 16 00-0458	EA		8" 45 Degree Copper Elbow	2,511.79	184.13
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-139.39	
			For Brazed Fittings Instead Of 95/5 Solder, Add	41.41	
			For Work In Restricted Working Space, Add	82.82	
			For Silver Solder Instead Of 95/5 Solder, Add	153.20	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 11 16 00-0459 Straight Copper And Brass Tees (22 11 16 00-0413)					
22 11 16 00-0460	EA 1/4" Straight Copper Tee	32.35		18.51	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.01			
	For Brazed Fittings Instead Of 95/5 Solder, Add	4.17			
	For Work In Restricted Working Space, Add	8.33			
	For Silver Solder Instead Of 95/5 Solder, Add	4.39			
22 11 16 00-0461	EA 3/8" Straight Copper Tee	37.02		22.21	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.52			
	For Brazed Fittings Instead Of 95/5 Solder, Add	5.00			
	For Work In Restricted Working Space, Add	10.00			
	For Silver Solder Instead Of 95/5 Solder, Add	5.18			
22 11 16 00-0462	EA 1/2" Straight Copper Tee	47.57		30.91	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.69			
	For Brazed Fittings Instead Of 95/5 Solder, Add	6.94			
	For Work In Restricted Working Space, Add	13.88			
	For Silver Solder Instead Of 95/5 Solder, Add	7.01			
22 11 16 00-0463	EA 3/4" Straight Copper Tee	60.47		38.33	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.89			
	For Brazed Fittings Instead Of 95/5 Solder, Add	8.61			
	For Work In Restricted Working Space, Add	17.22			
	For Silver Solder Instead Of 95/5 Solder, Add	8.76			
22 11 16 00-0464	EA 1" Straight Copper Tee	77.77		45.73	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.31			
	For Brazed Fittings Instead Of 95/5 Solder, Add	10.28			
	For Work In Restricted Working Space, Add	20.55			
	For Silver Solder Instead Of 95/5 Solder, Add	10.74			
22 11 16 00-0465	EA 1-1/4" Straight Copper Tee	86.98		49.43	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.05			
	For Brazed Fittings Instead Of 95/5 Solder, Add	11.11			
	For Work In Restricted Working Space, Add	22.22			
	For Silver Solder Instead Of 95/5 Solder, Add	11.76			
22 11 16 00-0466	EA 1-1/2" Straight Copper Tee	100.09		53.69	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.03			
	For Brazed Fittings Instead Of 95/5 Solder, Add	12.08			
	For Work In Restricted Working Space, Add	24.16			
	For Silver Solder Instead Of 95/5 Solder, Add	13.06			
22 11 16 00-0467	EA 2" Straight Copper Tee	121.79		60.54	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.63			
	For Brazed Fittings Instead Of 95/5 Solder, Add	13.61			
	For Work In Restricted Working Space, Add	27.22			
	For Silver Solder Instead Of 95/5 Solder, Add	15.16			
22 11 16 00-0468	EA 2-1/2" Straight Copper Tee	153.50		61.35	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.28			
	For Brazed Fittings Instead Of 95/5 Solder, Add	13.80			
	For Work In Restricted Working Space, Add	27.61			
	For Silver Solder Instead Of 95/5 Solder, Add	16.88			
22 11 16 00-0469	EA 3" Straight Copper Tee	204.69		73.87	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.77			
	For Brazed Fittings Instead Of 95/5 Solder, Add	16.61			
	For Work In Restricted Working Space, Add	33.23			
	For Silver Solder Instead Of 95/5 Solder, Add	21.31			
22 11 16 00-0470	EA 4" Straight Copper Tee	382.39		103.44	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.87			
	For Brazed Fittings Instead Of 95/5 Solder, Add	23.26			
	For Work In Restricted Working Space, Add	46.52			
	For Silver Solder Instead Of 95/5 Solder, Add	34.63			
22 11 16 00-0471	EA 5" Straight Copper Tee	955.28		141.53	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-58.37			
	For Brazed Fittings Instead Of 95/5 Solder, Add	31.83			
	For Work In Restricted Working Space, Add	63.65			
	For Silver Solder Instead Of 95/5 Solder, Add	68.98			
22 11 16 00-0472	EA 6" Straight Copper Tee	1,326.82		207.48	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-81.89			
	For Brazed Fittings Instead Of 95/5 Solder, Add	46.65			
	For Work In Restricted Working Space, Add	93.30			
	For Silver Solder Instead Of 95/5 Solder, Add	97.44			
22 11 16 00-0473	EA 8" Straight Copper Tee	4,332.60		276.23	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-237.34			
	For Brazed Fittings Instead Of 95/5 Solder, Add	62.12			
	For Work In Restricted Working Space, Add	124.23			
	For Silver Solder Instead Of 95/5 Solder, Add	258.04			
22 11 16 00-0474	EA 1/2" Cast Bronze Drop Ear Tee	54.22		30.91	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.03			
	For Brazed Fittings Instead Of 95/5 Solder, Add	6.94			
	For Work In Restricted Working Space, Add	13.88			
	For Silver Solder Instead Of 95/5 Solder, Add	7.34			
22 11 16 00-0475 Reducing Copper Tees (22 11 16 00-0413)					
22 11 16 00-0476	EA 3/8" Reducing Copper Tee	36.92		19.72	
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.33			
	For Brazed Fittings Instead Of 95/5 Solder, Add	4.44			
	For Work In Restricted Working Space, Add	8.89			
	For Silver Solder Instead Of 95/5 Solder, Add	4.81			



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0477	EA	1/2"	Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	48.08 -4.49 6.25 12.50 6.57	27.77
22 11 16 00-0478	EA	3/4"	Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	56.96 -5.53 8.05 16.11 8.22	35.82
22 11 16 00-0479	EA	1"	Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	75.19 -7.00 9.72 19.44 10.24	43.23
22 11 16 00-0480	EA	1-1/4"	Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	86.13 -7.82 10.55 21.11 11.34	46.93
22 11 16 00-0481	EA	1-1/2"	Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	99.14 -8.80 11.53 23.05 12.64	51.28
22 11 16 00-0482	EA	2"	Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	118.33 -10.22 12.91 25.83 14.53	57.39
22 11 16 00-0483	EA	2-1/2"	Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	155.96 -12.23 13.29 26.58 16.66	59.14
22 11 16 00-0484	EA	3"	Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	212.85 -15.76 15.34 30.68 20.87	68.16
22 11 16 00-0485	EA	4"	Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	358.92 -24.25 18.92 37.83 30.56	84.09
22 11 16 00-0486	Copper Couplings (22 11 16 00-0413)				
22 11 16 00-0487	EA	1/4"	Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	18.95 -1.87 2.78 5.55 2.80	12.35
22 11 16 00-0488	EA	3/8"	Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	22.79 -2.25 3.33 6.66 3.36	14.81
22 11 16 00-0489	EA	1/2"	Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	31.03 -3.08 4.58 9.17 4.61	20.36
22 11 16 00-0490	EA	3/4"	Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	38.93 -3.84 5.69 11.39 5.74	25.36
22 11 16 00-0491	EA	1"	Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	47.30 -4.63 6.80 13.61 6.90	30.27
22 11 16 00-0492	EA	1-1/4"	Copper Coupling For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	52.48 -5.08 7.36 14.72 7.53	32.76
22 11 16 00-0493	EA	1-1/2"	Copper Coupling For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	58.21 -5.60 8.05 16.11 8.28	35.82

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0494	EA	2" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	67.69 -6.39 9.03 18.05 9.40	39.81
22 11 16 00-0495	EA	2-1/2" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	73.40 -6.57 8.69 17.38 9.46	38.69
22 11 16 00-0496	EA	3" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	90.92 -8.04 10.48 20.96 11.53	46.87
22 11 16 00-0497	EA	4" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	140.09 -11.69 14.06 28.12 16.38	63.05
22 11 16 00-0498	EA	5" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	224.45 -17.61 19.17 38.34 24.00	115.03
22 11 16 00-0499	EA	6" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	347.15 -26.73 28.12 56.24 36.10	124.99
22 11 16 00-0500	EA	8" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	766.47 -50.76 37.32 74.64 63.20	165.72
22 11 16 00-0501 Reducing Copper Couplings (22 11 16 00-0413)				
22 11 16 00-0502	EA	3/8" Reducing Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	19.47 -1.90 2.78 5.55 2.82	12.31
22 11 16 00-0503	EA	1/2" Reducing Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	27.39 -2.69 3.96 7.92 4.01	17.58
22 11 16 00-0504	EA	3/4" Reducing Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	35.98 -3.51 5.14 10.28 5.22	22.87
22 11 16 00-0505	EA	1" Reducing Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	44.79 -4.32 6.25 12.50 6.41	27.77
22 11 16 00-0506	EA	1-1/4" Reducing Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	51.57 -4.94 7.08 14.16 7.30	31.48
22 11 16 00-0507	EA	1-1/2" Reducing Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	58.58 -5.50 7.71 15.41 8.07	34.25
22 11 16 00-0508	EA	2" Reducing Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	68.08 -6.25 8.54 17.08 9.10	37.95
22 11 16 00-0509	EA	2-1/2" Reducing Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	81.31 -6.98 8.76 17.51 9.90	38.94
22 11 16 00-0510	EA	3" Reducing Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	95.68 -8.15 10.10 20.20 11.52	45.16



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0511	EA		4" Reducing Copper Coupling	144.92	59.14
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.68	
			For Brazed Fittings Instead Of 95/5 Solder, Add	13.29	
			For Work In Restricted Working Space, Add	26.58	
			For Silver Solder Instead Of 95/5 Solder, Add	16.11	
22 11 16 00-0512	EA		5" Reducing Copper Coupling	343.74	82.39
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-23.36	
			For Brazed Fittings Instead Of 95/5 Solder, Add	18.53	
			For Work In Restricted Working Space, Add	37.06	
			For Silver Solder Instead Of 95/5 Solder, Add	29.54	
22 11 16 00-0513	EA		6" Reducing Copper Coupling	507.13	110.76
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-33.66	
			For Brazed Fittings Instead Of 95/5 Solder, Add	24.92	
			For Work In Restricted Working Space, Add	49.85	
			For Silver Solder Instead Of 95/5 Solder, Add	41.97	
22 11 16 00-0514	EA		8" Reducing Copper Coupling	964.84	161.40
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-60.34	
			For Brazed Fittings Instead Of 95/5 Solder, Add	36.30	
			For Work In Restricted Working Space, Add	72.59	
			For Silver Solder Instead Of 95/5 Solder, Add	72.44	
22 11 16 00-0515 Male Copper Adapters (22 11 16 00-0413)					
22 11 16 00-0516	EA		1/4" Male Copper Adapter	26.24	12.03
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.24	
			For Brazed Fittings Instead Of 95/5 Solder, Add	2.78	
			For Work In Restricted Working Space, Add	5.55	
			For Silver Solder Instead Of 95/5 Solder, Add	3.16	
22 11 16 00-0517	EA		3/8" Male Copper Adapter	26.07	14.81
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.41	
			For Brazed Fittings Instead Of 95/5 Solder, Add	3.33	
			For Work In Restricted Working Space, Add	6.66	
			For Silver Solder Instead Of 95/5 Solder, Add	3.52	
22 11 16 00-0518	EA		1/2" Male Copper Adapter	29.33	18.51
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.86	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.17	
			For Work In Restricted Working Space, Add	8.33	
			For Silver Solder Instead Of 95/5 Solder, Add	4.24	
22 11 16 00-0519	EA		3/4" Male Copper Adapter	36.90	23.14
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.56	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.14	
			For Work In Restricted Working Space, Add	10.28	
			For Silver Solder Instead Of 95/5 Solder, Add	5.27	
22 11 16 00-0520	EA		1" Male Copper Adapter	46.54	26.85
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.32	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.97	
			For Work In Restricted Working Space, Add	11.94	
			For Silver Solder Instead Of 95/5 Solder, Add	6.31	
22 11 16 00-0521	EA		1-1/4" Male Copper Adapter	56.07	30.55
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.12	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.94	
			For Work In Restricted Working Space, Add	13.88	
			For Silver Solder Instead Of 95/5 Solder, Add	7.43	
22 11 16 00-0522	EA		1-1/2" Male Copper Adapter	64.22	35.18
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.85	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.91	
			For Work In Restricted Working Space, Add	15.83	
			For Silver Solder Instead Of 95/5 Solder, Add	8.49	
22 11 16 00-0523	EA		2" Male Copper Adapter	86.97	44.90
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.73	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.14	
			For Work In Restricted Working Space, Add	20.27	
			For Silver Solder Instead Of 95/5 Solder, Add	11.11	
22 11 16 00-0524	EA		2-1/2" Male Copper Adapter	148.73	58.32
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.79	
			For Brazed Fittings Instead Of 95/5 Solder, Add	13.05	
			For Work In Restricted Working Space, Add	26.11	
			For Silver Solder Instead Of 95/5 Solder, Add	16.14	
22 11 16 00-0525	EA		3" Male Copper Adapter	197.56	77.75
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.67	
			For Brazed Fittings Instead Of 95/5 Solder, Add	17.38	
			For Work In Restricted Working Space, Add	34.76	
			For Silver Solder Instead Of 95/5 Solder, Add	21.47	
22 11 16 00-0526	EA		4" Male Copper Adapter	294.25	109.06
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-22.89	
			For Brazed Fittings Instead Of 95/5 Solder, Add	24.54	
			For Work In Restricted Working Space, Add	49.08	
			For Silver Solder Instead Of 95/5 Solder, Add	31.07	
22 11 16 00-0527 Female Copper Adapters (22 11 16 00-0413)					
22 11 16 00-0528	EA		1/4" Female Copper Adapter	23.45	12.03
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.10	
			For Brazed Fittings Instead Of 95/5 Solder, Add	2.78	
			For Work In Restricted Working Space, Add	5.55	
			For Silver Solder Instead Of 95/5 Solder, Add	3.02	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0529 EA 3/8" Female Copper Adapter	27.38	14.81
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.48	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.33	
For Work In Restricted Working Space, Add	6.66	
For Silver Solder Instead Of 95/5 Solder, Add	3.59	
22 11 16 00-0530 EA 1/2" Female Copper Adapter	30.27	18.51
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.90	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.17	
For Work In Restricted Working Space, Add	8.33	
For Silver Solder Instead Of 95/5 Solder, Add	4.29	
22 11 16 00-0531 EA 3/4" Female Copper Adapter	37.67	23.14
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.60	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.14	
For Work In Restricted Working Space, Add	10.28	
For Silver Solder Instead Of 95/5 Solder, Add	5.31	
22 11 16 00-0532 EA 1" Female Copper Adapter	47.63	26.85
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.37	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.97	
For Work In Restricted Working Space, Add	11.94	
For Silver Solder Instead Of 95/5 Solder, Add	6.36	
22 11 16 00-0533 EA 1-1/4" Female Copper Adapter	57.74	30.55
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.20	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.94	
For Work In Restricted Working Space, Add	13.88	
For Silver Solder Instead Of 95/5 Solder, Add	7.52	
22 11 16 00-0534 EA 1-1/2" Female Copper Adapter	70.70	35.18
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.17	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.91	
For Work In Restricted Working Space, Add	15.83	
For Silver Solder Instead Of 95/5 Solder, Add	8.81	
22 11 16 00-0535 EA 2" Female Copper Adapter	91.91	44.90
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.97	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.14	
For Work In Restricted Working Space, Add	20.27	
For Silver Solder Instead Of 95/5 Solder, Add	11.35	
22 11 16 00-0536 EA 2-1/2" Female Copper Adapter	167.17	53.68
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.36	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.02	
For Work In Restricted Working Space, Add	24.03	
For Silver Solder Instead Of 95/5 Solder, Add	16.37	
22 11 16 00-0537 EA 3" Female Copper Adapter	262.54	77.75
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-18.92	
For Brazed Fittings Instead Of 95/5 Solder, Add	17.38	
For Work In Restricted Working Space, Add	34.76	
For Silver Solder Instead Of 95/5 Solder, Add	24.71	
22 11 16 00-0538 Wrot Copper, Solder Union (22 11 16 00-0413)		
22 11 16 00-0539 EA 1/4" Wrot Copper, Solder Union	33.14	14.81
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.77	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.33	
For Work In Restricted Working Space, Add	6.66	
For Silver Solder Instead Of 95/5 Solder, Add	3.88	
22 11 16 00-0540 EA 3/8" Wrot Copper, Solder Union	38.11	17.87
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.25	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.03	
For Work In Restricted Working Space, Add	8.06	
For Silver Solder Instead Of 95/5 Solder, Add	4.59	
22 11 16 00-0541 EA 1/2" Wrot Copper, Solder Union	40.29	22.21
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.68	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.00	
For Work In Restricted Working Space, Add	10.00	
For Silver Solder Instead Of 95/5 Solder, Add	5.35	
22 11 16 00-0542 EA 3/4" Wrot Copper, Solder Union	46.51	25.36
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.22	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.69	
For Work In Restricted Working Space, Add	11.39	
For Silver Solder Instead Of 95/5 Solder, Add	6.12	
22 11 16 00-0543 EA 1" Wrot Copper, Solder Union	60.07	30.27
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.27	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.80	
For Work In Restricted Working Space, Add	13.61	
For Silver Solder Instead Of 95/5 Solder, Add	7.54	
22 11 16 00-0544 EA 1-1/4" Wrot Copper, Solder Union	71.29	33.33
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.50	
For Work In Restricted Working Space, Add	15.00	
For Silver Solder Instead Of 95/5 Solder, Add	8.56	
22 11 16 00-0545 EA 1-1/2" Wrot Copper, Solder Union	85.57	37.03
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.33	
For Work In Restricted Working Space, Add	16.66	
For Silver Solder Instead Of 95/5 Solder, Add	9.83	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0546 EA 2" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	117.83 -9.22 10.00 19.99 12.56	44.43
22 11 16 00-0547 EA 2-1/2" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	212.88 -14.31 10.99 21.98 17.97	48.91
22 11 16 00-0548 EA 3" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	465.22 -28.46 15.59 31.19 33.66	69.36
22 11 16 00-0549 Cast Bronze, Solder Union (22 11 16 00-0413)		
22 11 16 00-0550 EA 1/4" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	37.17 -2.97 3.33 6.66 4.08	14.81
22 11 16 00-0551 EA 3/8" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	41.91 -3.44 4.03 8.06 4.78	17.87
22 11 16 00-0552 EA 1/2" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	41.35 -3.73 5.00 10.00 5.40	22.21
22 11 16 00-0553 EA 3/4" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	48.01 -4.30 5.69 11.39 6.20	25.36
22 11 16 00-0554 EA 1" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	62.67 -5.40 6.80 13.61 7.67	30.27
22 11 16 00-0555 EA 1-1/4" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	78.39 -6.42 7.50 15.00 8.92	33.33
22 11 16 00-0556 EA 1-1/2" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	92.98 -7.43 8.33 16.66 10.20	37.03
22 11 16 00-0557 EA 2" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	130.45 -9.85 10.00 19.99 13.19	44.43
22 11 16 00-0558 EA 2-1/2" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	212.87 -14.31 10.99 21.98 17.97	48.91
22 11 16 00-0559 EA 3" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	465.22 -28.46 15.59 31.19 33.66	69.36
22 11 16 00-0560 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0413)		
22 11 16 00-0561 EA 1/4" Cast Bronze, Solder X Female Threaded Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	42.61 -3.24 3.33 6.66 4.35	14.81
22 11 16 00-0562 EA 3/8" Cast Bronze, Solder X Female Threaded Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	47.96 -3.74 4.03 8.06 5.08	17.87
22 11 16 00-0563 EA 1/2" Cast Bronze, Solder X Female Threaded Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	50.10 -4.17 5.00 10.00 5.84	22.21

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0564 EA 3/4" Cast Bronze, Solder X Female Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	60.80 -4.94 5.69 11.39 6.84	25.36
22 11 16 00-0565 EA 1" Cast Bronze, Solder X Female Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	92.90 -6.91 6.80 13.61 9.18	30.27
22 11 16 00-0566 EA 1-1/4" Cast Bronze, Solder X Female Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	138.58 -9.43 7.50 15.00 11.93	33.33
22 11 16 00-0567 EA 1-1/2" Cast Bronze, Solder X Female Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	167.78 -11.17 8.33 16.66 13.94	37.03
22 11 16 00-0568 EA 2" Cast Bronze, Solder X Female Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	256.62 -16.16 10.00 19.99 19.50	44.43
22 11 16 00-0569 EA 2-1/2" Cast Bronze, Solder X Female Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	433.42 -25.33 10.99 21.98 29.00	48.91
22 11 16 00-0570 Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0413)		
22 11 16 00-0571 EA 1/4" Cast Bronze, Solder X Male Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	37.75 -3.00 3.33 6.66 4.11	14.81
22 11 16 00-0572 EA 3/8" Cast Bronze, Solder X Male Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	44.99 -3.59 4.03 8.06 4.93	17.87
22 11 16 00-0573 EA 1/2" Cast Bronze, Solder X Male Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	46.56 -3.99 5.00 10.00 5.66	22.21
22 11 16 00-0574 EA 3/4" Cast Bronze, Solder X Male Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	57.81 -4.79 5.69 11.39 6.69	25.36
22 11 16 00-0575 EA 1" Cast Bronze, Solder X Male Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	94.27 -6.98 6.80 13.61 9.25	30.27
22 11 16 00-0576 EA 1-1/4" Cast Bronze, Solder X Male Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	110.66 -8.03 7.50 15.00 10.53	33.33
22 11 16 00-0577 EA 1-1/2" Cast Bronze, Solder X Male Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	119.26 -8.74 8.33 16.66 11.52	37.03
22 11 16 00-0578 EA 2" Cast Bronze, Solder X Male Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	164.52 -11.56 10.00 19.99 14.89	44.43
22 11 16 00-0579 EA 2-1/2" Cast Bronze, Solder X Male Threaded Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	360.12 -21.67 10.99 21.98 25.33	48.91
22 11 16 00-0580 Copper Caps (22 11 16 00-0413)		
22 11 16 00-0581 EA 1/4" Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	4.14 -0.38 0.52 1.04 0.55	2.34



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0582	EA	3/8"	Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	4.76 -0.42 0.56 1.11 0.61	2.47
22 11 16 00-0583	EA	1/2"	Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	4.47 -0.42 0.59 1.18 0.62	2.66
22 11 16 00-0584	EA	3/4"	Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	5.95 -0.54 0.74 1.48 0.79	3.33
22 11 16 00-0585	EA	1"	Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	8.65 -0.75 0.94 1.88 1.06	4.21
22 11 16 00-0586	EA	1-1/4"	Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	11.77 -1.02 1.28 2.57 1.44	5.78
22 11 16 00-0587	EA	1-1/2"	Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	14.74 -1.24 1.51 3.02 1.74	6.80
22 11 16 00-0588	EA	2"	Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	31.04 -2.67 3.36 6.72 3.79	15.13
22 11 16 00-0589	EA	2-1/2"	Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	59.93 -4.70 5.11 10.23 6.41	23.01
22 11 16 00-0590	EA	3"	Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	81.74 -6.32 6.71 13.42 8.56	30.20
22 11 16 00-0591	EA	4"	Copper Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	123.12 -8.82 7.99 15.98 11.48	35.95
22 11 16 00-0592	EA	5"	Cast Bronze Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	564.99 -31.95 11.09 22.19 35.65	49.33
22 11 16 00-0593	EA	6"	Cast Bronze Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	1,072.97 -58.38 14.20 28.40 63.11	63.91
22 11 16 00-0594	EA	8"	Cast Bronze Cap For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	1,377.95 -75.71 20.45 40.90 82.53	92.02
22 11 16 00-0595 Copper Crosses (22 11 16 00-0413)					
22 11 16 00-0596	EA	1/2"	Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	64.84 -6.05 8.44 16.87 8.87	37.49
22 11 16 00-0597	EA	3/4"	Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	86.58 -7.82 10.48 20.96 11.32	46.61
22 11 16 00-0598	EA	1"	Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	111.88 -9.77 12.53 25.05 13.94	55.64

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0599 EA 1-1/4" Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	131.11 -11.07 13.55 27.10 15.59	60.24
22 11 16 00-0600 EA 1-1/2" Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	156.98 -12.79 14.83 29.65 17.73	65.87
22 11 16 00-0601 EA 2" Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	220.61 -16.57 16.61 33.23 22.11	73.87
22 11 16 00-0602 EA 2-1/2" Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	375.91 -24.93 18.41 36.81 31.07	81.80
22 11 16 00-0603 Cast Bronze Crosses (22 11 16 00-0413)		
22 11 16 00-0604 EA 3/8" Cast Bronze Cross..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	52.36 -4.66 6.14 12.27 6.71	27.26
22 11 16 00-0605 EA 1/2" Cast Bronze Cross..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	66.56 -6.14 8.44 16.87 8.95	37.49
22 11 16 00-0606 EA 3/4" Cast Bronze Cross..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	89.92 -7.99 10.48 20.96 11.48	46.61
22 11 16 00-0607 EA 1" Cast Bronze Cross..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	117.55 -10.05 12.53 25.05 14.23	55.64
22 11 16 00-0608 EA 1-1/4" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	139.27 -11.48 13.55 27.10 16.00	60.24
22 11 16 00-0609 EA 1-1/2" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	168.61 -13.37 14.83 29.65 18.31	65.87
22 11 16 00-0610 EA 2" Cast Bronze Cross..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	242.57 -17.67 16.61 33.23 23.20	73.87
22 11 16 00-0611 EA 2-1/2" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	426.55 -27.46 18.41 36.81 33.60	81.80
22 11 16 00-0612 Flexible Corrugated Copper Supply Line (22 11 16 00-0413)		
22 11 16 00-0613 EA 3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line	63.86	25.36
22 11 16 00-0614 EA 3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line	66.98	25.36
22 11 16 00-0615 EA 3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line	58.25	25.36
22 11 16 00-0616 EA 3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line	61.78	25.36
22 11 16 00-0617 EA 3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line	64.90	25.36
22 11 16 00-0618 EA 3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line	66.98	25.36
22 11 16 00-0619 Crimped Copper Fittings (22 11 16 00-0345) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0620 Crimped Copper 90 Degree Elbows (22 11 16 00-0619)		
22 11 16 00-0621 EA 1/2" Crimped Copper 90 Degree Elbow	19.02	11.11
22 11 16 00-0622 EA 3/4" Crimped Copper 90 Degree Elbow	22.97	12.69
22 11 16 00-0623 EA 1" Crimped Copper 90 Degree Elbow	30.68	15.09
22 11 16 00-0624 EA 1-1/4" Crimped Copper 90 Degree Elbow	41.18	16.66
22 11 16 00-0625 EA 1-1/2" Crimped Copper 90 Degree Elbow	58.40	18.51
22 11 16 00-0626 EA 2" Crimped Copper 90 Degree Elbow	75.90	22.21



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0627 EA 2-1/2" Crimped Copper 90 Degree Elbow.....	162.53	25.92
22 11 16 00-0628 EA 3" Crimped Copper 90 Degree Elbow.....	201.85	30.82
22 11 16 00-0629 EA 4" Crimped Copper 90 Degree Elbow.....	253.56	40.73
22 11 16 00-0630 Crimped Copper 45 Degree Elbows (22 11 16 00-0619)		
22 11 16 00-0631 EA 1/2" Crimped Copper 45 Degree Elbow.....	19.41	11.11
22 11 16 00-0632 EA 3/4" Crimped Copper 45 Degree Elbow.....	22.34	12.69
22 11 16 00-0633 EA 1" Crimped Copper 45 Degree Elbow.....	33.51	15.09
22 11 16 00-0634 EA 1-1/4" Crimped Copper 45 Degree Elbow.....	40.55	16.66
22 11 16 00-0635 EA 1-1/2" Crimped Copper 45 Degree Elbow.....	52.98	18.51
22 11 16 00-0636 EA 2" Crimped Copper 45 Degree Elbow.....	68.60	22.21
22 11 16 00-0637 EA 2-1/2" Crimped Copper 45 Degree Elbow.....	120.56	25.92
22 11 16 00-0638 EA 3" Crimped Copper 45 Degree Elbow.....	162.98	30.82
22 11 16 00-0639 EA 4" Crimped Copper 45 Degree Elbow.....	223.16	40.73
22 11 16 00-0640 Crimped Copper Straight Tees (22 11 16 00-0619)		
22 11 16 00-0641 EA 1/2" Crimped Copper Straight Tee.....	28.61	16.66
22 11 16 00-0642 EA 3/4" Crimped Copper Straight Tee.....	39.22	21.94
22 11 16 00-0643 EA 1" Crimped Copper Straight Tee.....	48.04	24.34
22 11 16 00-0644 EA 1-1/4" Crimped Copper Straight Tee.....	56.89	25.00
22 11 16 00-0645 EA 1-1/2" Crimped Copper Straight Tee.....	80.28	28.42
22 11 16 00-0646 EA 2" Crimped Copper Straight Tee.....	96.56	33.33
22 11 16 00-0647 EA 2-1/2" Crimped Copper Straight Tee.....	211.09	38.88
22 11 16 00-0648 EA 3" Crimped Copper Straight Tee.....	260.38	46.28
22 11 16 00-0649 EA 4" Crimped Copper Straight Tee.....	359.59	61.09
22 11 16 00-0650 Crimped Copper Reducing Tees (22 11 16 00-0619)		
22 11 16 00-0651 EA 3/4" Crimped Copper Reducing Tee.....	33.61	15.83
22 11 16 00-0652 EA 1" Crimped Copper Reducing Tee.....	48.63	20.82
22 11 16 00-0653 EA 1-1/4" Crimped Copper Reducing Tee.....	52.47	23.14
22 11 16 00-0654 EA 1-1/2" Crimped Copper Reducing Tee.....	69.10	23.79
22 11 16 00-0655 EA 2" Crimped Copper Reducing Tee.....	82.78	26.94
22 11 16 00-0656 EA 2-1/2" Crimped Copper Reducing Tee.....	225.74	30.55
22 11 16 00-0657 EA 3" Crimped Copper Reducing Tee.....	275.23	37.03
22 11 16 00-0658 EA 4" Crimped Copper Reducing Tee.....	324.01	49.34
22 11 16 00-0659 Crimped Copper Couplings (22 11 16 00-0619)		
22 11 16 00-0660 EA 1/2" Crimped Copper Coupling.....	18.78	11.11
22 11 16 00-0661 EA 3/4" Crimped Copper Coupling.....	22.19	12.69
22 11 16 00-0662 EA 1" Crimped Copper Coupling.....	29.18	15.09
22 11 16 00-0663 EA 1-1/4" Crimped Copper Coupling.....	33.09	16.66
22 11 16 00-0664 EA 1-1/2" Crimped Copper Coupling.....	42.85	18.51
22 11 16 00-0665 EA 2" Crimped Copper Coupling.....	52.57	22.21
22 11 16 00-0666 EA 2-1/2" Crimped Copper Coupling.....	100.46	25.92
22 11 16 00-0667 EA 3" Crimped Copper Coupling.....	124.71	30.82
22 11 16 00-0668 EA 4" Crimped Copper Coupling.....	169.99	40.73
22 11 16 00-0669 Crimped Copper Reducing Couplings (22 11 16 00-0619)		
22 11 16 00-0670 EA 3/4" Crimped Copper Reducing Coupling.....	25.49	10.55
22 11 16 00-0671 EA 1" Crimped Copper Reducing Coupling.....	29.13	12.03
22 11 16 00-0672 EA 1-1/4" Crimped Copper Reducing Coupling.....	37.67	14.34
22 11 16 00-0673 EA 1-1/2" Crimped Copper Reducing Coupling.....	47.51	15.83
22 11 16 00-0674 EA 2" Crimped Copper Reducing Coupling.....	53.09	17.58
22 11 16 00-0675 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling.....	104.23	21.01
22 11 16 00-0676 EA 3" Crimped Copper FTG x C Reducing Coupling.....	129.82	24.72
22 11 16 00-0677 EA 4" Crimped Copper FTG x C Reducing Coupling.....	168.78	32.67
22 11 16 00-0678 Crimped Copper Male Adapters (22 11 16 00-0619)		
22 11 16 00-0679 EA 1/2" Crimped Copper Male Adapter.....	19.26	11.11
22 11 16 00-0680 EA 3/4" Crimped Copper Male Adapter.....	23.68	12.69
22 11 16 00-0681 EA 1" Crimped Copper Male Adapter.....	31.31	15.09
22 11 16 00-0682 EA 1-1/4" Crimped Copper Male Adapter.....	43.93	16.66
22 11 16 00-0683 EA 1-1/2" Crimped Copper Male Adapter.....	54.32	18.51
22 11 16 00-0684 EA 2" Crimped Copper Male Adapter.....	84.45	22.21
22 11 16 00-0685 EA 2-1/2" Crimped Copper Male Adapter.....	162.53	25.92
22 11 16 00-0686 EA 3" Crimped Copper Male Adapter.....	201.85	30.82
22 11 16 00-0687 EA 4" Crimped Copper Male Adapter.....	241.16	40.73
22 11 16 00-0688 Crimped Copper Female Adapters (22 11 16 00-0619)		
22 11 16 00-0689 EA 1/2" Crimped Copper Female Adapter.....	19.80	11.11
22 11 16 00-0690 EA 3/4" Crimped Copper Female Adapter.....	24.08	12.69
22 11 16 00-0691 EA 1" Crimped Copper Female Adapter.....	32.10	15.09
22 11 16 00-0692 EA 1-1/4" Crimped Copper Female Adapter.....	46.28	16.66

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0693	EA	1-1/2" Crimped Copper Female Adapter.....	58.72	18.51
22 11 16 00-0694	EA	2" Crimped Copper Female Adapter.....	85.87	22.21
22 11 16 00-0695		Crimped Copper Caps (22 11 16 00-0619)		
22 11 16 00-0696	EA	1/2" Crimped Copper Cap.....	12.88	5.55
22 11 16 00-0697	EA	3/4" Crimped Copper Cap.....	17.41	6.48
22 11 16 00-0698	EA	1" Crimped Copper Cap.....	22.97	7.40
22 11 16 00-0699	EA	1-1/4" Crimped Copper Cap.....	25.92	8.33
22 11 16 00-0700	EA	1-1/2" Crimped Copper Cap.....	35.15	9.54
22 11 16 00-0701	EA	2" Crimped Copper Cap.....	41.95	11.11
22 11 16 00-0702	EA	2-1/2" Crimped Copper Cap.....	100.29	12.96
22 11 16 00-0703	EA	3" Crimped Copper Cap.....	125.46	15.46
22 11 16 00-0704	EA	4" Crimped Copper Cap.....	166.90	20.36
22 11 16 00-0705		C x F NPT Crimped Bronze Unions (22 11 16 00-0619)		
22 11 16 00-0706	EA	1/2" C x F NPT Crimped Bronze Union.....	36.03	15.09
22 11 16 00-0707	EA	3/4" C x F NPT Crimped Bronze Union.....	44.99	18.61
22 11 16 00-0708	EA	1" C x F NPT Crimped Bronze Union.....	61.85	22.31
22 11 16 00-0709	EA	1-1/4" C x F NPT Crimped Bronze Union.....	74.66	25.73
22 11 16 00-0710	EA	1-1/2" C x F NPT Crimped Bronze Union.....	94.31	25.18
22 11 16 00-0711	EA	2" C x F NPT Crimped Bronze Union.....	129.53	36.48
22 11 16 00-0712		C x C Crimped Bronze Unions (22 11 16 00-0619)		
22 11 16 00-0713	EA	1/2" C x C Bronze Crimped Union.....	33.31	11.11
22 11 16 00-0714	EA	3/4" C x C Bronze Crimped Union.....	40.80	12.69
22 11 16 00-0715	EA	1" C x C Bronze Crimped Union.....	57.54	15.09
22 11 16 00-0716	EA	1-1/4" C x C Bronze Crimped Union.....	74.79	16.66
22 11 16 00-0717	EA	1-1/2" C x C Bronze Crimped Union.....	95.39	18.51
22 11 16 00-0718	EA	2" C x C Bronze Crimped Union.....	143.76	22.21
22 11 16 00-0719		C x Flange Crimped Bronze Flange (22 11 16 00-0619)		
22 11 16 00-0720	EA	2-1/2" C x Flange Crimped Bronze Flange.....	275.32	25.92
22 11 16 00-0721	EA	3" C x Flange Crimped Bronze Flange.....	300.76	30.82
22 11 16 00-0722	EA	4" C x Flange Crimped Bronze Flange.....	345.98	40.73
22 11 16 00-0723		Field Installed FKM Seals (22 11 16 00-0619)		
		Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
22 11 16 00-0724	EA	1/2" Field Installed FKM Seal.....	5.49	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0725	EA	3/4" Field Installed FKM Seal.....	6.90	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0726	EA	1" Field Installed FKM Seal.....	7.91	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0727	EA	1-1/4" Field Installed FKM Seal.....	9.08	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0728	EA	1-1/2" Field Installed FKM Seal.....	12.51	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0729	EA	2" Field Installed FKM Seal.....	13.98	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0730	EA	2-1/2" Field Installed FKM Seal.....	20.48	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0731	EA	3" Field Installed FKM Seal.....	23.58	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0732	EA	4" Field Installed FKM Seal.....	32.07	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0733		Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0345)		
22 11 16 00-0734	EA	Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	9.25	
22 11 16 00-0735	EA	3/4", Cut And Prepare Existing In Place Copper Pipe.....	10.00	
22 11 16 00-0736	EA	1", Cut And Prepare Existing In Place Copper Pipe.....	11.25	
22 11 16 00-0737	EA	1-1/4", Cut And Prepare Existing In Place Copper Pipe.....	11.80	
22 11 16 00-0738	EA	1-1/2", Cut And Prepare Existing In Place Copper Pipe.....	12.49	
22 11 16 00-0739	EA	2", Cut And Prepare Existing In Place Copper Pipe.....	13.75	
22 11 16 00-0740	EA	2-1/2", Cut And Prepare Existing In Place Copper Pipe.....	14.81	
22 11 16 00-0741	EA	3", Cut And Prepare Existing In Place Copper Pipe.....	17.49	
22 11 16 00-0742	EA	4", Cut And Prepare Existing In Place Copper Pipe.....	23.60	
22 11 16 00-0743	EA	6", Cut And Prepare Existing In Place Copper Pipe.....	33.73	
22 11 16 00-0744	EA	8", Cut And Prepare Existing In Place Copper Pipe.....	44.99	
22 11 16 00-0745		Sweat Brass Companion Flanges (22 11 16 00-0345)		
22 11 16 00-0746	EA	1" Sweat Brass Companion Flange.....	45.03	14.23
22 11 16 00-0747	EA	1-1/4" Sweat Brass Companion Flange.....	49.19	15.68
22 11 16 00-0748	EA	1-1/2" Sweat Brass Companion Flange.....	68.50	17.04



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0749 EA 2" Sweat Brass Companion Flange	90.32	18.92
22 11 16 00-0750 EA 2-1/2" Sweat Brass Companion Flange	113.79	22.75
22 11 16 00-0751 EA 3" Sweat Brass Companion Flange	127.21	29.82
22 11 16 00-0752 EA 4" Sweat Brass Companion Flange	168.35	35.54
22 11 16 00-0753 EA 5" Sweat Brass Companion Flange	315.65	41.80
22 11 16 00-0754 EA 6" Sweat Brass Companion Flange	370.82	60.73
22 11 16 00-0755 EA 8" Copper Companion Flange	825.30	86.62
22 11 16 00-0756 Brass Compression Fittings (22 11 16 00-0345)		
22 11 16 00-0757 Brass Compression Unions (22 11 16 00-0756)		
22 11 16 00-0758 EA 1/4" Brass Compression Union	14.93	10.00
22 11 16 00-0759 EA 3/8" Brass Compression Union	16.07	10.00
22 11 16 00-0760 EA 1/2" Brass Compression Union	14.93	10.00
22 11 16 00-0761 EA 5/8" Brass Compression Union	14.93	10.00
22 11 16 00-0762 EA 3/4" Brass Compression Union	20.20	10.00
22 11 16 00-0763 EA 3/8" x 1/4" Brass Compression Union	14.93	10.00
22 11 16 00-0764 EA 1/2" x 3/8" Brass Compression Union	14.93	10.00
22 11 16 00-0765 EA 5/8" x 3/8" Brass Compression Union	14.93	10.00
22 11 16 00-0766 EA 5/8" x 1/2" Brass Compression Union	14.93	10.00
22 11 16 00-0767 Brass Compression Union Elbows (22 11 16 00-0756)		
22 11 16 00-0768 EA 1/4" Brass Compression Union Elbow	14.93	10.00
22 11 16 00-0769 EA 3/8" Brass Compression Union Elbow	14.93	10.00
22 11 16 00-0770 EA 1/2" Brass Compression Union Elbow	14.93	10.00
22 11 16 00-0771 EA 5/8" Brass Compression Union Elbow	19.28	10.00
22 11 16 00-0772 EA 3/4" Brass Compression Union Elbow	14.93	10.00
22 11 16 00-0773 EA 3/8" x 1/4" Brass Compression Union Elbow	14.93	10.00
22 11 16 00-0774 EA 1/2" x 3/8" Brass Compression Union Elbow	17.98	10.00
22 11 16 00-0775 EA 5/8" x 3/8" Brass Compression Union Elbow	18.22	10.00
22 11 16 00-0776 EA 5/8" x 1/2" Brass Compression Union Elbow	22.01	10.00
22 11 16 00-0777 Brass Compression Union Tees (22 11 16 00-0756)		
22 11 16 00-0778 EA 1/4" Brass Compression Union Tee	14.93	10.00
22 11 16 00-0779 EA 3/8" Brass Compression Union Tee	14.93	10.00
22 11 16 00-0780 EA 1/2" Brass Compression Union Tee	14.93	10.00
22 11 16 00-0781 EA 5/8" Brass Compression Union Tee	21.32	10.00
22 11 16 00-0782 EA 3/4" Brass Compression Union Tee	14.93	10.00
22 11 16 00-0783 EA 3/8" x 3/8" x 1/4" Brass Compression Union Tee	18.40	10.00
22 11 16 00-0784 EA 1/2" x 1/2" x 3/8" Brass Compression Union Tee	14.93	10.00
22 11 16 00-0785 EA 5/8" x 5/8" x 3/8" Brass Compression Union Tee	22.27	10.00
22 11 16 00-0786 EA 5/8" x 5/8" x 1/2" Brass Compression Union Tee	22.75	10.00
22 11 16 00-0787 Brass Compression Male Connectors (22 11 16 00-0756)		
22 11 16 00-0788 EA 1/4" Brass Compression Male Connector	15.67	10.00
22 11 16 00-0789 EA 3/8" Brass Compression Male Connector	15.98	10.00
22 11 16 00-0790 EA 1/2" Brass Compression Male Connector	14.93	10.00
22 11 16 00-0791 EA 5/8" Brass Compression Male Connector	14.93	10.00
22 11 16 00-0792 EA 3/4" Brass Compression Male Connector	18.63	9.91
22 11 16 00-0793 Brass Compression Female Connectors (22 11 16 00-0756)		
22 11 16 00-0794 EA 1/4" Brass Compression Female Connector	16.00	10.00
22 11 16 00-0795 EA 3/8" Brass Compression Female Connector	16.40	10.00
22 11 16 00-0796 EA 1/2" Brass Compression Female Connector	17.07	10.00
22 11 16 00-0797 EA 5/8" Brass Compression Female Connector	14.70	10.00
22 11 16 00-0798 EA 3/4" Brass Compression Female Connector	22.22	9.81
22 11 16 00-0799 Dielectric Fittings (22 11 16 00-0345)		
22 11 16 00-0800 Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0799)		
22 11 16 00-0801 EA 1/2" Copper x Female Iron Pipe Thread Dielectric Union	39.11	22.21
22 11 16 00-0802 EA 3/4" Copper x Female Iron Pipe Thread Dielectric Union	43.73	25.36
22 11 16 00-0803 EA 1" Copper x Female Iron Pipe Thread Dielectric Union	51.80	27.87
22 11 16 00-0804 EA 1-1/4" Copper x Female Iron Pipe Thread Dielectric Union	62.48	30.67
22 11 16 00-0805 EA 1-1/2" Copper x Female Iron Pipe Thread Dielectric Union	75.26	34.09
22 11 16 00-0806 EA 2" Copper x Female Iron Pipe Thread Dielectric Union	95.38	40.90
22 11 16 00-0807 Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0799)		
22 11 16 00-0808 EA 1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	42.75	22.21
22 11 16 00-0809 EA 3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	49.73	25.36
22 11 16 00-0810 EA 1" Female Brass Thread x Iron Pipe Thread Dielectric Union	59.72	27.87
22 11 16 00-0811 EA 1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	72.99	30.67
22 11 16 00-0812 EA 1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	88.27	34.09

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0813	EA	2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	110.63	40.90
22 11 16 00-0814		Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0799)		
22 11 16 00-0815	EA	1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	40.44	22.21
22 11 16 00-0816	EA	3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	45.92	25.36
22 11 16 00-0817	EA	1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	52.38	27.87
22 11 16 00-0818	EA	1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	60.45	30.67
22 11 16 00-0819	EA	1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	73.25	34.09
22 11 16 00-0820	EA	2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	93.76	40.90
22 11 16 00-0821		Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0799)		
22 11 16 00-0822	EA	2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	232.71	105.15
22 11 16 00-0823	EA	3" Copper x Female Iron Pipe Thread Dielectric Flange.....	291.40	132.41
22 11 16 00-0824	EA	4" Copper x Female Iron Pipe Thread Dielectric Flange.....	410.23	180.21
22 11 16 00-0825		Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0799)		
22 11 16 00-0826	EA	2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	234.22	105.15
22 11 16 00-0827	EA	3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	303.36	132.41
22 11 16 00-0828	EA	4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	548.23	180.21
22 11 16 00-0829		Brass Push-Fit Fittings (22 11 16)		
22 11 16 00-0830	EA	1/4" x 1/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	18.35	9.25
22 11 16 00-0831	EA	3/8" x 3/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	22.17	9.88
22 11 16 00-0832	EA	1/2" x 1/2" Brass Push-Fit Coupling..... Note: (Sharkbite)	23.31	11.11
22 11 16 00-0833	EA	5/8" x 5/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	26.48	11.85
22 11 16 00-0834	EA	3/4" x 3/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	27.20	12.66
22 11 16 00-0835	EA	1" x 1" Brass Push-Fit Coupling..... Note: (Sharkbite)	37.21	15.12
22 11 16 00-0836	EA	1/2" x 3/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	22.73	10.49
22 11 16 00-0837	EA	3/4" x 5/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	26.07	11.48
22 11 16 00-0838	EA	1" x 3/4" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	37.60	13.88
22 11 16 00-0839	EA	1/4" x 1/4" Brass Push-Fit Elbow..... Note: (Sharkbite)	19.00	9.25
22 11 16 00-0840	EA	3/8" x 3/8" Brass Push-Fit Elbow..... Note: (Sharkbite)	24.92	9.88
22 11 16 00-0841	EA	1/2" x 1/2" Brass Push-Fit Elbow..... Note: (Sharkbite)	23.66	11.11
22 11 16 00-0842	EA	5/8" x 5/8" Brass Push-Fit Elbow..... Note: (Sharkbite)	28.08	11.85
22 11 16 00-0843	EA	3/4" x 3/4" Brass Push-Fit Elbow..... Note: (Sharkbite)	26.74	12.66
22 11 16 00-0844	EA	1" x 1" Brass Push-Fit Elbow..... Note: (Sharkbite)	37.56	15.12
22 11 16 00-0845	EA	1/2" x 3/8" Brass Push-Fit Reducing Elbow..... Note: (Sharkbite)	22.44	10.49
22 11 16 00-0846	EA	3/4" x 1/2" Brass Push-Fit Reducing Elbow..... Note: (Sharkbite)	24.93	11.48
22 11 16 00-0847	EA	1" x 3/4" Brass Push-Fit Reducing Elbow..... Note: (Sharkbite)	45.48	13.88
22 11 16 00-0848	EA	1/4" x 1/4" x 1/4" Brass Push-Fit Tee..... Note: (Sharkbite)	28.77	13.88
22 11 16 00-0849	EA	3/8" x 3/8" x 3/8" Brass Push-Fit Tee..... Note: (Sharkbite)	35.37	14.81
22 11 16 00-0850	EA	1/2" x 1/2" x 1/2" Brass Push-Fit Tee..... Note: (Sharkbite)	33.59	16.66
22 11 16 00-0851	EA	5/8" x 5/8" x 5/8" Brass Push-Fit Tee..... Note: (Sharkbite)	41.44	17.78
22 11 16 00-0852	EA	3/4" x 3/4" x 3/4" Brass Push-Fit Tee..... Note: (Sharkbite)	39.01	18.97
22 11 16 00-0853	EA	1" x 1" x 1" Brass Push-Fit Tee..... Note: (Sharkbite)	52.07	22.67
22 11 16 00-0854	EA	1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	36.55	15.73
22 11 16 00-0855	EA	1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	36.83	16.05
22 11 16 00-0856	EA	3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	37.61	18.21
22 11 16 00-0857	EA	1" x 1" x 3/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	50.30	21.45



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0858	EA		1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	21.53	10.18
22 11 16 00-0859	EA		3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	21.44	10.49
22 11 16 00-0860	EA		1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	21.48	11.11
22 11 16 00-0861	EA		3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	24.56	12.66
22 11 16 00-0862	EA		1" x 1" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	33.50	15.12
22 11 16 00-0863	EA		1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	19.32	10.18
22 11 16 00-0864	EA		3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	21.44	10.49
22 11 16 00-0865	EA		1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	21.52	11.11
22 11 16 00-0866	EA		3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	24.36	12.66
22 11 16 00-0867	EA		5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	25.91	12.24
22 11 16 00-0868	EA		1" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	30.77	13.88
22 11 16 00-0869	EA		1" x 1" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	33.91	15.12
22 11 16 00-0870	EA		1/2" Brass Push-Fit Ball Valve Note: (Sharkbite)	29.13	11.11
22 11 16 00-0871	EA		3/4" Brass Push-Fit Ball Valve Note: (Sharkbite)	33.92	12.66
22 11 16 00-0872	EA		1" Brass Push-Fit Ball Valve Note: (Sharkbite)	44.20	15.12
22 11 16 00-0873	EA		1/2" Brass Push-Fit Check Valve Note: (Sharkbite)	30.91	11.11
22 11 16 00-0874	EA		3/4" Brass Push-Fit Check Valve Note: (Sharkbite)	36.92	12.66
22 11 16 00-0875	EA		1" Brass Push-Fit Check Valve Note: (Sharkbite)	59.81	15.12
22 11 16 00-0876			Copper Pipe Assemblies ^(22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0877	LF		1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	17.53	2.60
			For Type K Tubing Instead Of Type L, Add	1.11	
			For Type M Tubing Instead Of Type L, Deduct	-0.95	
			For Silver Solder Instead Of 95/5 Solder, Add	2.32	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.60	
			For Work In Restricted Working Space, Add	4.34	
22 11 16 00-0878	LF		3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	20.10	3.33
			For Type K Tubing Instead Of Type L, Add	1.30	
			For Type M Tubing Instead Of Type L, Deduct	-1.10	
			For Silver Solder Instead Of 95/5 Solder, Add	2.65	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.83	
			For Work In Restricted Working Space, Add	4.92	
22 11 16 00-0879	LF		1" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	21.91	3.98
			For Type K Tubing Instead Of Type L, Add	1.51	
			For Type M Tubing Instead Of Type L, Deduct	-1.25	
			For Silver Solder Instead Of 95/5 Solder, Add	2.81	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.96	
			For Work In Restricted Working Space, Add	5.16	
22 11 16 00-0880	LF		1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	24.37	4.63
			For Type K Tubing Instead Of Type L, Add	1.85	
			For Type M Tubing Instead Of Type L, Deduct	-1.49	
			For Silver Solder Instead Of 95/5 Solder, Add	3.01	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.11	
			For Work In Restricted Working Space, Add	5.36	
			For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	-0.65	
22 11 16 00-0881	LF		1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	26.89	5.28
			For Type K Tubing Instead Of Type L, Add	2.13	
			For Type M Tubing Instead Of Type L, Deduct	-1.70	
			For Silver Solder Instead Of 95/5 Solder, Add	3.25	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.30	
			For Work In Restricted Working Space, Add	5.72	
			For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	-0.78	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0882	LF		2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	33.40	6.57
			For Type K Tubing Instead Of Type L, Add	2.88	
			For Type M Tubing Instead Of Type L, Deduct	-2.25	
			For Silver Solder Instead Of 95/5 Solder, Add	3.86	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.77	
			For Work In Restricted Working Space, Add	6.58	
			For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	-1.15	
22 11 16 00-0883	LF		2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	40.41	7.92
			For Type K Tubing Instead Of Type L, Add	3.89	
			For Type M Tubing Instead Of Type L, Deduct	-2.97	
			For Silver Solder Instead Of 95/5 Solder, Add	4.37	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.20	
			For Work In Restricted Working Space, Add	7.05	
			For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	-1.69	
22 11 16 00-0884	LF		3" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	48.58	9.20
			For Type K Tubing Instead Of Type L, Add	5.05	
			For Type M Tubing Instead Of Type L, Deduct	-3.79	
			For Silver Solder Instead Of 95/5 Solder, Add	4.98	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.70	
			For Work In Restricted Working Space, Add	7.64	
			For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	-2.31	
22 11 16 00-0885	LF		4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	74.19	12.19
			For Type K Tubing Instead Of Type L, Add	8.51	
			For Type M Tubing Instead Of Type L, Deduct	-6.27	
			For Silver Solder Instead Of 95/5 Solder, Add	7.00	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.36	
			For Work In Restricted Working Space, Add	9.88	
			For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	-4.13	
22 11 16 00-0886	LF		5" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	129.69	15.17
			For Type K Tubing Instead Of Type L, Add	16.94	
			For Type M Tubing Instead Of Type L, Deduct	-12.18	
			For Silver Solder Instead Of 95/5 Solder, Add	10.71	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.60	
			For Work In Restricted Working Space, Add	12.68	
			For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	-8.74	
22 11 16 00-0887	LF		6" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	169.01	18.32
			For Type K Tubing Instead Of Type L, Add	22.26	
			For Type M Tubing Instead Of Type L, Deduct	-15.99	
			For Silver Solder Instead Of 95/5 Solder, Add	13.82	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.13	
			For Work In Restricted Working Space, Add	16.10	
			For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	-11.53	
22 11 16 00-0888	LF		8" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	362.66	21.90
			For Type K Tubing Instead Of Type L, Add	54.28	
			For Type M Tubing Instead Of Type L, Deduct	-38.18	
			For Silver Solder Instead Of 95/5 Solder, Add	24.80	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-21.47	
			For Work In Restricted Working Space, Add	20.01	
			For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	-29.60	
22 11 16 00-0889			Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16)		
			Note: Socket weld.		
22 11 16 00-0890			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0889)		
22 11 16 00-0891			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0890)		
22 11 16 00-0892	LF		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	4.67 1.02	1.36
22 11 16 00-0893	LF		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	5.31 1.07	1.43
22 11 16 00-0894	LF		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	6.38 1.16	1.54
22 11 16 00-0895	LF		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	7.71 1.26	1.68
22 11 16 00-0896	LF		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	8.88 1.40	1.86
22 11 16 00-0897	LF		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	11.06 1.56	2.08
22 11 16 00-0898	LF		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	14.89 1.77	2.37



Plumbing			22
Plumbing Piping			22 10
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MINOR		UOM	DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI				UNIT COST		
22 11 16 00-0899	LF		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	18.96		2.80
			For Work In Restricted Working Space, Add	2.09		
22 11 16 00-0900	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	26.16		3.43
			For Work In Restricted Working Space, Add	2.57		
22 11 16 00-0901	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	44.93		4.36
			For Work In Restricted Working Space, Add	3.28		
22 11 16 00-0902	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	64.48		5.73
			For Work In Restricted Working Space, Add	4.29		
22 11 16 00-0903 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0890)						
22 11 16 00-0904	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	18.16		6.47
			For Work In Restricted Working Space, Add	4.86		
22 11 16 00-0905	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	23.52		8.18
			For Work In Restricted Working Space, Add	6.14		
22 11 16 00-0906	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	30.49		10.22
			For Work In Restricted Working Space, Add	7.69		
22 11 16 00-0907	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	41.37		12.78
			For Work In Restricted Working Space, Add	9.61		
22 11 16 00-0908	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	45.98		14.14
			For Work In Restricted Working Space, Add	10.63		
22 11 16 00-0909	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	53.74		14.14
			For Work In Restricted Working Space, Add	11.86		
22 11 16 00-0910	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	82.01		17.97
			For Work In Restricted Working Space, Add	13.50		
22 11 16 00-0911	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	93.40		21.31
			For Work In Restricted Working Space, Add	15.95		
22 11 16 00-0912	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	132.53		26.16
			For Work In Restricted Working Space, Add	19.63		
22 11 16 00-0913	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	167.25		33.23
			For Work In Restricted Working Space, Add	24.95		
22 11 16 00-0914	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	314.87		43.63
			For Work In Restricted Working Space, Add	32.72		
22 11 16 00-0915 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0890)						
22 11 16 00-0916	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	19.15		6.47
			For Work In Restricted Working Space, Add	4.86		
22 11 16 00-0917	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	24.70		8.18
			For Work In Restricted Working Space, Add	6.14		
22 11 16 00-0918	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	32.40		10.22
			For Work In Restricted Working Space, Add	7.69		
22 11 16 00-0919	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	43.89		12.78
			For Work In Restricted Working Space, Add	9.61		
22 11 16 00-0920	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	49.05		14.14
			For Work In Restricted Working Space, Add	10.63		
22 11 16 00-0921	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	54.78		15.85
			For Work In Restricted Working Space, Add	11.86		
22 11 16 00-0922	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	82.67		17.97
			For Work In Restricted Working Space, Add	13.50		
22 11 16 00-0923	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	93.31		21.31
			For Work In Restricted Working Space, Add	15.95		
22 11 16 00-0924	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	120.51		26.16
			For Work In Restricted Working Space, Add	19.63		
22 11 16 00-0925	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	189.79		33.23
			For Work In Restricted Working Space, Add	24.95		
22 11 16 00-0926	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	330.83		43.63
			For Work In Restricted Working Space, Add	32.72		
22 11 16 00-0927 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0890)						
22 11 16 00-0928	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	27.87		9.71
			For Work In Restricted Working Space, Add	7.28		
22 11 16 00-0929	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	36.39		12.27
			For Work In Restricted Working Space, Add	9.20		
22 11 16 00-0930	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	45.55		15.42
			For Work In Restricted Working Space, Add	11.55		
22 11 16 00-0931	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	62.89		19.25
			For Work In Restricted Working Space, Add	14.42		
22 11 16 00-0932	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	70.18		21.31
			For Work In Restricted Working Space, Add	15.95		
22 11 16 00-0933	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	84.68		23.69
			For Work In Restricted Working Space, Add	17.79		
22 11 16 00-0934	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	109.15		27.01
			For Work In Restricted Working Space, Add	20.24		
22 11 16 00-0935	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	125.10		31.86
			For Work In Restricted Working Space, Add	23.93		
22 11 16 00-0936	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	151.71		39.28
			For Work In Restricted Working Space, Add	29.45		
22 11 16 00-0937	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	229.40		49.93
			For Work In Restricted Working Space, Add	37.42		

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22 10	Plumbing Piping
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22 11 16 00-0938	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	463.22 49.08	65.44
22 11 16 00-0939		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0890)		
22 11 16 00-0940	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	35.47 9.71	12.95
22 11 16 00-0941	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	45.83 12.27	16.36
22 11 16 00-0942	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	57.36 15.39	20.53
22 11 16 00-0943	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	76.86 19.22	25.64
22 11 16 00-0944	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	85.54 21.27	28.37
22 11 16 00-0945	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	100.92 23.72	31.61
22 11 16 00-0946	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	125.87 26.99	35.96
22 11 16 00-0947	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	145.38 31.90	42.52
22 11 16 00-0948	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	177.01 39.26	52.31
22 11 16 00-0949	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	256.46 49.90	66.54
22 11 16 00-0950	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	476.19 65.44	87.25
22 11 16 00-0951		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts (22 11 16 00-0890)		
22 11 16 00-0952	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	16.18 4.50	5.97
22 11 16 00-0953	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	22.50 6.06	8.09
22 11 16 00-0954	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	36.93 7.93	10.57
22 11 16 00-0955	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	41.64 8.77	11.67
22 11 16 00-0956	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	48.93 9.79	13.03
22 11 16 00-0957	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	53.44 11.15	14.82
22 11 16 00-0958	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	64.75 13.16	17.55
22 11 16 00-0959	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	87.46 16.21	21.56
22 11 16 00-0960	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	139.82 20.58	27.43
22 11 16 00-0961	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	304.27 26.99	35.96
22 11 16 00-0962		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts (22 11 16 00-0890)		
22 11 16 00-0963	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	18.37 3.20	4.26
22 11 16 00-0964	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	23.32 4.50	5.97
22 11 16 00-0965	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	29.13 6.06	8.09
22 11 16 00-0966	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	36.36 7.93	10.57
22 11 16 00-0967	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	42.48 8.77	11.67
22 11 16 00-0968	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	53.15 9.79	13.03
22 11 16 00-0969	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	80.99 11.15	14.82
22 11 16 00-0970	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	158.39 13.16	17.55
22 11 16 00-0971	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	234.50 16.21	21.56
22 11 16 00-0972		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters (22 11 16 00-0890)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0973	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	13.61 3.20	4.26
22 11 16 00-0974	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	19.00 4.50	5.97
22 11 16 00-0975	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	26.94 6.06	8.09
22 11 16 00-0976	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	36.36 7.93	10.57
22 11 16 00-0977	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	42.68 8.77	11.67
22 11 16 00-0978	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	50.82 9.79	13.03
22 11 16 00-0979	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	71.57 11.15	14.82
22 11 16 00-0980	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	85.50 13.16	17.55
22 11 16 00-0981	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	124.39 16.21	21.56
22 11 16 00-0982 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters (22 11 16 00-0890)				
22 11 16 00-0983	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	14.73 3.20	4.26
22 11 16 00-0984	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	19.36 4.50	5.97
22 11 16 00-0985	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	27.03 6.06	8.09
22 11 16 00-0986	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	36.69 7.93	10.57
22 11 16 00-0987	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	41.17 8.77	11.67
22 11 16 00-0988	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	49.59 9.79	13.03
22 11 16 00-0989	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	72.28 11.15	14.82
22 11 16 00-0990	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	97.93 13.16	17.55
22 11 16 00-0991	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	145.53 16.21	21.56
22 11 16 00-0992 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0890)				
22 11 16 00-0993	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	12.23 2.91	3.91
22 11 16 00-0994	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	17.20 4.09	5.45
22 11 16 00-0995	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	23.11 5.50	7.33
22 11 16 00-0996	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	31.18 7.21	9.63
22 11 16 00-0997	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	35.60 7.98	10.65
22 11 16 00-0998	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	40.11 8.90	11.85
22 11 16 00-0999	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	58.82 10.12	13.47
22 11 16 00-1000	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	65.20 11.96	15.93
22 11 16 00-1001	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	82.27 14.72	19.59
22 11 16 00-1002	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	127.85 18.71	24.97
22 11 16 00-1003	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	214.47 24.54	32.72
22 11 16 00-1004 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0890)				
22 11 16 00-1005	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	22.40 3.50	4.69
22 11 16 00-1006	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	27.62 4.91	6.56
22 11 16 00-1007	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	33.59 6.59	8.78
22 11 16 00-1008	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	56.10 8.64	11.50
22 11 16 00-1009	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	59.65 9.56	12.78
22 11 16 00-1010	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	81.73 10.69	14.23
22 11 16 00-1011	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	136.10 12.14	16.19

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1012	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	192.38 14.36	19.17
22 11 16 00-1013	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	304.52 17.66	23.52
22 11 16 00-1014	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	406.58 22.44	29.91
22 11 16 00-1015	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	503.41 29.45	39.28
22 11 16 00-1016 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0890)				
22 11 16 00-1017	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	7.21 0.97	1.28
22 11 16 00-1018	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	12.45 2.04	2.73
22 11 16 00-1019	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	20.96 3.30	4.43
22 11 16 00-1020	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	22.95 3.61	4.77
22 11 16 00-1021	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	24.44 3.99	5.28
22 11 16 00-1022	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	32.76 4.45	5.97
22 11 16 00-1023	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	49.18 5.06	6.73
22 11 16 00-1024	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	52.99 5.98	8.01
22 11 16 00-1025	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	80.29 7.36	9.80
22 11 16 00-1026	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	169.91 9.36	12.44
22 11 16 00-1027	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	219.02 12.27	16.36
22 11 16 00-1028 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges (22 11 16 00-0890)				
22 11 16 00-1029	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	17.33 2.33	3.07
22 11 16 00-1030	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	21.18 3.27	4.35
22 11 16 00-1031	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	26.10 4.40	5.88
22 11 16 00-1032	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	31.02 5.78	7.67
22 11 16 00-1033	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	33.36 6.39	8.52
22 11 16 00-1034	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	39.71 7.11	9.46
22 11 16 00-1035	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	52.01 8.10	10.82
22 11 16 00-1036	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	59.13 9.56	12.78
22 11 16 00-1037	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	73.84 11.78	15.68
22 11 16 00-1038	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	104.26 14.98	19.94
22 11 16 00-1039	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	188.00 19.63	26.16
22 11 19 Domestic Water Piping Specialties (22 11)				
22 11 19 00-0001 Rubber Hose And Clamps (22 11 19)				
22 11 19 00-0002 General Purpose Hose (22 11 19 00-0001)				
Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.				
22 11 19 00-0003	LF	3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	4.19	1.85
22 11 19 00-0004	LF	1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	4.66	1.85
22 11 19 00-0005	LF	5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.24	1.85
22 11 19 00-0006	LF	3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.26	1.85
22 11 19 00-0007	LF	1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	6.39	2.77
22 11 19 00-0008	LF	1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	8.88	2.77
22 11 19 00-0009	LF	1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	9.74	3.69
22 11 19 00-0010	LF	2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	15.68	3.69
22 11 19 00-0011 Reinforced EPDM Water Hose Assembly (22 11 19 00-0001)				
Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.				
22 11 19 00-0012	LF	1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	19.18	3.69
22 11 19 00-0013	LF	2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	22.31	3.69



	Plumbing	22	22
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0014	LF		3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	31.22	4.54
22 11 19 00-0015	LF		4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	42.90	6.14
22 11 19 00-0016			Chemical Resistant Rubber Hoses (22 11 19 00-0001)		
22 11 19 00-0017	EA		50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose.....	1,130.59	225.48
22 11 19 00-0018	EA		50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose.....	1,575.86	225.48
22 11 19 00-0019			Water Pump Hose (22 11 19 00-0001)		
22 11 19 00-0020	EA		2" Inside Diameter, 20' Rubber Discharge Hose.....	213.37	56.40
22 11 19 00-0021	EA		2" Inside Diameter, 20' Rubber Intake Hose.....	221.14	56.40
22 11 19 00-0022			Serrated Shank Nipple (22 11 19 00-0001) Note: For use as medium pressure coupling.		
22 11 19 00-0023	EA		3/8" Inside Diameter Hose x 1/2" Male Pipe Thread Serrated Shank Nipple.....	20.18	4.62
22 11 19 00-0024	EA		1/2" Inside Diameter Hose x 5/8" Male Pipe Thread Serrated Shank Nipple.....	20.06	4.62
22 11 19 00-0025	EA		5/8" Inside Diameter Hose x 3/4" Male Pipe Thread Serrated Shank Nipple.....	20.06	4.62
22 11 19 00-0026	EA		3/4" Inside Diameter Hose x 1" Male Pipe Thread Serrated Shank Nipple.....	25.51	6.46
22 11 19 00-0027	EA		1" Inside Diameter Hose x 1-1/4" Male Pipe Thread Serrated Shank Nipple.....	26.88	6.46
22 11 19 00-0028	EA		1-1/4" Inside Diameter Hose x 1-1/2" Male Pipe Thread Serrated Shank Nipple.....	50.55	12.01
22 11 19 00-0029	EA		1-1/2" Inside Diameter Hose x 2" Male Pipe Thread Serrated Shank Nipple.....	62.66	14.77
22 11 19 00-0030			Worm-Drive Hose Clamp (22 11 19 00-0001)		
22 11 19 00-0031	EA		3/8" To 1" Diameter Worm Drive Hose Clamp.....	9.46	2.77
22 11 19 00-0032	EA		1/2" To 1-1/6" Diameter Worm Drive Hose Clamp.....	10.02	2.77
22 11 19 00-0033	EA		5/8" To 1-1/2" Diameter Worm Drive Hose Clamp.....	10.62	2.77
22 11 19 00-0034	EA		3/4" To 2" Diameter Worm Drive Hose Clamp.....	11.30	2.77
22 11 19 00-0035	EA		1" To 2-1/2" Diameter Worm Drive Hose Clamp.....	12.09	2.77
22 11 19 00-0036	EA		1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp.....	13.07	3.69
22 11 19 00-0037	EA		1-1/2" To 3" Diameter Worm Drive Hose Clamp.....	14.13	3.69
22 11 19 00-0038			Trap Primer And Accessories (22 11 19)		
22 11 19 00-0039			Trap Primer (22 11 19 00-0038)		
22 11 19 00-0040	EA		1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699).....	169.10	13.88
22 11 19 00-0041	EA		1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	104.55	9.25
22 11 19 00-0042	EA		1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	101.58	9.25
22 11 19 00-0043			Trap Primer Distribution Unit (22 11 19 00-0038)		
22 11 19 00-0044	EA		Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U)..... Note: Can be used for two, three or four drains.	99.79	18.51
22 11 19 00-0045	EA		Copper Four Opening Trap Primer Distribution Unit (PPP DU-4)..... Note: Can be used for two, three or four drains.	107.78	18.51
22 11 19 00-0046			Trap Primer Manifold (22 11 19 00-0038)		
22 11 19 00-0047	EA		Two Outlet Manifold.....	137.41	24.90
22 11 19 00-0048	EA		Four Outlet Manifold.....	202.61	28.33
22 11 19 00-0049	EA		Six Outlet Manifold.....	265.39	29.99
22 11 19 00-0050	EA		Eight Outlet Manifold.....	332.38	35.18
22 11 19 00-0051			Brass, Anti Siphon Vacuum Breakers (22 11 19) Note: Watts 288A		
22 11 19 00-0052	EA		1/2" Brass, Anti Siphon Vacuum Breaker.....	71.58	23.14
22 11 19 00-0053	EA		3/4" Brass, Anti Siphon Vacuum Breaker.....	81.62	25.92
22 11 19 00-0054	EA		1" Brass, Anti Siphon Vacuum Breaker.....	150.54	29.63
22 11 19 00-0055	EA		1-1/4" Brass, Anti Siphon Vacuum Breaker.....	230.36	34.25
22 11 19 00-0056	EA		1-1/2" Brass, Anti Siphon Vacuum Breaker.....	274.51	37.95
22 11 19 00-0057	EA		2" Brass, Anti Siphon Vacuum Breaker.....	394.62	46.28
22 11 19 00-0058	EA		2-1/2" Brass, Anti Siphon Vacuum Breaker.....	990.18	57.85
22 11 19 00-0059			Anti Siphon Pressure Vacuum Breakers (22 11 19) Note: Watts 800M4QT		
22 11 19 00-0060	EA		1/2" Anti Siphon Pressure Type Vacuum Breaker.....	178.72	23.14
22 11 19 00-0061	EA		3/4" Anti Siphon Pressure Type Vacuum Breaker.....	160.09	25.92
22 11 19 00-0062	EA		1" Anti Siphon Pressure Type Vacuum Breaker.....	223.42	29.63
22 11 19 00-0063	EA		1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	390.69	34.25
22 11 19 00-0064	EA		1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	474.59	37.95
22 11 19 00-0065	EA		2" Anti Siphon Pressure Type Vacuum Breaker.....	484.24	46.28



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0066	Bellows Type Water Hammer Arrestors (22 11 19)			
22 11 19 00-0067	EA	Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005)	156.68	11.08
22 11 19 00-0068	EA	>11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010)	300.60	13.40
22 11 19 00-0069	EA	>32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020)	436.32	13.40
22 11 19 00-0070	EA	>60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030)	1,053.54	13.40
22 11 19 00-0071	EA	>113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040)	1,185.75	13.40
22 11 19 00-0072	EA	>154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050)	1,450.94	13.40
22 11 19 00-0073	Piston Type Water Hammer Arrestors (22 11 19)			
22 11 19 00-0074	Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0073)			
22 11 19 00-0075	EA	Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	94.26	6.17
22 11 19 00-0076	EA	>11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	178.07	7.12
22 11 19 00-0077	EA	>32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C)	262.84	7.72
22 11 19 00-0078	EA	>60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	640.93	9.95
22 11 19 00-0079	EA	>113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	780.77	12.34
22 11 19 00-0080	EA	>154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	888.05	13.40
22 11 19 00-0081	Escutcheons (22 11 19)			
22 11 19 00-0082	Brass Escutcheons (22 11 19 00-0081)			
22 11 19 00-0083	Shallow Brass Escutcheons (22 11 19 00-0082)			
22 11 19 00-0084	EA	3/8" IPS, Antique Or Polished Brass Shallow Escutcheon.....	10.53	2.31
22 11 19 00-0085	EA	1/2" IPS, Antique Or Polished Brass Shallow Escutcheon.....	11.36	2.31
22 11 19 00-0086	Deep Bell Brass Escutcheons (22 11 19 00-0082)			
22 11 19 00-0087	EA	3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	12.43	2.60
22 11 19 00-0088	EA	1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	12.45	2.60
22 11 19 00-0089	Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0082)			
22 11 19 00-0090	EA	3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	14.66	2.31
22 11 19 00-0091	EA	1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	14.80	2.31
22 11 19 00-0092	EA	5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	15.01	2.31
22 11 19 00-0093	EA	3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	15.77	2.31
22 11 19 00-0094	EA	7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	16.06	2.78
22 11 19 00-0095	EA	1" IPS, Chrome Plated Brass Escutcheon With Setscrew	16.80	2.78
22 11 19 00-0096	EA	1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	17.48	3.06
22 11 19 00-0097	EA	1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	18.32	3.24
22 11 19 00-0098	EA	2" IPS, Chrome Plated Brass Escutcheon With Setscrew	25.84	3.70
22 11 19 00-0099	Plastic Escutcheons (22 11 19 00-0081)			
22 11 19 00-0100	Split-Ring White Plastic Escutcheons (22 11 19 00-0099)			
22 11 19 00-0101	EA	3/8" IPS, Split-Ring White Plastic Escutcheon	4.91	2.31
22 11 19 00-0102	EA	1/2" IPS, Split-Ring White Plastic Escutcheon	4.91	2.31
22 11 19 00-0103	EA	3/4" IPS, Split-Ring White Plastic Escutcheon	5.50	2.59
22 11 19 00-0104	EA	1" IPS, Split-Ring White Plastic Escutcheon	5.99	2.77
22 11 19 00-0105	EA	1-1/4" IPS, Split-Ring White Plastic Escutcheon	6.47	3.04
22 11 19 00-0106	EA	1-1/2" IPS, Split-Ring White Plastic Escutcheon	6.95	3.23
22 11 19 00-0107	EA	2" IPS, Split-Ring White Plastic Escutcheon	7.91	3.69
22 11 19 00-0108	EA	2-1/2" IPS, Split-Ring White Plastic Escutcheon	8.98	3.97
22 11 19 00-0109	EA	3" IPS, Split-Ring White Plastic Escutcheon	10.04	4.16
22 11 19 00-0110	EA	4" IPS, Split-Ring White Plastic Escutcheon	11.56	4.62
22 11 19 00-0111	Chrome Plate Plastic Escutcheons (22 11 19 00-0099)			
22 11 19 00-0112	EA	1/2" IPS, Chrome Plate Plastic Escutcheon.....	5.40	2.31
22 11 19 00-0113	EA	3/4" IPS, Chrome Plate Plastic Escutcheon.....	5.92	2.59
22 11 19 00-0114	EA	1" IPS, Chrome Plate Plastic Escutcheon.....	6.53	2.77
22 11 19 00-0115	EA	1-1/4" IPS, Chrome Plate Plastic Escutcheon.....	7.14	3.04
22 11 19 00-0116	EA	1-1/2" IPS, Chrome Plate Plastic Escutcheon.....	7.62	3.23
22 11 19 00-0117	EA	2" IPS, Chrome Plate Plastic Escutcheon.....	9.06	3.69
22 11 19 00-0118	EA	2-1/2" IPS, Chrome Plate Plastic Escutcheon.....	11.04	3.97



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0119	EA		3" IPS, Chrome Plate Plastic Escutcheon.....	11.56	4.16
22 11 19 00-0120	EA		4" IPS, Chrome Plate Plastic Escutcheon.....	12.61	4.62
22 11 19 00-0121			Stainless Steel Escutcheons (22 11 19 00-0081)		
22 11 19 00-0122			Shallow Stainless Steel Escutcheons (22 11 19 00-0121)		
22 11 19 00-0123	EA		3/8" IPS, Shallow Stainless Steel Escutcheon.....	11.81	2.31
22 11 19 00-0124	EA		1/2" IPS, Shallow Stainless Steel Escutcheon.....	11.81	2.31
22 11 19 00-0125	EA		3/4" IPS, Shallow Stainless Steel Escutcheon.....	16.18	2.60
22 11 19 00-0126			Chrome Plated Steel Escutcheons (22 11 19 00-0081)		
22 11 19 00-0127			Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0126)		
22 11 19 00-0128	EA		1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	5.05	2.31
22 11 19 00-0129	EA		3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	5.51	2.59
22 11 19 00-0130	EA		1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.06	2.77
22 11 19 00-0131	EA		1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.52	3.04
22 11 19 00-0132	EA		1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.98	3.23
22 11 19 00-0133	EA		2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.03	3.69
22 11 19 00-0134	EA		2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	11.39	3.97
22 11 19 00-0135	EA		3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	12.08	4.16
22 11 19 00-0136	EA		3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	14.56	4.43
22 11 19 00-0137	EA		4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	13.21	4.62
22 11 19 00-0138	EA		5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	16.66	5.08
22 11 19 00-0139	EA		6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	19.27	5.54
22 11 19 00-0140			Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0126)		
22 11 19 00-0141	EA		3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	7.48	2.31
22 11 19 00-0142	EA		1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	7.48	2.31
22 11 19 00-0143	EA		3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	8.03	2.59
22 11 19 00-0144	EA		1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	8.46	2.77
22 11 19 00-0145	EA		1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	9.58	3.04
22 11 19 00-0146	EA		1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	10.16	3.23
22 11 19 00-0147	EA		2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	11.99	3.69
22 11 19 00-0148	EA		2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	13.66	3.97
22 11 19 00-0149	EA		3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	16.40	4.16
22 11 19 00-0150	EA		3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	19.84	4.43
22 11 19 00-0151	EA		4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	20.21	4.62
22 11 19 00-0152	EA		5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	32.27	5.08
22 11 19 00-0153	EA		6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	33.79	5.54
22 11 19 00-0154			Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0126)		
22 11 19 00-0155	EA		3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	6.09	2.60
22 11 19 00-0156	EA		1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	6.02	2.60
22 11 19 00-0157	EA		3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	5.87	2.60
22 11 19 00-0158	EA		1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	6.45	2.78
22 11 19 00-0159	EA		1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.01	3.06
22 11 19 00-0160	EA		1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.68	3.24
22 11 19 00-0161			Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0126)		
22 11 19 00-0162	EA		3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	5.59	2.31
22 11 19 00-0163	EA		1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	5.59	2.31
22 11 19 00-0164	EA		3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	5.66	2.31
22 11 19 00-0165	EA		1" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.03	2.78
22 11 19 00-0166	EA		1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.53	3.06
22 11 19 00-0167	EA		1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.19	3.24
22 11 19 00-0168	EA		2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.17	3.70
22 11 19 00-0169			Wall Hydrants (22 11 19)		
			Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0170			Cast Bronze, Non-Freezer, Stainless Steel Box, Integral Vacuum Breaker		
			Wall Hydrants (22 11 19 00-0169)		
			Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0171	EA		6" Thick Wall, Cast Bronze, Non Freezer, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	518.87	23.14
			For Cast Bronze Box, Add	25.60	
			For 1" NPT Outlet, Add	60.34	
22 11 19 00-0172	EA		12" Thick Wall, Cast Bronze, Non Freezer, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	549.39	27.77
			For Cast Bronze Box, Add	25.60	
			For 1" NPT Outlet, Add	60.34	
22 11 19 00-0173	EA		18" Thick Wall, Cast Bronze, Non Freezer, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	568.35	33.42
			For Cast Bronze Box, Add	25.60	
			For 1" NPT Outlet, Add	60.34	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

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CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 11 19 00-0174	Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants				
	<i>(22 11 19 00-0169)</i>				
	Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.				
22 11 19 00-0175	EA Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	539.28		38.88	
	For Cast Bronze Box, Add	25.60			
	For 1" NPT Outlet, Add	60.34			
22 11 19 00-0176	Cast Bronze Non-Freezing Wall Hydrant <i>(22 11 19 00-0169)</i>				
	Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.				
22 11 19 00-0177	EA 3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	298.31		28.70	
	For 1" NPT Outlet, Add	60.34			
22 11 19 00-0178	EA 4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	363.13		28.70	
	For 1" NPT Outlet, Add	60.34			
22 11 19 00-0179	EA 6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	363.13		28.70	
	For 1" NPT Outlet, Add	60.34			
22 11 19 00-0180	EA 8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	363.13		28.70	
	For 1" NPT Outlet, Add	60.34			
22 11 19 00-0181	EA 10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	378.22		57.85	
	For 1" NPT Outlet, Add	60.34			
22 11 19 00-0182	EA 12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	378.22		57.85	
	For 1" NPT Outlet, Add	60.34			
22 11 19 00-0183	EA 18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	423.35		57.85	
	For 1" NPT Outlet, Add	60.34			
22 11 19 00-0184	Stainless Steel Box Type Wall Hydrants <i>(22 11 19 00-0169)</i>				
	Note: With 3/4" NPT female and 3/4" NPT male inlet connection.				
22 11 19 00-0185	EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140)	267.32		23.14	
22 11 19 00-0186	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141)	289.94		23.14	
22 11 19 00-0187	EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150)	293.02		23.14	
22 11 19 00-0188	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151)	326.95		23.14	
22 11 19 00-0189	EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145)	456.49		32.40	
	Note: Includes hot and cold hose connections.				
22 11 19 00-0190	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146)	469.85		32.40	
	Note: Includes hot and cold hose connections.				
22 11 19 00-0191	EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155)	469.85		32.40	
	Note: Includes hot and cold hose connections.				
22 11 19 00-0192	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156)	501.72		32.40	
	Note: Includes hot and cold hose connections.				
22 11 19 00-0193	Washer Boxes And Dryer Outlets <i>(22 11 19)</i>				
22 11 19 00-0194	Dryer Vent Kit <i>(22 11 19 00-0193)</i>				
	Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.				
22 11 19 00-0195	EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	65.08		12.03	
22 11 19 00-0196	Washer Boxes And Dryer Vents <i>(22 11 19 00-0193)</i>				
	Note: Includes 1/2" supply valves and mounting brackets.				
22 11 19 00-0197	EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves	225.46		18.51	
22 11 19 00-0198	Ice Maker Outlet Box <i>(22 11 19)</i>				
	Note: Includes one 1/2" quarter turn ball valve and connections wall mount.				
22 11 19 00-0199	EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	115.75		18.51	
22 11 19 00-0200	EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	142.93		18.51	
22 11 19 00-0201	EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	157.90		18.51	
22 11 19 00-0202	Tempering Controllers For Potable Hot Water <i>(22 11 19)</i>				
22 11 19 00-0203	Point-Of-Use Thermostatic Mixing Valves (Bradley) <i>(22 11 19 00-0202)</i>				
	Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.				
22 11 19 00-0204	EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007)	328.71		22.41	
22 11 19 00-0205	EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004)	148.67		22.41	
22 11 19 00-0206	EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008)	190.69		22.41	
22 11 19 00-0207	EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016)	220.55		30.19	
22 11 19 00-0208	Thermostatic Mixing Valves (Bradley) <i>(22 11 19 00-0202)</i>				
	Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.				
22 11 19 00-0209	EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	882.23		32.31	
22 11 19 00-0210	EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	991.54		39.80	
22 11 19 00-0211	EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	1,191.46		46.30	
22 11 19 00-0212	EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130)	1,540.33		48.67	
22 11 19 00-0213	EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	2,067.18		63.14	



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
22 11 19 00-0214	High Low Temperature Thermostatic Mixing Valves (Bradley) (22 11 19 00-0202) Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.				
22 11 19 00-0215	EA	3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	2,237.16		49.77
22 11 19 00-0216	EA	1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080)	2,909.26		57.87
22 11 19 00-0217	EA	1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130)	3,390.48		60.83
22 11 19 00-0218	EA	2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	3,760.37		78.91
22 11 19 00-0219	Thermostatic Mixing Valves (Leonard) (22 11 19 00-0202) Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection				
22 11 19 00-0220	EA	3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF)	643.33		32.31
		Note: For hot water or two pipe low pressure steam.			
22 11 19 00-0221	EA	1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF)	758.07		39.80
		Note: For hot water or two pipe low pressure steam.			
22 11 19 00-0222	EA	1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF)	930.70		46.30
		Note: For hot water or two pipe low pressure steam.			
22 11 19 00-0223	EA	1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF)	1,134.97		48.68
		Note: For hot water or two pipe low pressure steam.			
22 11 19 00-0224	EA	2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF)	1,682.74		63.14
		Note: For hot water or two pipe low pressure steam.			
22 11 19 00-0225	Water Mixing/Self Operating Temperature Regulator (22 11 19 00-0202) Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.				
22 11 19 00-0226	EA	3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	1,464.29		46.28
22 11 19 00-0227	EA	1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	1,566.59		58.32
22 11 19 00-0228	EA	1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	1,736.46		70.35
22 11 19 00-0229	EA	1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	1,920.82		82.39
22 11 19 00-0230	EA	2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	2,264.37		108.30
22 11 19 00-0231	EA	2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	2,643.50		123.46
22 11 19 00-0232	Backflow Preventer Valves (22 11 19)				
22 11 19 00-0233	Double Check Valve Backflow Preventer Assemblies (22 11 19 00-0232)				
22 11 19 00-0234	Threaded Double Check Valve Assemblies (22 11 19 00-0233)				
22 11 19 00-0235	Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0234) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).				
22 11 19 00-0236	EA	1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	176.86		24.81
		For Work In Restricted Working Space, Add	18.61		
		For Owner Furnished Material, Deduct	-114.84		
22 11 19 00-0237	EA	3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	217.58		35.18
		For Work In Restricted Working Space, Add	26.38		
		For Owner Furnished Material, Deduct	-129.64		
22 11 19 00-0238	EA	1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	254.47		42.95
		For Work In Restricted Working Space, Add	32.21		
		For Owner Furnished Material, Deduct	-147.09		
22 11 19 00-0239	EA	1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	341.06		49.99
		For Work In Restricted Working Space, Add	37.49		
		For Owner Furnished Material, Deduct	-216.09		
22 11 19 00-0240	EA	1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	415.03		57.39
		For Work In Restricted Working Space, Add	42.77		
		For Owner Furnished Material, Deduct	-272.48		
22 11 19 00-0241	EA	2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	490.62		74.06
		For Work In Restricted Working Space, Add	55.54		
		For Owner Furnished Material, Deduct	-305.48		
22 11 19 00-0242	Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0234) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).				
22 11 19 00-0243	EA	1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	209.72		24.81
		For Work In Restricted Working Space, Add	18.61		
		For Owner Furnished Material, Deduct	-147.70		
22 11 19 00-0244	EA	3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	265.70		35.18
		For Work In Restricted Working Space, Add	26.38		
		For Owner Furnished Material, Deduct	-177.76		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0245	EA	1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	313.47	42.95
		For Work In Restricted Working Space, Add	32.21	
		For Owner Furnished Material, Deduct	-206.09	
22 11 19 00-0246	EA	1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	425.13	49.99
		For Work In Restricted Working Space, Add	37.49	
		For Owner Furnished Material, Deduct	-300.16	
22 11 19 00-0247	EA	1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	514.04	57.39
		For Work In Restricted Working Space, Add	42.77	
		For Owner Furnished Material, Deduct	-371.49	
22 11 19 00-0248	EA	2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	627.33	74.06
		For Work In Restricted Working Space, Add	55.54	
		For Owner Furnished Material, Deduct	-442.19	
22 11 19 00-0249		Flanged Double Check Valve Assemblies (22 11 19 00-0233)		
22 11 19 00-0250		Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0249) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0251	EA	2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	3,147.06	204.50
		For Work In Restricted Working Space, Add	81.80	
		For Owner Furnished Material, Deduct	-2,874.40	
22 11 19 00-0252	EA	3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	3,458.86	230.06
		For Work In Restricted Working Space, Add	90.74	
		For Owner Furnished Material, Deduct	-3,156.38	
22 11 19 00-0253		Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0249) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0254	EA	2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY)	3,439.22	204.50
		For Work In Restricted Working Space, Add	81.80	
		For Owner Furnished Material, Deduct	-3,166.56	
22 11 19 00-0255	EA	3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY)	3,945.80	230.06
		For Work In Restricted Working Space, Add	90.74	
		For Owner Furnished Material, Deduct	-3,643.32	
22 11 19 00-0256		Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0249) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0257	EA	2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	3,168.11	204.50
		For Work In Restricted Working Space, Add	81.79	
		For Owner Furnished Material, Deduct	-2,895.47	
22 11 19 00-0258	EA	3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	2,448.91	230.06
		For Work In Restricted Working Space, Add	90.75	
		For Owner Furnished Material, Deduct	-2,146.42	
22 11 19 00-0259	EA	4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	3,827.15	340.82
		For Work In Restricted Working Space, Add	136.26	
		For Owner Furnished Material, Deduct	-3,372.96	
22 11 19 00-0260	EA	6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	5,884.69	498.28
		For Work In Restricted Working Space, Add	270.04	
		For Owner Furnished Material, Deduct	-4,984.57	
22 11 19 00-0261	EA	8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	13,203.94	747.41
		For Work In Restricted Working Space, Add	405.12	
		For Owner Furnished Material, Deduct	-11,853.55	
22 11 19 00-0262	EA	10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	16,915.96	884.04
		For Work In Restricted Working Space, Add	482.21	
		For Owner Furnished Material, Deduct	-15,308.61	
22 11 19 00-0263		Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer (22 11 19 00-0249) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0264	EA	4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series)	4,444.14	340.82
		For Work In Restricted Working Space, Add	136.25	
		For Owner Furnished Material, Deduct	-3,989.99	
22 11 19 00-0265	EA	6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series)	7,435.28	498.28
		For Work In Restricted Working Space, Add	270.04	
		For Owner Furnished Material, Deduct	-6,535.16	
22 11 19 00-0266	EA	10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series)	19,561.26	884.04
		For Work In Restricted Working Space, Add	482.21	
		For Owner Furnished Material, Deduct	-17,953.91	
22 11 19 00-0267		Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0249) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		



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22 11 19 00-0268	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 3,359.25		204.50
			For Work In Restricted Working Space, Add	81.79	
			For Owner Furnished Material, Deduct	-3,086.61	
22 11 19 00-0269	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 3,692.16		230.06
			For Work In Restricted Working Space, Add	90.74	
			For Owner Furnished Material, Deduct	-3,389.68	
22 11 19 00-0270	EA		4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 4,050.96		340.82
			For Work In Restricted Working Space, Add	136.25	
			For Owner Furnished Material, Deduct	-3,596.81	
22 11 19 00-0271	EA		6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 6,836.42		498.28
			For Work In Restricted Working Space, Add	270.04	
			For Owner Furnished Material, Deduct	-5,936.30	
22 11 19 00-0272	EA		8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 13,994.12		747.41
			For Work In Restricted Working Space, Add	405.05	
			For Owner Furnished Material, Deduct	-12,643.94	
22 11 19 00-0273	EA		10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 17,935.79		884.04
			For Work In Restricted Working Space, Add	482.21	
			For Owner Furnished Material, Deduct	-16,328.44	
22 11 19 00-0274 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0249)					
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).					
22 11 19 00-0275	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 2,038.78		204.50
			For Work In Restricted Working Space, Add	81.79	
			For Owner Furnished Material, Deduct	-1,766.14	
22 11 19 00-0276	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 2,245.33		230.06
			For Work In Restricted Working Space, Add	90.74	
			For Owner Furnished Material, Deduct	-1,942.85	
22 11 19 00-0277	EA		4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 2,573.72		340.82
			For Work In Restricted Working Space, Add	136.25	
			For Owner Furnished Material, Deduct	-2,119.57	
22 11 19 00-0278	EA		6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 4,214.36		498.28
			For Work In Restricted Working Space, Add	270.04	
			For Owner Furnished Material, Deduct	-3,314.24	
22 11 19 00-0279	EA		8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 7,902.71		747.41
			For Work In Restricted Working Space, Add	405.05	
			For Owner Furnished Material, Deduct	-6,552.53	
22 11 19 00-0280	EA		10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 8,619.02		884.04
			For Work In Restricted Working Space, Add	482.21	
			For Owner Furnished Material, Deduct	-7,011.67	
22 11 19 00-0281 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0249)					
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).					
22 11 19 00-0282	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) 2,665.44		204.50
			For Work In Restricted Working Space, Add	81.79	
			For Owner Furnished Material, Deduct	-2,392.80	
22 11 19 00-0283	EA		3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) 2,871.99		230.06
			For Work In Restricted Working Space, Add	90.74	
			For Owner Furnished Material, Deduct	-2,569.51	
22 11 19 00-0284	EA		4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY series) 3,620.89		340.82
			For Work In Restricted Working Space, Add	136.25	
			For Owner Furnished Material, Deduct	-3,166.74	
22 11 19 00-0285	EA		6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) 5,967.38		498.28
			For Work In Restricted Working Space, Add	270.04	
			For Owner Furnished Material, Deduct	-5,067.26	
22 11 19 00-0286	EA		8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) 10,500.86		747.41
			For Work In Restricted Working Space, Add	405.05	
			For Owner Furnished Material, Deduct	-9,150.68	
22 11 19 00-0287	EA		10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) 12,496.11		884.04
			For Work In Restricted Working Space, Add	482.21	
			For Owner Furnished Material, Deduct	-10,888.76	
22 11 19 00-0288 Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves (22 11 19 00-0249)					
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).					
22 11 19 00-0289	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) 1,914.13		204.50
			For Work In Restricted Working Space, Add	81.79	
			For Owner Furnished Material, Deduct	-1,641.49	
22 11 19 00-0290	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) 2,126.36		230.06
			For Work In Restricted Working Space, Add	90.74	
			For Owner Furnished Material, Deduct	-1,823.88	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0291	EA	4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,460.34 136.25 -2,006.19	340.82
22 11 19 00-0292	EA	6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,125.29 270.04 -3,225.17	498.28
22 11 19 00-0293	EA	8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,816.88 405.05 -6,466.70	747.41
22 11 19 00-0294	EA	10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	8,858.67 482.21 -7,251.32	884.04
22 11 19 00-0295 N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0249)				
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).				
22 11 19 00-0296	EA	2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,488.25 81.79 -2,215.61	204.50
22 11 19 00-0297	EA	3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,694.81 90.74 -2,392.33	230.06
22 11 19 00-0298	EA	4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,443.92 136.25 -2,989.77	340.82
22 11 19 00-0299	EA	6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,778.89 270.04 -4,878.77	498.28
22 11 19 00-0300	EA	8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	10,215.56 405.05 -8,865.38	747.41
22 11 19 00-0301	EA	10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,209.98 482.21 -10,602.63	884.04
22 11 19 00-0302 Double Check Valve Assemblies With Butterfly Shut-Off Valves (22 11 19 00-0249)				
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).				
22 11 19 00-0303	EA	2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,208.91 81.79 -1,936.27	204.50
22 11 19 00-0304	EA	3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,415.47 90.74 -2,112.99	230.06
22 11 19 00-0305	EA	4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,743.85 136.25 -2,289.70	340.82
22 11 19 00-0306	EA	6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,388.79 270.04 -3,488.67	498.28
22 11 19 00-0307	EA	8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	8,077.14 405.05 -6,726.96	747.41
22 11 19 00-0308 N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs (22 11 19 00-0249)				
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).				
22 11 19 00-0309	EA	2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,835.58 81.79 -2,562.94	204.50
22 11 19 00-0310	EA	3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,042.13 90.74 -2,739.65	230.06
22 11 19 00-0311	EA	4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,791.03 136.25 -3,336.88	340.82
22 11 19 00-0312	EA	6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,141.84 270.04 -5,241.72	498.28
22 11 19 00-0313	EA	8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	8,077.14 405.05 -6,726.96	747.41
22 11 19 00-0314 Grooved Double Check Valve Assemblies (22 11 19 00-0233)				
22 11 19 00-0315 Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0314)				
Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).				



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22 11 19 00-0316	EA	2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....	1,914.13	109.06
		For Work In Restricted Working Space, Add	81.79	
		For Owner Furnished Material, Deduct	-1,641.49	
22 11 19 00-0317	EA	3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....	2,126.36	120.99
		For Work In Restricted Working Space, Add	90.74	
		For Owner Furnished Material, Deduct	-1,823.88	
22 11 19 00-0318		N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0314) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0319	EA	2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)	2,488.25	109.06
		For Work In Restricted Working Space, Add	81.79	
		For Owner Furnished Material, Deduct	-2,215.61	
22 11 19 00-0320	EA	3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)	2,694.81	120.99
		For Work In Restricted Working Space, Add	90.74	
		For Owner Furnished Material, Deduct	-2,392.33	
22 11 19 00-0321		Reduced Pressure Zone Backflow Preventer Assemblies (22 11 19 00-0322)		
22 11 19 00-0322		Threaded Reduced Pressure Zone Assemblies (22 11 19 00-0321)		
22 11 19 00-0323		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0322) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0324	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	187.25	21.48
		For Work In Restricted Working Space, Add	16.11	
		For Owner Furnished Material, Deduct	-133.56	
22 11 19 00-0325	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	199.29	23.70
		For Work In Restricted Working Space, Add	17.77	
		For Owner Furnished Material, Deduct	-140.05	
22 11 19 00-0326	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	227.92	24.81
		For Work In Restricted Working Space, Add	18.61	
		For Owner Furnished Material, Deduct	-165.90	
22 11 19 00-0327	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	308.89	35.18
		For Work In Restricted Working Space, Add	26.38	
		For Owner Furnished Material, Deduct	-220.95	
22 11 19 00-0328	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	368.31	42.95
		For Work In Restricted Working Space, Add	32.21	
		For Owner Furnished Material, Deduct	-260.93	
22 11 19 00-0329	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	534.30	49.99
		For Work In Restricted Working Space, Add	37.49	
		For Owner Furnished Material, Deduct	-409.33	
22 11 19 00-0330	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	571.13	57.39
		For Work In Restricted Working Space, Add	42.77	
		For Owner Furnished Material, Deduct	-428.58	
22 11 19 00-0331	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	693.72	74.06
		For Work In Restricted Working Space, Add	55.54	
		For Owner Furnished Material, Deduct	-508.58	
22 11 19 00-0332		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0322) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0333	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	203.42	21.48
		For Work In Restricted Working Space, Add	16.11	
		For Owner Furnished Material, Deduct	-149.73	
22 11 19 00-0334	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	216.33	23.70
		For Work In Restricted Working Space, Add	17.77	
		For Owner Furnished Material, Deduct	-157.09	
22 11 19 00-0335	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	251.27	35.18
		For Work In Restricted Working Space, Add	18.61	
		For Owner Furnished Material, Deduct	-189.25	
22 11 19 00-0336	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	345.59	35.18
		For Work In Restricted Working Space, Add	26.38	
		For Owner Furnished Material, Deduct	-257.65	
22 11 19 00-0337	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	414.20	42.95
		For Work In Restricted Working Space, Add	32.21	
		For Owner Furnished Material, Deduct	-306.82	
22 11 19 00-0338	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	596.88	49.99
		For Work In Restricted Working Space, Add	37.49	
		For Owner Furnished Material, Deduct	-471.91	
22 11 19 00-0339	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	659.44	57.39
		For Work In Restricted Working Space, Add	42.77	
		For Owner Furnished Material, Deduct	-516.89	

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22 11 19 00-0340	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	802.07	74.06
		For Work In Restricted Working Space, Add	55.54	
		For Owner Furnished Material, Deduct	-616.93	
22 11 19 00-0341 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0322)				
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).				
22 11 19 00-0342	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	308.89	35.18
		For Work In Restricted Working Space, Add	26.38	
		For Owner Furnished Material, Deduct	-220.95	
22 11 19 00-0343	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	368.31	42.95
		For Work In Restricted Working Space, Add	32.21	
		For Owner Furnished Material, Deduct	-260.93	
22 11 19 00-0344	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	534.30	49.99
		For Work In Restricted Working Space, Add	37.49	
		For Owner Furnished Material, Deduct	-409.33	
22 11 19 00-0345	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	571.13	57.39
		For Work In Restricted Working Space, Add	42.77	
		For Owner Furnished Material, Deduct	-428.58	
22 11 19 00-0346	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	693.72	74.06
		For Work In Restricted Working Space, Add	55.54	
		For Owner Furnished Material, Deduct	-508.58	
22 11 19 00-0347 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0322)				
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).				
22 11 19 00-0348	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	345.59	35.18
		For Work In Restricted Working Space, Add	26.38	
		For Owner Furnished Material, Deduct	-257.65	
22 11 19 00-0349	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	414.20	42.95
		For Work In Restricted Working Space, Add	32.21	
		For Owner Furnished Material, Deduct	-306.82	
22 11 19 00-0350	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	596.88	49.99
		For Work In Restricted Working Space, Add	37.49	
		For Owner Furnished Material, Deduct	-471.91	
22 11 19 00-0351	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	659.44	57.39
		For Work In Restricted Working Space, Add	42.77	
		For Owner Furnished Material, Deduct	-516.89	
22 11 19 00-0352	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	802.07	74.06
		For Work In Restricted Working Space, Add	55.54	
		For Owner Furnished Material, Deduct	-616.93	
22 11 19 00-0353 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0322)				
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).				
22 11 19 00-0354	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	581.46	35.18
		For Work In Restricted Working Space, Add	26.38	
		For Owner Furnished Material, Deduct	-493.52	
22 11 19 00-0355	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	690.22	42.95
		For Work In Restricted Working Space, Add	32.21	
		For Owner Furnished Material, Deduct	-582.84	
22 11 19 00-0356	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	1,038.07	49.99
		For Work In Restricted Working Space, Add	37.49	
		For Owner Furnished Material, Deduct	-913.10	
22 11 19 00-0357	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	1,126.69	57.39
		For Work In Restricted Working Space, Add	42.77	
		For Owner Furnished Material, Deduct	-984.14	
22 11 19 00-0358	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	1,318.83	74.06
		For Work In Restricted Working Space, Add	55.54	
		For Owner Furnished Material, Deduct	-1,133.69	
22 11 19 00-0359 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0322)				
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).				
22 11 19 00-0360	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	764.92	35.18
		For Work In Restricted Working Space, Add	26.38	
		For Owner Furnished Material, Deduct	-676.98	
22 11 19 00-0361	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	910.98	42.95
		For Work In Restricted Working Space, Add	32.21	
		For Owner Furnished Material, Deduct	-803.60	



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22 11 19 00-0362	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	1,365.76	49.99
		For Work In Restricted Working Space, Add	37.49	
		For Owner Furnished Material, Deduct	-1,240.79	
22 11 19 00-0363	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	1,495.51	57.39
		For Work In Restricted Working Space, Add	42.77	
		For Owner Furnished Material, Deduct	-1,352.96	
22 11 19 00-0364	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	1,785.86	74.06
		For Work In Restricted Working Space, Add	55.54	
		For Owner Furnished Material, Deduct	-1,600.72	
22 11 19 00-0365		Flanged Reduced Pressure Zone Assemblies (22 11 19 00-0321)		
22 11 19 00-0366		Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0365)		
		Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0367	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	2,902.13	204.50
		For Work In Restricted Working Space, Add	81.80	
		For Owner Furnished Material, Deduct	-2,629.47	
22 11 19 00-0368	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	3,268.45	230.06
		For Work In Restricted Working Space, Add	90.74	
		For Owner Furnished Material, Deduct	-2,965.97	
22 11 19 00-0369		Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer (22 11 19 00-0365)		
		Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0370	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	3,441.40	204.50
		For Work In Restricted Working Space, Add	81.80	
		For Owner Furnished Material, Deduct	-3,168.74	
22 11 19 00-0371	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	3,894.93	230.06
		For Work In Restricted Working Space, Add	90.74	
		For Owner Furnished Material, Deduct	-3,592.45	
22 11 19 00-0372		Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0365)		
		Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0373	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	3,108.54	204.50
		For Work In Restricted Working Space, Add	81.80	
		For Owner Furnished Material, Deduct	-2,835.88	
22 11 19 00-0374	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	3,611.49	230.06
		For Work In Restricted Working Space, Add	90.74	
		For Owner Furnished Material, Deduct	-3,309.01	
22 11 19 00-0375		Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer (22 11 19 00-0365)		
		Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0376	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	3,441.40	204.50
		For Work In Restricted Working Space, Add	81.80	
		For Owner Furnished Material, Deduct	-3,168.74	
22 11 19 00-0377	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	3,894.93	230.06
		For Work In Restricted Working Space, Add	90.74	
		For Owner Furnished Material, Deduct	-3,592.45	
22 11 19 00-0378		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0365)		
		Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0379	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	3,809.87	204.50
		For Work In Restricted Working Space, Add	81.80	
		For Owner Furnished Material, Deduct	-3,537.21	
22 11 19 00-0380	EA	3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	4,404.40	230.06
		For Work In Restricted Working Space, Add	90.74	
		For Owner Furnished Material, Deduct	-4,101.92	
22 11 19 00-0381		Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0365)		
		Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0382 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	4,916.01	204.50
For Work In Restricted Working Space, Add	81.79	
For Owner Furnished Material, Deduct	-4,643.37	
22 11 19 00-0383 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	5,582.51	230.06
For Work In Restricted Working Space, Add	90.75	
For Owner Furnished Material, Deduct	-5,280.02	
22 11 19 00-0384 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	7,054.76	340.82
For Work In Restricted Working Space, Add	136.26	
For Owner Furnished Material, Deduct	-6,600.57	
22 11 19 00-0385 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	10,850.65	498.28
For Work In Restricted Working Space, Add	378.07	
For Owner Furnished Material, Deduct	-9,590.41	
22 11 19 00-0386 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	17,929.01	747.41
For Work In Restricted Working Space, Add	567.11	
For Owner Furnished Material, Deduct	-16,038.65	
22 11 19 00-0387 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	22,850.18	884.04
For Work In Restricted Working Space, Add	482.21	
For Owner Furnished Material, Deduct	-21,242.83	
22 11 19 00-0388 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer (22 11 19 00-0365)		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0389 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	5,290.29	204.50
For Work In Restricted Working Space, Add	81.79	
For Owner Furnished Material, Deduct	-5,017.65	
22 11 19 00-0390 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	5,976.41	230.06
For Work In Restricted Working Space, Add	90.74	
For Owner Furnished Material, Deduct	-5,673.93	
22 11 19 00-0391 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	7,658.67	340.82
For Work In Restricted Working Space, Add	136.25	
For Owner Furnished Material, Deduct	-7,204.52	
22 11 19 00-0392 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	11,627.32	498.28
For Work In Restricted Working Space, Add	270.04	
For Owner Furnished Material, Deduct	-10,727.20	
22 11 19 00-0393 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	18,792.31	747.41
For Work In Restricted Working Space, Add	405.05	
For Owner Furnished Material, Deduct	-17,442.13	
22 11 19 00-0394 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	25,426.95	884.04
For Work In Restricted Working Space, Add	482.21	
For Owner Furnished Material, Deduct	-23,819.60	
22 11 19 00-0395 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0365)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0396 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	5,224.16	204.50
For Work In Restricted Working Space, Add	81.79	
For Owner Furnished Material, Deduct	-4,951.52	
22 11 19 00-0397 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	5,935.72	230.06
For Work In Restricted Working Space, Add	90.75	
For Owner Furnished Material, Deduct	-5,633.23	
22 11 19 00-0398 EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	7,493.73	340.82
For Work In Restricted Working Space, Add	136.26	
For Owner Furnished Material, Deduct	-7,039.54	
22 11 19 00-0399 EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	11,130.44	498.28
For Work In Restricted Working Space, Add	270.04	
For Owner Furnished Material, Deduct	-10,230.32	
22 11 19 00-0400 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	18,458.57	747.41
For Work In Restricted Working Space, Add	405.05	
For Owner Furnished Material, Deduct	-17,108.39	
22 11 19 00-0401 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	24,265.58	884.04
For Work In Restricted Working Space, Add	482.21	
For Owner Furnished Material, Deduct	-22,658.23	
22 11 19 00-0402 Double Check Detector Assemblies (22 11 19 00-0232)		
22 11 19 00-0403 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0402)		



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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0404 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0403) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).			
22 11 19 00-0405 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	3,953.11	230.06	
For Work In Restricted Working Space, Add	90.74		
For Owner Furnished Material, Deduct	-3,650.63		
22 11 19 00-0406 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	4,189.48	340.82	
For Work In Restricted Working Space, Add	136.25		
For Owner Furnished Material, Deduct	-3,735.33		
22 11 19 00-0407 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	5,750.58	498.28	
For Work In Restricted Working Space, Add	270.04		
For Owner Furnished Material, Deduct	-4,850.46		
22 11 19 00-0408 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	10,117.67	747.41	
For Work In Restricted Working Space, Add	405.05		
For Owner Furnished Material, Deduct	-8,767.49		
22 11 19 00-0409 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	13,589.54	884.04	
For Work In Restricted Working Space, Add	482.21		
For Owner Furnished Material, Deduct	-11,982.19		
22 11 19 00-0410 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0403) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).			
22 11 19 00-0411 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	2,977.17	204.50	
For Work In Restricted Working Space, Add	81.80		
For Owner Furnished Material, Deduct	-2,704.51		
22 11 19 00-0412 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	3,183.53	230.06	
For Work In Restricted Working Space, Add	90.74		
For Owner Furnished Material, Deduct	-2,881.05		
22 11 19 00-0413 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	3,516.09	340.82	
For Work In Restricted Working Space, Add	136.25		
For Owner Furnished Material, Deduct	-3,061.94		
22 11 19 00-0414 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	4,876.02	498.28	
For Work In Restricted Working Space, Add	270.04		
For Owner Furnished Material, Deduct	-3,975.90		
22 11 19 00-0415 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	8,536.97	747.41	
For Work In Restricted Working Space, Add	405.05		
For Owner Furnished Material, Deduct	-7,186.79		
22 11 19 00-0416 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	10,072.43	884.04	
For Work In Restricted Working Space, Add	482.21		
For Owner Furnished Material, Deduct	-8,465.08		
22 11 19 00-0417 Double Check Detector Assembly With Butterfly Valves And Meter (22 11 19 00-0403) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).			
22 11 19 00-0418 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	3,147.35	204.50	
For Work In Restricted Working Space, Add	81.80		
For Owner Furnished Material, Deduct	-2,874.69		
22 11 19 00-0419 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	3,353.70	230.06	
For Work In Restricted Working Space, Add	90.74		
For Owner Furnished Material, Deduct	-3,051.22		
22 11 19 00-0420 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	3,686.23	340.82	
For Work In Restricted Working Space, Add	136.25		
For Owner Furnished Material, Deduct	-3,232.08		
22 11 19 00-0421 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	5,050.44	498.28	
For Work In Restricted Working Space, Add	270.04		
For Owner Furnished Material, Deduct	-4,150.32		
22 11 19 00-0422 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	8,327.69	747.41	
For Work In Restricted Working Space, Add	405.05		
For Owner Furnished Material, Deduct	-6,977.51		
22 11 19 00-0423 Flanged Double Check Detector Assemblies Without Meter (22 11 19 00-0402)			
22 11 19 00-0424 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter (22 11 19 00-0423) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).			



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0425	EA	2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	2,923.44	204.50
		<i>For Work In Restricted Working Space, Add</i>	81.80	
22 11 19 00-0426	EA	3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	3,129.82	230.06
		<i>For Work In Restricted Working Space, Add</i>	90.74	
22 11 19 00-0427	EA	4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	3,462.38	340.82
		<i>For Work In Restricted Working Space, Add</i>	136.25	
22 11 19 00-0428	EA	6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	4,822.31	498.28
		<i>For Work In Restricted Working Space, Add</i>	270.04	
22 11 19 00-0429	EA	8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	8,483.29	747.41
		<i>For Work In Restricted Working Space, Add</i>	405.05	
22 11 19 00-0430	EA	10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	10,018.68	884.04
		<i>For Work In Restricted Working Space, Add</i>	482.21	
22 11 19 00-0431		Double Check Detector Assembly With Butterfly Valves Less Meter (22 11 19 00-0423) Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0432	EA	2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	3,093.60	204.50
		<i>For Work In Restricted Working Space, Add</i>	81.80	
22 11 19 00-0433	EA	3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	3,299.95	230.06
		<i>For Work In Restricted Working Space, Add</i>	90.74	
22 11 19 00-0434	EA	4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	3,632.52	340.82
		<i>For Work In Restricted Working Space, Add</i>	136.25	
22 11 19 00-0435	EA	6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	4,996.70	498.28
		<i>For Work In Restricted Working Space, Add</i>	270.04	
22 11 19 00-0436	EA	8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	8,657.72	747.41
		<i>For Work In Restricted Working Space, Add</i>	405.05	
22 11 19 00-0437		Backflow Preventer Accessories (22 11 19 00-0232)		
22 11 19 00-0438		Air Gap (22 11 19 00-0437)		
22 11 19 00-0439	EA	Up To 1" Diameter Air Gap For Backflow Preventer	53.70	11.57
22 11 19 00-0440	EA	1-1/4" To 2" Diameter Air Gap For Backflow Preventer	65.66	13.88
22 11 19 00-0441	EA	2-1/2" To 3" Diameter Air Gap For Backflow Preventer	114.15	18.51
22 11 19 00-0442	EA	4" To 6" Diameter Air Gap For Backflow Preventer	220.67	32.40
22 11 19 00-0443	EA	8" To 10" Diameter Air Gap For Backflow Preventer	248.45	46.28
22 11 19 00-0444		Brass Test Cocks (22 11 19 00-0437)		
22 11 19 00-0445	EA	1/8" Or 1/4" Brass Test Cock	21.75	4.63
22 11 19 00-0446		Backflow Valve Enclosures (22 11 19 00-0232)		
22 11 19 00-0447		Flip-Top, Insulated Fiberglass Valve Enclosures (22 11 19 00-0446) Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0448	EA	19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	773.82	83.31
		<i>For Heated Enclosure, Add</i>	95.25	
22 11 19 00-0449	EA	27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	951.49	83.31
		<i>For Heated Enclosure, Add</i>	121.90	
22 11 19 00-0450	EA	27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,206.19	76.69
		<i>For Heated Enclosure, Add</i>	161.76	
22 11 19 00-0451	EA	33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,253.42	102.25
		<i>For Heated Enclosure, Add</i>	162.45	
22 11 19 00-0452	EA	39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,313.67	102.25
		<i>For Heated Enclosure, Add</i>	171.49	
22 11 19 00-0453	EA	47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,548.51	102.25
		<i>For Heated Enclosure, Add</i>	206.72	
22 11 19 00-0454	EA	39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,554.69	102.25
		<i>For Heated Enclosure, Add</i>	207.64	
22 11 19 00-0455	EA	47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,954.83	102.25
		<i>For Heated Enclosure, Add</i>	267.66	
22 11 19 00-0456	EA	70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,502.69	153.37
		<i>For Heated Enclosure, Add</i>	637.06	
22 11 19 00-0457	EA	83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	6,521.94	153.37
		<i>For Heated Enclosure, Add</i>	939.95	
22 11 19 00-0458	EA	70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	6,197.50	153.37
		<i>For Heated Enclosure, Add</i>	891.28	
22 11 19 00-0459	EA	83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	7,462.15	178.93
		<i>For Heated Enclosure, Add</i>	1,074.59	
22 11 19 00-0460		One-Piece Drop Over, Insulated Fiberglass Valve Enclosures (22 11 19 00-0446) Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0461	EA		20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	423.27	22.21
			For Heated Enclosure, Add	77.25	
22 11 19 00-0462	EA		27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	587.03	22.21
			For Heated Enclosure, Add	110.00	
22 11 19 00-0463	EA		38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	735.50	20.45
			For Heated Enclosure, Add	140.28	
22 11 19 00-0464	EA		47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	1,109.38	20.45
			For Heated Enclosure, Add	215.06	
22 11 19 00-0465	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	2,869.54	38.34
			For Heated Enclosure, Add	561.13	
22 11 19 00-0466	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	3,915.47	38.34
			For Heated Enclosure, Add	770.31	
22 11 19 00-0467	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	2,609.99	38.34
			For Heated Enclosure, Add	509.22	
22 11 19 00-0468	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	2,952.97	38.34
			For Heated Enclosure, Add	577.81	
22 11 19 00-0469	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	4,616.88	38.34
			For Heated Enclosure, Add	910.59	
22 11 19 00-0470 Sectional, Insulated Aluminum Valve Enclosures (22 11 19 00-0446)					
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.					
22 11 19 00-0471	EA		70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	5,858.07	166.62
			For Heated Enclosure, Add	837.05	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0472	EA		83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	6,455.97	166.62
			For Heated Enclosure, Add	926.74	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0473	EA		53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	4,575.30	153.37
			For Heated Enclosure, Add	647.95	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0474	EA		53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	5,017.16	153.37
			For Heated Enclosure, Add	714.23	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0475	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	5,839.30	204.50
			For Heated Enclosure, Add	824.77	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0476	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,546.88	204.50
			For Heated Enclosure, Add	930.91	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0477	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,546.88	204.50
			For Heated Enclosure, Add	930.91	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0478	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,232.84	204.50
			For Heated Enclosure, Add	1,033.80	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0479	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	5,432.09	178.93
			For Heated Enclosure, Add	770.08	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0480	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	6,359.95	204.50
			For Heated Enclosure, Add	902.87	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0481	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	7,430.60	204.50
			For Heated Enclosure, Add	1,063.47	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0482	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	8,156.40	217.28
			For Heated Enclosure, Add	1,169.14	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0483	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	8,365.35	236.05
			For Heated Enclosure, Add	1,195.79	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0484	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	9,272.20	249.93
			For Heated Enclosure, Add	1,328.35	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0485	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure	9,592.87	230.06
			For Heated Enclosure, Add	1,381.42	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0486	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	6,967.11	204.50
			For Heated Enclosure, Add	993.94	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0487	EA		72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure	7,425.96	204.50
			For Heated Enclosure, Add	1,062.77	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0488	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	8,402.05	217.28
			For Heated Enclosure, Add	1,205.99	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0489	EA		72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure	10,181.49	230.06
			For Heated Enclosure, Add	1,469.71	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0490	EA		118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure	8,885.28	102.25
			For Heated Enclosure, Add	1,275.28	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0491	EA		142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure	10,675.56	102.25
			For Heated Enclosure, Add	1,540.62	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0492	EA		118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure	10,321.76	153.37
			For Heated Enclosure, Add	1,487.55	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0493	EA		142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure	11,975.75	153.37
			For Heated Enclosure, Add	1,729.26	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0494	EA		142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure	11,050.65	153.37
			For Heated Enclosure, Add	1,593.69	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0495	EA		172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure	12,914.75	178.93
			For Heated Enclosure, Add	1,866.92	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0496	EA		142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure	12,957.35	153.37
			For Heated Enclosure, Add	1,866.92	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0497	EA		172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure	15,371.45	153.37
			For Heated Enclosure, Add	2,222.64	
			For One 24" Fluorescent Light Fixture, Add	453.30	
			For Two 24" Fluorescent Light Fixture, Add	811.18	
22 11 19 00-0498			Faucets (Hose Bibbs) (22 11 19)		
22 11 19 00-0499			Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends (22 11 19 00-0498)		
22 11 19 00-0500	EA		1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	45.59	9.25
22 11 19 00-0501	EA		3/4" Faucet, Bronze Garden Hose Valve With Screwed Ends, 125#	53.34	10.18
22 11 19 00-0502	EA		3/4" Hose Valve With Screwed Ends And Vacuum Breaker, 125#	16.35	6.94
22 11 19 00-0503			Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0498)		
22 11 19 00-0504	EA		3/4" Hose Valve With Screwed Ends; Chicago Faucets #387-CP	114.75	28.33
22 11 19 00-0505			Antisiphon Freezeless Wall Faucet (22 11 19 00-0498)		
22 11 19 00-0506	EA		4" Long, 1/2" Antisiphon Freezeless Wall Faucet	113.11	23.14
22 11 19 00-0507	EA		6" Long, 1/2" Antisiphon Freezeless Wall Faucet	122.50	25.64
22 11 19 00-0508	EA		8" Long, 1/2" Antisiphon Freezeless Wall Faucet	129.56	27.12
22 11 19 00-0509	EA		10" Long, 1/2" Antisiphon Freezeless Wall Faucet	136.61	29.06
22 11 19 00-0510	EA		12" Long, 1/2" Antisiphon Freezeless Wall Faucet	143.77	30.82
22 11 19 00-0511			Keyed, Recessed Valve Boxes (22 11 19)		
22 11 19 00-0512	EA		8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box	217.33	27.69
22 11 19 00-0513	EA		8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box	240.47	27.69
22 11 19 00-0514	EA		8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box	275.17	27.69
22 11 19 00-0515	EA		12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box	270.49	36.93
22 11 19 00-0516	EA		12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box	305.20	36.93
22 11 19 00-0517	EA		12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box	315.61	36.93
22 11 19 00-0518	EA		8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box	254.35	27.69
22 11 19 00-0519	EA		8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box	305.25	27.69
22 11 19 00-0520	EA		8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box	350.36	27.69
22 11 19 00-0521	EA		12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box	335.28	36.93
22 11 19 00-0522	EA		12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box	380.39	36.93
22 11 19 00-0523	EA		12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box	397.74	36.93

22 11 23 Domestic Water Pumps (22 11)



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13			Domestic Water Packaged Booster Pumps And Tanks (22 11 23)		
Note: Includes motor starter and controls.					
22 11 23 13-0001			Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)		
22 11 23 13-0002	EA		1 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	4,329.47	272.66
22 11 23 13-0003	EA		1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	4,619.48	366.38
22 11 23 13-0004	EA		2 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	4,937.33	460.11
22 11 23 13-0005	EA		3 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	5,241.26	553.83
22 11 23 13-0006	EA		5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	5,851.50	647.57
22 11 23 13-0007	EA		7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	6,531.35	741.29
22 11 23 13-0008	EA		10 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	7,044.13	835.02
22 11 23 13-0009			Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0010	EA		100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	12,184.89	1,103.47
22 11 23 13-0011	EA		200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	14,452.01	1,172.44
22 11 23 13-0012	EA		300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	16,728.03	1,241.40
22 11 23 13-0013			Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0014	EA		200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	15,638.95	1,172.44
22 11 23 13-0015	EA		300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	19,158.81	1,241.40
22 11 23 13-0016	EA		500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	23,578.90	1,379.33
22 11 23 13-0017	EA		750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	29,542.18	1,517.27
22 11 23 13-0018	EA		1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	35,505.47	1,655.20
22 11 23 13-0019	EA		1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	41,268.38	1,862.10
22 11 23 13-0020	EA		2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	47,031.30	2,069.00
22 11 23 13-0021	EA		3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	52,794.22	2,275.90
22 11 23 13-0022	EA		5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	58,729.54	2,551.76
22 11 23 23			Domestic-Water In-Line Pumps (22 11 23)		
22 11 23 23-0001			Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.					
22 11 23 23-0002	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B)	693.85	153.37
22 11 23 23-0003	EA		1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....	710.01	153.37
22 11 23 23-0004	EA		1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B)	740.87	156.35
22 11 23 23-0005	EA		1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B)	811.27	162.74
22 11 23 23-0006	EA		1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....	1,387.38	168.79
22 11 23 23-0007	EA		1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....	1,473.84	168.79
22 11 23 23-0008	EA		1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB)	2,166.70	185.84
22 11 23 23-0009	EA		1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB)	2,265.06	204.16
22 11 23 23-0010	EA		1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB)	2,730.08	224.62
22 11 23 23-0011	EA		1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	2,799.90	247.21
22 11 23 23-0012	EA		3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	3,062.60	271.51
22 11 23 23-0013	EA		1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	4,339.86	298.79
22 11 23 23-0014	EA		1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S)	4,982.65	313.27
22 11 23 23-0015			Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.					
22 11 23 23-0016	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	719.23	153.37
22 11 23 23-0017	EA		1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36).....	1,147.01	153.37
22 11 23 23-0018	EA		1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	1,153.17	156.35
22 11 23 23-0019	EA		1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	1,173.50	159.76
22 11 23 23-0020	EA		1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	1,179.45	162.74
22 11 23 23-0021	EA		1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	1,203.29	168.79
22 11 23 23-0022	EA		1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....	1,459.75	185.84
22 11 23 23-0023	EA		1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30)	1,875.29	224.62
22 11 23 23-0024	EA		1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	1,981.31	247.21
22 11 23 23-0025	EA		3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	2,303.19	271.51
22 11 23 23-0026	EA		1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	3,071.90	298.79
22 11 23 23-0027	EA		1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	3,572.27	313.27
22 11 23 23-0028	EA		2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,232.68	329.05
22 11 23 23-0029	EA		3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,479.48	361.69
22 11 23 23-0030	EA		5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,822.70	383.60
22 11 23 23-0031	EA		7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	4,801.30	426.23
22 11 23 23-0032	EA		10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	5,124.88	511.56
22 11 23 23-0033	EA		15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	6,507.27	596.98
22 12			Facility Potable-Water Storage Tanks (22 10)		
22 12 19			Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)		
22 12 19 00-0001			Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)		
22 12 19 00-0002	EA		5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	26,732.24	7,340.36
22 12 19 00-0003	EA		10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	29,801.96	7,340.36
22 12 19 00-0004	EA		20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	52,670.53	11,327.74

22 Plumbing**22 10 Plumbing Piping****22 12 Facility Potable-Water Storage Tanks**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 19 00-0005	EA	35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	68,017.25	14,680.72
22 12 19 00-0006		Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)		
22 12 19 00-0007	EA	5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	31,279.98	7,340.36
22 12 19 00-0008	EA	10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	41,967.18	7,340.36
22 12 19 00-0009	EA	20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	62,845.07	11,327.74
22 12 19 00-0010	EA	35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	89,126.43	14,680.72
22 12 23		Facility Indoor Potable-Water Storage Tanks (22 12)		
22 12 23 13		Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)		
22 12 23 13-0001		Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)		
22 12 23 13-0002	EA	80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....	1,970.87	340.82
22 12 23 13-0003	EA	119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	2,441.80	426.03
22 12 23 13-0004	EA	140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	4,493.61	468.63
22 12 23 13-0005	EA	200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	4,969.13	511.23
22 12 23 13-0006	EA	250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	9,851.54	553.83
22 12 23 13-0007	EA	350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	8,493.71	596.44
22 12 23 13-0008	EA	400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	14,564.26	639.04
22 12 23 13-0009	EA	500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	13,425.30	681.64
22 12 23 13-0010	EA	750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	14,583.91	724.24
22 12 23 13-0011	EA	1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	17,372.56	766.85
22 12 23 13-0012		Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)		
22 12 23 13-0013	EA	80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	1,688.65	340.82
22 12 23 13-0014	EA	120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	3,236.70	426.03
22 12 23 13-0015	EA	140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A).....	4,044.76	468.63
22 12 23 13-0016	EA	200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	4,996.92	511.23
22 12 23 13-0017	EA	200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A).....	4,247.01	511.23
22 12 23 13-0018	EA	250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A).....	6,558.37	553.83
22 12 23 13-0019	EA	325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A).....	7,097.80	596.44
22 12 23 13-0020	EA	350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	6,757.13	596.44
22 12 23 13-0021	EA	350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A).....	6,167.82	596.44
22 12 23 13-0022	EA	400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A).....	8,432.16	639.04
22 12 23 13-0023	EA	500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A).....	9,146.82	681.64
22 12 23 13-0024	EA	750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A).....	10,616.64	724.24
22 12 23 13-0025	EA	1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A).....	19,895.90	766.85
22 12 23 26		Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)		
22 12 23 26-0001		Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)		
Note: Excludes excavation and backfill.				
22 12 23 26-0002	EA	100 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	477.06	191.72
		For Saddle Assembly, Add.....	524.97	
22 12 23 26-0003	EA	150 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	558.51	223.67
		For Saddle Assembly, Add.....	524.97	
22 12 23 26-0004	EA	200 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	659.38	255.62
		For Saddle Assembly, Add.....	591.02	
22 12 23 26-0005	EA	300 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	795.23	287.57
		For Saddle Assembly, Add.....	848.73	
22 12 23 26-0006	EA	335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	945.32	319.52
		For Two Tie Down Bands, Add.....	307.66	
22 12 23 26-0007	EA	535 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,217.70	426.76
		For Two Tie Down Bands, Add.....	325.79	
22 12 23 26-0008	EA	1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,775.22	497.90
		For Three Tie Down Bands, Add.....	546.96	
22 12 23 26-0009	EA	1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	2,513.45	569.02
		For Three Tie Down Bands, Add.....	550.85	
22 12 23 26-0010	EA	1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	3,114.64	640.15
		For Four Tie Down Bands, Add.....	744.82	
22 12 23 26-0011	EA	2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	3,636.13	711.27
		For Four Tie Down Bands, Add.....	1,009.00	
22 12 23 26-0012	EA	2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	5,122.54	782.41
		For Four Tie Down Bands, Add.....	1,299.09	
22 12 23 26-0013	EA	3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	5,916.69	853.53
		For Four Tie Down Bands, Add.....	1,397.51	
22 12 23 26-0014	EA	4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	8,470.51	1,138.04
		For Four Tie Down Bands, Add.....	1,568.46	
22 12 23 26-0015	EA	5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	10,850.66	1,138.04
		For Five Tie Down Bands, Add.....	2,433.26	



		Plumbing	22
		Plumbing Piping	22 10
		Facility Potable-Water Storage Tanks	22 12

22

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)					
22 12 23 26-0017	EA	100 Gallon Vertical Non-Pressurized Polyethylene Tank	536.36		255.62
22 12 23 26-0018	EA	160 Gallon Vertical Non-Pressurized Polyethylene Tank	634.07		271.59
22 12 23 26-0019	EA	210 Gallon Vertical Non-Pressurized Polyethylene Tank	692.92		287.57
22 12 23 26-0020	EA	300 Gallon Vertical Non-Pressurized Polyethylene Tank	830.07		319.52
22 12 23 26-0021	EA	405 Gallon Vertical Non-Pressurized Polyethylene Tank	952.82		383.42
22 12 23 26-0022	EA	500 Gallon Vertical Non-Pressurized Polyethylene Tank	1,123.50		447.33
22 12 23 26-0023	EA	800 Gallon Vertical Non-Pressurized Polyethylene Tank	1,540.89		569.02
22 12 23 26-0024	EA	1,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,986.97		711.27
22 12 23 26-0025	EA	2,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	2,637.67		853.53
22 12 23 26-0026	EA	3,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	3,410.11		995.78
22 12 23 26-0027	EA	4,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	4,911.65		1,138.04
22 12 23 26-0028	EA	5,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	6,566.00		1,280.29
22 12 23 26-0029	EA	6,250 Gallon Vertical Non-Pressurized Polyethylene Tank.....	7,434.27		1,422.55
22 12 23 26-0030	EA	7,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	8,191.17		1,564.80
22 12 23 26-0031	EA	8,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	9,406.51		1,707.06
22 12 23 26-0032	EA	9,150 Gallon Vertical Non-Pressurized Polyethylene Tank.....	10,599.82		1,849.32
22 12 23 26-0033	EA	10,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	13,023.43		1,991.58
22 12 23 26-0034	EA	12,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	15,630.23		2,276.09
22 13 Facility Sanitary Sewerage (22 10)					
22 13 16 Sanitary Waste And Vent Piping (22 13)					
22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)					
22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)					
Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.					
22 13 16 00-0003	LF	2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	23.56		5.36
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
3.94					
22 13 16 00-0004	LF	3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	33.45		8.09
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
5.34					
22 13 16 00-0005	LF	4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	43.34		10.31
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
6.87					
22 13 16 00-0006	LF	5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	49.86		12.54
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
7.05					
22 13 16 00-0007	LF	6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	58.20		13.66
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
7.84					
22 13 16 00-0008	LF	8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	91.16		19.42
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
11.00					
22 13 16 00-0009	LF	10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	130.92		19.42
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
12.45					
22 13 16 00-0010 Aboveground No Hub Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)					
Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
22 13 16 00-0011	LF	1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly	19.86		5.11
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
4.27					
22 13 16 00-0012	LF	2" Aboveground No Hub Cast Iron Soil Pipe Assembly	21.16		5.45
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
4.61					
22 13 16 00-0013	LF	3" Aboveground No Hub Cast Iron Soil Pipe Assembly	27.57		7.92
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
5.91					
22 13 16 00-0014	LF	4" Aboveground No Hub Cast Iron Soil Pipe Assembly	34.05		10.31
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
7.28					
22 13 16 00-0015	LF	5" Aboveground No Hub Cast Iron Soil Pipe Assembly	54.94		12.30
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
11.74					

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0016	LF	6" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	60.39 12.55	13.42
22 13 16 00-0017	LF	8" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	98.07 20.06	19.26
22 13 16 00-0018	LF	10" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	99.93 14.61	21.88
22 13 16 00-0019		Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020		Bell And Spigot Cast Iron Pipe (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF	2" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.47 3.51 0.41 2.43	5.36
22 13 16 00-0022	LF	3" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.16 5.03 0.61 3.65	8.09
22 13 16 00-0023	LF	4" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.07 6.54 0.77 4.65	10.31
22 13 16 00-0024	LF	5" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	40.75 9.24 0.94 5.63	12.54
22 13 16 00-0025	LF	6" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.24 11.25 1.02 6.14	13.66
22 13 16 00-0026	LF	8" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	70.79 17.49 1.46 8.74	19.42
22 13 16 00-0027	LF	10" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	102.13 29.12 1.64 9.84	21.88
22 13 16 00-0028	LF	12" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	144.43 42.31 2.19 13.11	29.18
22 13 16 00-0029	LF	15" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	199.67 61.83 2.62 15.74	34.99
22 13 16 00-0030		Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031		Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032	EA	2" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.37 13.21 1.83 10.99	24.46
22 13 16 00-0033	EA	3" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.60 26.79 2.30 13.82	30.76
22 13 16 00-0034	EA	4" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	163.34 35.71 3.07 18.39	40.90
22 13 16 00-0035	EA	6" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	251.31 60.13 3.98 23.85	53.04
22 13 16 00-0036	EA	8" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	485.62 134.11 5.12 30.74	68.35
22 13 16 00-0037	EA	10" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	661.27 187.31 6.30 37.83	84.09



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,010.37 292.04 8.80 52.79	117.35
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,858.80 564.83 12.25 73.50	163.42
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	64.41 9.72 1.83 10.99	24.46
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	105.89 20.94 2.30 13.82	30.76
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	144.54 29.13 3.07 18.39	40.90
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	211.50 50.38 3.38 20.27	45.09
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	254.89 61.38 3.98 23.85	53.04
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	413.57 108.89 5.12 30.74	68.35
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	599.80 165.80 6.30 37.83	84.09
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	987.44 284.01 8.80 52.79	117.35
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)		
22 13 16 00-0050 EA 2" Bell And Spigot Cast Iron 1/4 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	58.74 7.76 1.83 10.97	24.36
22 13 16 00-0051 EA 3" Bell And Spigot Cast Iron 1/4 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	85.47 15.51 2.06 12.35	27.43
22 13 16 00-0052 EA 4" Bell And Spigot Cast Iron 1/4 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	121.31 23.28 2.74 16.44	36.55
22 13 16 00-0053 EA 5" Bell And Spigot Cast Iron 1/4 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	149.67 31.27 3.02 18.10	40.26
22 13 16 00-0054 EA 6" Bell And Spigot Cast Iron 1/4 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	179.97 37.67 3.62 21.70	48.22
22 13 16 00-0055 EA 8" Bell And Spigot Cast Iron 1/4 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	361.42 93.48 4.72 28.30	62.94
22 13 16 00-0056 EA 10" Bell And Spigot Cast Iron 1/4 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	527.72 144.63 5.73 34.35	76.38
22 13 16 00-0057 EA 12" Bell And Spigot Cast Iron 1/4 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	692.37 195.02 6.76 40.55	90.15
22 13 16 00-0058 EA 15" Bell And Spigot Cast Iron 1/4 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,740.91 534.72 10.66 63.94	142.19
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)		

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0060 EA 2" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	54.35 6.20 1.83 10.99	24.46
22 13 16 00-0061 EA 3" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	82.59 12.79 2.30 13.82	30.76
22 13 16 00-0062 EA 4" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	116.74 19.40 3.07 18.39	40.90
22 13 16 00-0063 EA 5" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	145.42 24.47 3.78 22.66	50.39
22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	167.51 29.13 4.21 25.28	56.18
22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	321.31 72.89 5.65 33.91	75.40
22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	445.39 107.07 6.97 41.85	93.02
22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	710.13 185.26 9.04 54.24	120.64
22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,332.26 391.69 10.66 63.94	142.19
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)		
22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	98.96 5.96 4.10 24.58	54.62
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	121.59 11.17 4.48 26.91	59.82
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	159.96 14.86 5.88 35.25	78.39
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	200.79 24.76 6.50 39.01	86.72
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	249.99 33.55 7.71 46.24	102.79
22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	441.49 82.27 10.32 61.93	137.68
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	607.25 130.58 11.71 70.25	156.20
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	885.27 210.07 14.25 85.52	190.14
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,347.58 359.72 15.99 95.95	213.33
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	146.87 21.44 4.28 25.68	57.09



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0081	EA	4" x 2" Bell And Spigot Cast Iron Reducing Wye	.....	179.12	70.55
		For Extra Heavy Fittings, Add	.....	25.66	
		For Above Ground Cast Iron Pipe Installation, Add	.....	5.29	
		For Work In Restricted Working Space, Add	.....	31.75	
22 13 16 00-0082	EA	4" x 3" Bell And Spigot Cast Iron Reducing Wye	.....	197.75	72.34
		For Extra Heavy Fittings, Add	.....	31.23	
		For Above Ground Cast Iron Pipe Installation, Add	.....	5.43	
		For Work In Restricted Working Space, Add	.....	32.56	
22 13 16 00-0083	EA	6" x 2" Bell And Spigot Cast Iron Reducing Wye	.....	286.74	92.10
		For Extra Heavy Fittings, Add	.....	52.05	
		For Above Ground Cast Iron Pipe Installation, Add	.....	6.90	
		For Work In Restricted Working Space, Add	.....	41.41	
22 13 16 00-0084	EA	6" x 3" Bell And Spigot Cast Iron Reducing Wye	.....	293.97	93.79
		For Extra Heavy Fittings, Add	.....	53.67	
		For Above Ground Cast Iron Pipe Installation, Add	.....	7.03	
		For Work In Restricted Working Space, Add	.....	42.19	
22 13 16 00-0085	EA	6" x 4" Bell And Spigot Cast Iron Reducing Wye	.....	308.31	100.05
		For Extra Heavy Fittings, Add	.....	55.40	
		For Above Ground Cast Iron Pipe Installation, Add	.....	7.50	
		For Work In Restricted Working Space, Add	.....	45.01	
22 13 16 00-0086	EA	8" x 2" Bell And Spigot Cast Iron Reducing Wye	.....	441.83	110.72
		For Extra Heavy Fittings, Add	.....	96.55	
		For Above Ground Cast Iron Pipe Installation, Add	.....	8.30	
		For Work In Restricted Working Space, Add	.....	49.79	
22 13 16 00-0087	EA	8" x 3" Bell And Spigot Cast Iron Reducing Wye	.....	460.94	112.85
		For Extra Heavy Fittings, Add	.....	102.12	
		For Above Ground Cast Iron Pipe Installation, Add	.....	8.46	
		For Work In Restricted Working Space, Add	.....	50.75	
22 13 16 00-0088	EA	8" x 4" Bell And Spigot Cast Iron Reducing Wye	.....	472.88	118.18
		For Extra Heavy Fittings, Add	.....	103.49	
		For Above Ground Cast Iron Pipe Installation, Add	.....	8.86	
		For Work In Restricted Working Space, Add	.....	53.16	
22 13 16 00-0089	EA	8" x 6" Bell And Spigot Cast Iron Reducing Wye	.....	556.19	131.46
		For Extra Heavy Fittings, Add	.....	125.67	
		For Above Ground Cast Iron Pipe Installation, Add	.....	9.86	
		For Work In Restricted Working Space, Add	.....	59.14	
22 13 16 00-0090	EA	10" x 3" Bell And Spigot Cast Iron Reducing Wye	.....	673.71	123.18
		For Extra Heavy Fittings, Add	.....	171.16	
		For Above Ground Cast Iron Pipe Installation, Add	.....	9.23	
		For Work In Restricted Working Space, Add	.....	55.41	
22 13 16 00-0091	EA	10" x 4" Bell And Spigot Cast Iron Reducing Wye	.....	700.98	128.59
		For Extra Heavy Fittings, Add	.....	177.85	
		For Above Ground Cast Iron Pipe Installation, Add	.....	9.64	
		For Work In Restricted Working Space, Add	.....	57.85	
22 13 16 00-0092	EA	10" x 6" Bell And Spigot Cast Iron Reducing Wye	.....	767.31	142.19
		For Extra Heavy Fittings, Add	.....	193.96	
		For Above Ground Cast Iron Pipe Installation, Add	.....	10.66	
		For Work In Restricted Working Space, Add	.....	63.94	
22 13 16 00-0093	EA	10" x 8" Bell And Spigot Cast Iron Reducing Wye	.....	1,002.99	150.80
		For Extra Heavy Fittings, Add	.....	271.92	
		For Above Ground Cast Iron Pipe Installation, Add	.....	11.30	
		For Work In Restricted Working Space, Add	.....	67.82	
22 13 16 00-0094	EA	12" x 4" Bell And Spigot Cast Iron Reducing Wye	.....	1,030.96	150.80
		For Extra Heavy Fittings, Add	.....	281.71	
		For Above Ground Cast Iron Pipe Installation, Add	.....	11.30	
		For Work In Restricted Working Space, Add	.....	67.82	
22 13 16 00-0095	EA	12" x 6" Bell And Spigot Cast Iron Reducing Wye	.....	1,075.03	163.42
		For Extra Heavy Fittings, Add	.....	290.51	
		For Above Ground Cast Iron Pipe Installation, Add	.....	12.25	
		For Work In Restricted Working Space, Add	.....	73.50	
22 13 16 00-0096	EA	12" x 8" Bell And Spigot Cast Iron Reducing Wye	.....	1,256.04	171.53
		For Extra Heavy Fittings, Add	.....	349.63	
		For Above Ground Cast Iron Pipe Installation, Add	.....	12.86	
		For Work In Restricted Working Space, Add	.....	77.13	
22 13 16 00-0097	EA	12" x 10" Bell And Spigot Cast Iron Reducing Wye	.....	1,516.92	176.61
		For Extra Heavy Fittings, Add	.....	438.24	
		For Above Ground Cast Iron Pipe Installation, Add	.....	13.24	
		For Work In Restricted Working Space, Add	.....	79.44	
22 13 16 00-0098	EA	15" x 4" Bell And Spigot Cast Iron Reducing Wye	.....	2,469.20	166.53
		For Extra Heavy Fittings, Add	.....	776.84	
		For Above Ground Cast Iron Pipe Installation, Add	.....	12.48	
		For Work In Restricted Working Space, Add	.....	74.90	
22 13 16 00-0099	EA	15" x 6" Bell And Spigot Cast Iron Reducing Wye	.....	2,579.02	180.22
		For Extra Heavy Fittings, Add	.....	808.07	
		For Above Ground Cast Iron Pipe Installation, Add	.....	13.51	
		For Work In Restricted Working Space, Add	.....	81.08	
22 13 16 00-0100	EA	15" x 8" Bell And Spigot Cast Iron Reducing Wye	.....	2,633.13	188.00
		For Extra Heavy Fittings, Add	.....	822.94	
		For Above Ground Cast Iron Pipe Installation, Add	.....	14.09	
		For Work In Restricted Working Space, Add	.....	84.56	
22 13 16 00-0101	EA	15" x 10" Bell And Spigot Cast Iron Reducing Wye	.....	2,695.07	194.40
		For Extra Heavy Fittings, Add	.....	841.28	
		For Above Ground Cast Iron Pipe Installation, Add	.....	14.57	
		For Work In Restricted Working Space, Add	.....	87.42	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0102 EA 15" x 12" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,765.17 859.87 15.42 92.52	205.71
22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0104 EA 2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	106.26 8.52 4.10 24.58	54.62
22 13 16 00-0105 EA 3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	126.09 12.74 4.48 26.91	59.82
22 13 16 00-0106 EA 4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	167.78 17.60 5.88 35.25	78.39
22 13 16 00-0107 EA 5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	227.46 31.89 6.82 40.91	90.98
22 13 16 00-0108 EA 6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	284.51 40.38 8.46 50.74	112.84
22 13 16 00-0109 EA 8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	503.09 98.29 11.11 66.68	148.26
22 13 16 00-0110 EA 10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	719.87 149.96 14.57 87.42	194.40
22 13 16 00-0111 EA 12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	961.81 205.51 18.73 112.40	249.88
22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	112.91 9.56 4.28 25.68	57.09
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	155.97 17.55 5.29 31.75	70.55
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	167.20 20.54 5.43 32.56	72.34
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	242.92 36.72 6.90 41.41	92.10
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	252.36 39.10 7.03 42.19	93.79
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	267.71 41.19 7.50 45.01	100.05
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	360.43 68.06 8.30 49.79	110.72
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	371.65 68.06 8.86 53.16	118.18
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	464.07 93.43 9.86 59.14	131.46
22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	165.22 23.55 4.90 29.38	65.35
22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	236.44 39.54 6.17 37.04	82.39
22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	318.46 56.76 7.81 46.88	104.21
22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	596.54 125.92 11.84 71.03	157.92
22 13 16 00-0127 EA 8" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,154.71 306.50 13.95 83.70	186.12
22 13 16 00-0128 EA 10" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,518.65 422.25 15.61 93.66	208.25
22 13 16 00-0129 EA 12" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,084.88 248.58 18.73 112.40	249.88
22 13 16 00-0130 EA 15" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,925.56 886.26 19.67 118.02	262.26
22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	155.60 13.90 5.80 34.77	77.28
22 13 16 00-0133 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	180.47 16.57 6.66 39.94	88.78
22 13 16 00-0134 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	194.54 19.20 6.98 41.91	93.13
22 13 16 00-0135 EA 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	246.08 28.65 8.21 49.26	109.54
22 13 16 00-0136 EA 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	260.13 31.38 8.52 51.14	113.72
22 13 16 00-0137 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	297.25 38.97 9.30 55.78	124.01
22 13 16 00-0138 EA 8" x 4" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	462.17 86.52 10.75 64.49	143.42
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	507.49 88.54 12.73 76.36	169.73
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	492.55 91.88 11.50 69.02	153.41
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	574.46 106.47 13.51 81.08	180.22
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	700.17 141.97 14.73 88.36	196.44
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	715.25 144.88 15.07 90.39	200.96

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0144	EA	12" x 8" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	902.78 201.24 16.39 98.35	218.65
22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)				
22 13 16 00-0146	EA	2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.11 15.11 4.90 29.38	65.35
22 13 16 00-0147	EA	3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	189.86 20.57 6.55 39.32	87.42
22 13 16 00-0148	EA	4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.58 28.95 8.19 49.16	109.32
22 13 16 00-0149	EA	6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	521.06 89.75 13.23 79.39	176.49
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0030)				
22 13 16 00-0151	EA	3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	185.73 23.88 5.88 35.25	78.39
22 13 16 00-0152	EA	4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	219.10 30.09 6.66 39.94	88.78
22 13 16 00-0153	EA	4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	245.70 34.15 7.41 44.44	98.84
22 13 16 00-0154	EA	6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	471.16 95.82 9.87 59.22	131.64
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)				
22 13 16 00-0156	EA	2" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	115.64 11.77 4.10 24.60	54.71
22 13 16 00-0157	EA	3" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	130.77 14.38 4.48 26.91	59.82
22 13 16 00-0158	EA	4" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	203.40 32.72 5.50 32.98	73.27
22 13 16 00-0159	EA	5" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	286.74 58.25 6.02 36.09	80.21
22 13 16 00-0160	EA	6" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	343.96 69.90 7.21 43.27	96.20
22 13 16 00-0161	EA	8" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	714.47 184.05 9.43 56.59	125.80
22 13 16 00-0162	EA	10" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,062.91 291.50 11.50 69.02	153.41
22 13 16 00-0163	EA	12" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,571.24 455.35 13.51 81.08	180.22
22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)				



Plumbing			22	22
Plumbing Piping			22 10	
Facility Sanitary Sewerage			22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	150.06 22.56 4.28 25.68	57.09
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	177.44 27.02 5.01 30.08	66.88
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	184.88 29.62 5.01 30.08	66.88
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	276.83 48.58 6.90 41.41	92.10
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	287.59 51.43 7.03 42.19	93.79
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	311.49 56.51 7.50 45.01	100.05
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	515.02 118.24 8.86 53.16	118.18
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	641.53 155.54 9.86 59.14	131.46
22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	101.58 6.88 4.10 24.58	54.62
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	123.90 11.97 4.48 26.91	59.82
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	163.85 16.22 5.88 35.25	78.39
22 13 16 00-0177 EA 5" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	205.51 24.21 6.82 40.91	90.98
22 13 16 00-0178 EA 6" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	258.23 31.18 8.46 50.74	112.84
22 13 16 00-0179 EA 8" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	429.58 72.57 11.11 66.68	148.26
22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0181 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	103.88 7.68 4.10 24.58	54.62
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	114.51 8.69 4.48 26.91	59.82
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	148.09 10.71 5.88 35.25	78.39
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	105.34 8.19 4.10 24.58	54.62
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	117.27 9.65 4.48 26.91	59.82

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0187	EA		4" Bell And Spigot Cast Iron Tapped Sanitary Cross.....	155.04	78.39
			For Extra Heavy Fittings, Add	13.14	
			For Above Ground Cast Iron Pipe Installation, Add	5.88	
			For Work In Restricted Working Space, Add	35.25	
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)					
22 13 16 00-0189	EA		3" x 2" Bell And Spigot Cast Iron Reducer.....	58.48	30.76
			For Extra Heavy Fittings, Add	4.35	
			For Above Ground Cast Iron Pipe Installation, Add	2.30	
			For Work In Restricted Working Space, Add	13.82	
22 13 16 00-0190	EA		4" x 2" Bell And Spigot Cast Iron Reducer.....	73.87	40.56
			For Extra Heavy Fittings, Add	4.55	
			For Above Ground Cast Iron Pipe Installation, Add	3.04	
			For Work In Restricted Working Space, Add	18.26	
22 13 16 00-0191	EA		4" x 3" Bell And Spigot Cast Iron Reducer.....	78.19	40.90
			For Extra Heavy Fittings, Add	5.91	
			For Above Ground Cast Iron Pipe Installation, Add	3.07	
			For Work In Restricted Working Space, Add	18.39	
22 13 16 00-0192	EA		6" x 2" Bell And Spigot Cast Iron Reducer.....	97.60	48.70
			For Extra Heavy Fittings, Add	8.59	
			For Above Ground Cast Iron Pipe Installation, Add	3.65	
			For Work In Restricted Working Space, Add	21.92	
22 13 16 00-0193	EA		6" x 3" Bell And Spigot Cast Iron Reducer.....	101.61	49.35
			For Extra Heavy Fittings, Add	9.65	
			For Above Ground Cast Iron Pipe Installation, Add	3.70	
			For Work In Restricted Working Space, Add	22.21	
22 13 16 00-0194	EA		6" x 4" Bell And Spigot Cast Iron Reducer.....	104.70	50.39
			For Extra Heavy Fittings, Add	10.21	
			For Above Ground Cast Iron Pipe Installation, Add	3.78	
			For Work In Restricted Working Space, Add	22.66	
22 13 16 00-0195	EA		8" x 2" Bell And Spigot Cast Iron Reducer.....	131.71	51.92
			For Extra Heavy Fittings, Add	18.85	
			For Above Ground Cast Iron Pipe Installation, Add	3.89	
			For Work In Restricted Working Space, Add	23.36	
22 13 16 00-0196	EA		8" x 3" Bell And Spigot Cast Iron Reducer.....	150.14	63.84
			For Extra Heavy Fittings, Add	19.05	
			For Above Ground Cast Iron Pipe Installation, Add	4.79	
			For Work In Restricted Working Space, Add	28.71	
22 13 16 00-0197	EA		8" x 4" Bell And Spigot Cast Iron Reducer.....	154.09	65.48
			For Extra Heavy Fittings, Add	19.56	
			For Above Ground Cast Iron Pipe Installation, Add	4.91	
			For Work In Restricted Working Space, Add	29.46	
22 13 16 00-0198	EA		8" x 6" Bell And Spigot Cast Iron Reducer.....	159.35	68.35
			For Extra Heavy Fittings, Add	19.92	
			For Above Ground Cast Iron Pipe Installation, Add	5.12	
			For Work In Restricted Working Space, Add	30.74	
22 13 16 00-0199	EA		10" x 4" Bell And Spigot Cast Iron Reducer.....	196.47	76.71
			For Extra Heavy Fittings, Add	28.50	
			For Above Ground Cast Iron Pipe Installation, Add	5.75	
			For Work In Restricted Working Space, Add	34.51	
22 13 16 00-0200	EA		10" x 6" Bell And Spigot Cast Iron Reducer.....	207.05	80.56
			For Extra Heavy Fittings, Add	30.18	
			For Above Ground Cast Iron Pipe Installation, Add	6.04	
			For Work In Restricted Working Space, Add	36.25	
22 13 16 00-0201	EA		10" x 8" Bell And Spigot Cast Iron Reducer.....	220.10	84.09
			For Extra Heavy Fittings, Add	32.90	
			For Above Ground Cast Iron Pipe Installation, Add	6.30	
			For Work In Restricted Working Space, Add	37.83	
22 13 16 00-0202	EA		12" x 4" Bell And Spigot Cast Iron Reducer.....	269.56	91.14
			For Extra Heavy Fittings, Add	46.54	
			For Above Ground Cast Iron Pipe Installation, Add	6.83	
			For Work In Restricted Working Space, Add	40.98	
22 13 16 00-0203	EA		12" x 6" Bell And Spigot Cast Iron Reducer.....	302.12	106.63
			For Extra Heavy Fittings, Add	49.77	
			For Above Ground Cast Iron Pipe Installation, Add	8.00	
			For Work In Restricted Working Space, Add	47.97	
22 13 16 00-0204	EA		12" x 8" Bell And Spigot Cast Iron Reducer.....	328.54	121.45
			For Extra Heavy Fittings, Add	51.25	
			For Above Ground Cast Iron Pipe Installation, Add	9.11	
			For Work In Restricted Working Space, Add	54.64	
22 13 16 00-0205	EA		12" x 10" Bell And Spigot Cast Iron Reducer.....	361.93	139.90
			For Extra Heavy Fittings, Add	53.27	
			For Above Ground Cast Iron Pipe Installation, Add	10.49	
			For Work In Restricted Working Space, Add	62.92	
22 13 16 00-0206	EA		15" x 6" Bell And Spigot Cast Iron Reducer.....	460.41	139.90
			For Extra Heavy Fittings, Add	87.73	
			For Above Ground Cast Iron Pipe Installation, Add	10.49	
			For Work In Restricted Working Space, Add	62.92	
22 13 16 00-0207	EA		15" x 8" Bell And Spigot Cast Iron Reducer.....	490.45	150.80
			For Extra Heavy Fittings, Add	92.53	
			For Above Ground Cast Iron Pipe Installation, Add	11.30	
			For Work In Restricted Working Space, Add	67.82	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0208	EA	15" x 10" Bell And Spigot Cast Iron Reducer.....	511.29	158.99
		For Extra Heavy Fittings, Add	95.50	
		For Above Ground Cast Iron Pipe Installation, Add	11.92	
		For Work In Restricted Working Space, Add	71.53	
22 13 16 00-0209	EA	15" x 12" Bell And Spigot Cast Iron Reducer.....	539.40	169.73
		For Extra Heavy Fittings, Add	99.71	
		For Above Ground Cast Iron Pipe Installation, Add	12.73	
		For Work In Restricted Working Space, Add	76.36	
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)				
22 13 16 00-0211	EA	2" Bell And Spigot Cast Iron P-Trap.....	57.89	24.46
		For Extra Heavy Fittings, Add	7.44	
		For Above Ground Cast Iron Pipe Installation, Add	1.83	
		For Work In Restricted Working Space, Add	10.99	
22 13 16 00-0212	EA	3" Bell And Spigot Cast Iron P-Trap.....	76.96	30.76
		For Extra Heavy Fittings, Add	10.82	
		For Above Ground Cast Iron Pipe Installation, Add	2.30	
		For Work In Restricted Working Space, Add	13.82	
22 13 16 00-0213	EA	4" Bell And Spigot Cast Iron P-Trap.....	104.61	40.90
		For Extra Heavy Fittings, Add	15.16	
		For Above Ground Cast Iron Pipe Installation, Add	3.07	
		For Work In Restricted Working Space, Add	18.39	
22 13 16 00-0214	EA	5" Bell And Spigot Cast Iron P-Trap.....	160.42	45.09
		For Extra Heavy Fittings, Add	32.50	
		For Above Ground Cast Iron Pipe Installation, Add	3.38	
		For Work In Restricted Working Space, Add	20.27	
22 13 16 00-0215	EA	6" Bell And Spigot Cast Iron P-Trap.....	213.22	53.04
		For Extra Heavy Fittings, Add	46.80	
		For Above Ground Cast Iron Pipe Installation, Add	3.98	
		For Work In Restricted Working Space, Add	23.85	
22 13 16 00-0216	EA	8" Bell And Spigot Cast Iron P-Trap.....	459.39	68.35
		For Extra Heavy Fittings, Add	124.93	
		For Above Ground Cast Iron Pipe Installation, Add	5.12	
		For Work In Restricted Working Space, Add	30.74	
22 13 16 00-0217	EA	10" Bell And Spigot Cast Iron P-Trap.....	511.71	84.09
		For Extra Heavy Fittings, Add	134.97	
		For Above Ground Cast Iron Pipe Installation, Add	6.30	
		For Work In Restricted Working Space, Add	37.83	
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)				
22 13 16 00-0219	EA	2" Bell And Spigot Cast Iron Deep Seal P-Trap.....	65.96	24.46
		For Extra Heavy Fittings, Add	10.26	
		For Above Ground Cast Iron Pipe Installation, Add	1.83	
		For Work In Restricted Working Space, Add	10.99	
22 13 16 00-0220	EA	3" Bell And Spigot Cast Iron Deep Seal P-Trap.....	92.83	30.76
		For Extra Heavy Fittings, Add	16.37	
		For Above Ground Cast Iron Pipe Installation, Add	2.30	
		For Work In Restricted Working Space, Add	13.82	
22 13 16 00-0221	EA	4" Bell And Spigot Cast Iron Deep Seal P-Trap.....	134.10	40.90
		For Extra Heavy Fittings, Add	25.48	
		For Above Ground Cast Iron Pipe Installation, Add	3.07	
		For Work In Restricted Working Space, Add	18.39	
22 13 16 00-0222	EA	5" Bell And Spigot Cast Iron Deep Seal P-Trap.....	215.00	50.39
		For Extra Heavy Fittings, Add	48.82	
		For Above Ground Cast Iron Pipe Installation, Add	3.78	
		For Work In Restricted Working Space, Add	22.66	
22 13 16 00-0223	EA	6" Bell And Spigot Cast Iron Deep Seal P-Trap.....	228.96	56.18
		For Extra Heavy Fittings, Add	50.64	
		For Above Ground Cast Iron Pipe Installation, Add	4.21	
		For Work In Restricted Working Space, Add	25.28	
22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)				
22 13 16 00-0225	EA	3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent	153.15	59.04
		For Above Ground Cast Iron Pipe Installation, Add	4.48	
		For Work In Restricted Working Space, Add	26.91	
22 13 16 00-0226	EA	4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent	203.89	77.62
		For Above Ground Cast Iron Pipe Installation, Add	5.88	
		For Work In Restricted Working Space, Add	35.25	
22 13 16 00-0227	EA	5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent	269.86	87.52
		For Above Ground Cast Iron Pipe Installation, Add	6.62	
		For Work In Restricted Working Space, Add	39.69	
22 13 16 00-0228	EA	6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent	520.28	99.18
		For Above Ground Cast Iron Pipe Installation, Add	7.50	
		For Work In Restricted Working Space, Add	45.01	
22 13 16 00-0229	EA	8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent	1,647.13	116.87
		For Above Ground Cast Iron Pipe Installation, Add	8.86	
		For Work In Restricted Working Space, Add	53.16	
22 13 16 00-0230	EA	8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent	1,784.43	130.39
		For Above Ground Cast Iron Pipe Installation, Add	9.86	
		For Work In Restricted Working Space, Add	59.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)		
22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent.....	197.63	81.54
For Above Ground Cast Iron Pipe Installation, Add	6.17	
For Work In Restricted Working Space, Add	37.04	
22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....	267.50	102.93
For Above Ground Cast Iron Pipe Installation, Add	7.81	
For Work In Restricted Working Space, Add	46.88	
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....	583.52	122.56
For Above Ground Cast Iron Pipe Installation, Add	9.30	
For Work In Restricted Working Space, Add	55.78	
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent.....	678.53	148.35
For Above Ground Cast Iron Pipe Installation, Add	11.24	
For Work In Restricted Working Space, Add	67.44	
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....	1,778.63	141.70
For Above Ground Cast Iron Pipe Installation, Add	10.75	
For Work In Restricted Working Space, Add	64.49	
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent.....	1,955.25	168.25
For Above Ground Cast Iron Pipe Installation, Add	12.73	
For Work In Restricted Working Space, Add	76.36	
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent.....	2,592.27	194.15
For Above Ground Cast Iron Pipe Installation, Add	14.73	
For Work In Restricted Working Space, Add	88.36	
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent.....	3,575.19	224.48
For Above Ground Cast Iron Pipe Installation, Add	17.00	
For Work In Restricted Working Space, Add	102.02	
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent.....	6,909.18	259.63
For Above Ground Cast Iron Pipe Installation, Add	19.68	
For Work In Restricted Working Space, Add	118.06	
22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting.....	112.40	
For Above Ground Cast Iron Pipe Installation, Add	1.83	
For Work In Restricted Working Space, Add	10.97	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting.....	153.27	
For Above Ground Cast Iron Pipe Installation, Add	2.05	
For Work In Restricted Working Space, Add	12.32	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting.....	178.42	
For Above Ground Cast Iron Pipe Installation, Add	2.75	
For Work In Restricted Working Space, Add	16.51	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting.....	219.57	
For Above Ground Cast Iron Pipe Installation, Add	3.20	
For Work In Restricted Working Space, Add	19.17	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting.....	266.57	
For Above Ground Cast Iron Pipe Installation, Add	3.86	
For Work In Restricted Working Space, Add	23.16	
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting.....	495.82	
For Above Ground Cast Iron Pipe Installation, Add	4.88	
For Work In Restricted Working Space, Add	29.27	
22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019)		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe.....	10.18	
For Above Ground Cast Iron Pipe Installation, Add	0.51	
For Work In Restricted Working Space, Add	3.05	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe.....	11.11	
For Above Ground Cast Iron Pipe Installation, Add	0.56	
For Work In Restricted Working Space, Add	3.33	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe.....	13.88	
For Above Ground Cast Iron Pipe Installation, Add	0.69	
For Work In Restricted Working Space, Add	4.16	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe.....	16.66	
For Above Ground Cast Iron Pipe Installation, Add	0.83	
For Work In Restricted Working Space, Add	5.00	
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe.....	22.21	
For Above Ground Cast Iron Pipe Installation, Add	1.11	
For Work In Restricted Working Space, Add	6.66	
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe.....	25.92	
For Above Ground Cast Iron Pipe Installation, Add	1.30	
For Work In Restricted Working Space, Add	7.78	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe.....	30.55	
For Above Ground Cast Iron Pipe Installation, Add	1.53	
For Work In Restricted Working Space, Add	9.17	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe.....	35.18	
For Above Ground Cast Iron Pipe Installation, Add	1.76	
For Work In Restricted Working Space, Add	10.55	
22 13 16 00-0257 Joint Material (22 13 16 00-0019)		
Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....	4.28	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	7.36	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	0.72	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0261	EA	3" Dual Tite Rubber Gasket	0.99	
22 13 16 00-0262	EA	4" Dual Tite Rubber Gasket	1.23	
22 13 16 00-0263	EA	6" Dual Tite Rubber Gasket	2.04	
22 13 16 00-0264	EA	8" Dual Tite Rubber Gasket	4.50	
22 13 16 00-0265	EA	10" Dual Tite Rubber Gasket	6.90	
22 13 16 00-0266	EA	12" Dual Tite Rubber Gasket	8.79	
22 13 16 00-0267	EA	15" Dual Tite Rubber Gasket	10.44	
22 13 16 00-0268		No Hub Cast Iron Soil Pipe And Fittings (22 13 16)		
		Note: Service Weight. Excludes hangers.		
22 13 16 00-0269		No Hub Cast Iron Pipe (22 13 16 00-0268)		
		Note: Excludes couplings.		
22 13 16 00-0270	LF	1-1/2" No Hub Cast Iron Pipe	11.19	5.11
		For Below Ground Installation, Add	0.38	
		For Work In Restricted Working Space, Add	2.30	
22 13 16 00-0271	LF	2" No Hub Cast Iron Pipe	11.91	5.45
		For Below Ground Installation, Add	0.41	
		For Work In Restricted Working Space, Add	2.47	
22 13 16 00-0272	LF	3" No Hub Cast Iron Pipe	17.02	7.92
		For Below Ground Installation, Add	0.60	
		For Work In Restricted Working Space, Add	3.58	
22 13 16 00-0273	LF	4" No Hub Cast Iron Pipe	22.09	10.31
		For Below Ground Installation, Add	0.77	
		For Work In Restricted Working Space, Add	4.65	
22 13 16 00-0274	LF	5" No Hub Cast Iron Pipe	27.64	12.30
		For Below Ground Installation, Add	0.92	
		For Work In Restricted Working Space, Add	5.53	
22 13 16 00-0275	LF	6" No Hub Cast Iron Pipe	31.48	13.42
		For Below Ground Installation, Add	1.01	
		For Work In Restricted Working Space, Add	6.03	
22 13 16 00-0276	LF	8" No Hub Cast Iron Pipe	47.04	19.26
		For Below Ground Installation, Add	1.44	
		For Work In Restricted Working Space, Add	8.65	
22 13 16 00-0277	LF	10" No Hub Cast Iron Pipe	62.99	21.88
		For Below Ground Installation, Add	1.64	
		For Work In Restricted Working Space, Add	9.84	
22 13 16 00-0278		No Hub Cast Iron Fittings (22 13 16 00-0268)		
22 13 16 00-0279		No Hub Cast Iron Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0280	EA	1-1/2" No Hub Cast Iron Long Sweep	44.99	24.19
		For Below Ground Installation, Add	1.81	
		For Work In Restricted Working Space, Add	10.88	
22 13 16 00-0281	EA	2" No Hub Cast Iron Long Sweep	45.21	24.19
		For Below Ground Installation, Add	1.81	
		For Work In Restricted Working Space, Add	10.88	
22 13 16 00-0282	EA	3" No Hub Cast Iron Long Sweep	52.77	27.70
		For Below Ground Installation, Add	2.08	
		For Work In Restricted Working Space, Add	12.47	
22 13 16 00-0283	EA	4" No Hub Cast Iron Long Sweep	71.68	36.64
		For Below Ground Installation, Add	2.75	
		For Work In Restricted Working Space, Add	16.49	
22 13 16 00-0284	EA	5" No Hub Cast Iron Long Sweep	91.59	40.58
		For Below Ground Installation, Add	3.04	
		For Work In Restricted Working Space, Add	18.25	
22 13 16 00-0285	EA	6" No Hub Cast Iron Long Sweep	108.85	48.38
		For Below Ground Installation, Add	3.63	
		For Work In Restricted Working Space, Add	21.78	
22 13 16 00-0286	EA	8" No Hub Cast Iron Long Sweep	192.81	62.45
		For Below Ground Installation, Add	4.68	
		For Work In Restricted Working Space, Add	28.10	
22 13 16 00-0287		No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0288	EA	3" x 2" No Hub Cast Iron Reducing Long Sweep	62.01	27.70
		For Below Ground Installation, Add	2.08	
		For Work In Restricted Working Space, Add	12.47	
22 13 16 00-0289	EA	4" x 3" No Hub Cast Iron Reducing Long Sweep	89.28	36.64
		For Below Ground Installation, Add	2.75	
		For Work In Restricted Working Space, Add	16.49	
22 13 16 00-0290		No Hub Cast Iron Short Sweeps (22 13 16 00-0278)		
22 13 16 00-0291	EA	2" No Hub Cast Iron Short Sweep	43.35	24.19
		For Below Ground Installation, Add	1.81	
		For Work In Restricted Working Space, Add	10.88	
22 13 16 00-0292	EA	3" No Hub Cast Iron Short Sweep	51.30	27.70
		For Below Ground Installation, Add	2.08	
		For Work In Restricted Working Space, Add	12.47	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	70.91 2.75 16.49	36.64
22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	91.88 3.04 18.25	40.58
22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	104.35 3.63 21.78	48.38
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	179.19 4.68 28.10	62.45
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	281.55 6.56 39.34	87.45
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	40.28 1.74 10.43	23.18
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	42.07 1.81 10.88	24.19
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	49.23 2.08 12.47	27.70
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	66.33 2.75 16.49	36.64
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	86.19 3.04 18.25	40.58
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	100.70 3.63 21.78	48.38
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	168.58 4.68 28.10	62.45
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	39.10 1.74 10.43	23.18
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	40.67 1.81 10.88	24.19
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	47.85 2.08 12.47	27.70
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	63.24 2.75 16.49	36.64
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	100.02 4.06 24.34	54.10
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	156.76 5.33 31.95	71.06
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	225.86 6.55 39.32	87.42
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	62.29 2.73 16.39	36.47
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	81.85 3.70 22.23	49.42
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	91.75 4.06 24.34	54.10
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	123.73 5.33 31.95	71.06
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	155.69 5.92 35.53	79.00
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	184.79 7.03 42.19	93.79



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	291.06 9.37 56.20	124.98
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	432.74 10.41 62.44	138.83
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	79.08 3.54 21.21	47.20
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	89.51 4.06 24.34	54.10
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	100.40 4.48 26.91	59.82
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	114.00 4.98 29.90	66.46
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	143.50 5.99 35.91	79.81
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	151.86 6.25 37.51	83.42
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	175.51 7.31 43.84	97.49
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	206.72 7.37 44.20	98.27
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	235.23 8.09 48.56	108.02
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	327.86 8.63 51.76	115.07
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	347.21 9.23 55.41	123.18
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	392.34 9.86 59.15	131.54
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	71.34 3.18 19.07	42.43
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	82.17 3.70 22.23	49.42
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	94.11 4.06 24.34	54.10
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	130.41 5.33 31.95	71.06
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	224.02 8.19 49.16	109.32
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	361.22 10.51 63.08	140.25
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	427.51 12.71 76.26	169.56
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	82.55 3.70 22.23	49.42
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	90.69 4.06 24.34	54.10
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	102.76 4.48 26.91	59.82
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	116.29 4.98 29.90	66.46

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.37 5.99 35.91	79.81
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	163.86 6.25 37.51	83.42
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	186.03 7.31 43.84	97.49
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	226.37 7.37 44.20	98.27
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	280.15 8.09 48.56	108.02
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	102.94 4.61 27.63	61.43
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.07 5.61 33.63	74.81
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	163.69 6.13 36.78	81.80
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.97 8.86 53.15	118.22
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	430.13 11.92 71.53	158.99
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.17 5.10 30.62	68.08
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.53 5.88 35.26	78.39
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	154.07 6.41 38.44	85.46
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	213.68 7.81 46.88	104.23
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.63 5.53 33.20	73.79
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.99 6.13 36.78	81.80
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	218.43 8.12 48.69	108.30
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	316.15 12.53 75.18	167.17
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.21 4.76 28.56	63.48
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.02 5.53 33.20	73.79
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.73 6.04 36.26	80.60
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.87 2.68 16.08	35.70



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Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	82.24 3.70 22.23	49.42
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	90.88 4.06 24.34	54.10
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	121.75 5.33 31.95	71.06
22 13 16 00-0379 EA 5" No Hub Cast Iron Sanitary Tee..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	156.10 5.92 35.53	79.00
22 13 16 00-0380 EA 6" No Hub Cast Iron Sanitary Tee..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	184.50 7.03 42.19	93.79
22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	315.44 9.37 56.20	124.98
22 13 16 00-0382 EA 2" x 1-1/2" No Hub Cast Iron Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	68.58 3.02 18.13	40.31
22 13 16 00-0383 EA 3" x 1-1/2" No Hub Cast Iron Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	79.75 3.54 21.21	47.20
22 13 16 00-0384 No Hub Cast Iron Reducing Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	83.13 3.70 22.23	49.42
22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	92.46 3.70 22.23	49.42
22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	111.85 5.01 30.08	66.88
22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	114.11 5.01 30.08	66.88
22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	139.44 5.63 33.75	75.06
22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	142.60 5.63 33.75	75.06
22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	142.99 5.63 33.75	75.06
22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	148.57 5.86 35.16	78.20
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	253.45 7.90 47.40	105.39
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	44.43 1.81 10.88	24.19
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	51.37 2.08 12.47	27.70
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	65.00 2.75 16.49	36.64
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	43.01 1.81 10.88	24.19
22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	52.41 2.08 12.47	27.70
22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	74.04 2.75 16.49	36.64
22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	118.34 4.06 24.34	54.10
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)		

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	160.97 5.33 31.95	71.06
22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	212.46 8.09 48.57	107.95
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)		
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	39.13 1.81 10.88	24.19
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	46.07 2.08 12.47	27.70
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	63.53 2.75 16.49	36.64
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	97.13 4.06 24.34	54.10
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	128.48 5.33 31.95	71.06
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	81.44 3.58 21.48	47.71
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	86.39 3.70 22.23	49.42
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	100.50 4.06 24.34	54.10
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	142.89 5.33 31.95	71.06
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	112.59 4.76 28.55	63.48
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	122.58 4.90 29.39	65.35
22 13 16 00-0420 EA 4" x 3" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	131.94 5.11 30.68	68.25
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)		
22 13 16 00-0422 EA 3" x 2" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	78.21 3.70 22.23	49.42
22 13 16 00-0423 EA 4" x 2" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	106.54 5.01 30.08	66.88
22 13 16 00-0424 EA 4" x 3" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	106.74 5.01 30.08	66.88
22 13 16 00-0425 EA 5" x 2" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	121.74 5.63 33.75	75.06
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	123.02 5.63 33.75	75.06
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	123.53 5.63 33.75	75.06
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	140.96 6.25 37.51	83.42
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	141.15 6.25 37.51	83.42
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	141.73 6.25 37.51	83.42
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	196.08 8.74 52.45	116.62



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	197.55 8.74 52.45	116.62
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	199.92 8.74 52.45	116.62
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	202.38 8.74 52.45	116.62
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	202.67 8.74 52.45	116.62
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	230.02 9.22 55.32	123.02
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	243.72 9.63 57.78	128.42
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	270.22 10.45 62.69	139.40
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	37.14 1.74 10.43	23.18
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	38.53 1.81 10.88	24.19
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	45.59 2.08 12.47	27.70
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	60.37 2.75 16.49	36.64
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	71.91 3.09 18.56	41.79
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	82.72 3.63 21.78	48.38
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	125.61 4.68 28.10	62.45
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	146.80 5.04 30.26	67.28
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	44.63 1.81 10.88	24.19
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	60.63 2.08 12.47	27.70
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	88.10 2.75 16.49	36.64
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	137.10 3.06 18.39	40.91
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	149.02 3.66 21.94	48.78
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)		
22 13 16 00-0455 EA 2" No Hub Cast Iron Deep Seal P-Trap For Below Ground Installation, Add For Work In Restricted Working Space, Add	66.01 2.30 13.82	30.76
22 13 16 00-0456 EA 3" No Hub Cast Iron Deep Seal P-Trap For Below Ground Installation, Add For Work In Restricted Working Space, Add	93.15 3.07 18.39	40.90
22 13 16 00-0457 EA 4" No Hub Cast Iron Deep Seal P-Trap For Below Ground Installation, Add For Work In Restricted Working Space, Add	132.06 4.05 24.28	54.02
22 13 16 00-0458 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)		
22 13 16 00-0459 EA 4" No Hub Cast Iron Closet Flange..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	68.23 2.75 16.49	36.64

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange For Below Ground Installation, Add For Work In Restricted Working Space, Add	70.98 2.75 16.49	36.64
22 13 16 00-0461 No Hub Cast Iron Closet Bends (22 13 16 00-0278)		
22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	106.88 2.75 16.49	36.64
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)		
22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter For Below Ground Installation, Add For Work In Restricted Working Space, Add	53.24 2.30 13.82	30.76
22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter For Below Ground Installation, Add For Work In Restricted Working Space, Add	55.45 2.30 13.82	30.76
22 13 16 00-0466 No Hub Couplings (22 13 16 00-0278) Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH).		
22 13 16 00-0467 EA 1-1/2" No Hub Coupling For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	5.58 0.73 1.51	
22 13 16 00-0468 EA 2" No Hub Coupling For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	5.58 0.73 1.51	
22 13 16 00-0469 EA 3" No Hub Coupling For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	6.62 0.86 1.79	
22 13 16 00-0470 EA 4" No Hub Coupling For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	7.86 1.02 2.12	
22 13 16 00-0471 EA 5" No Hub Coupling For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	18.18 2.36 4.91	
22 13 16 00-0472 EA 6" No Hub Coupling For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	19.98 2.60 5.39	
22 13 16 00-0473 EA 8" No Hub Coupling For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	37.63 4.89 10.16	
22 13 16 00-0474 EA 10" No Hub Coupling For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	51.84 6.74 14.00	
22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling	6.62	
22 13 16 00-0476 EA 3" x 2" No Hub Reducing Coupling	10.27	
22 13 16 00-0477 EA 4" x 2" No Hub Reducing Coupling	14.33	
22 13 16 00-0478 EA 4" x 3" No Hub Reducing Coupling	12.21	
22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts (22 13 16 00-0278) Note: For underground connections. See CSI section 22 13 16 00-0861 for additional FERNCO couplings.		
22 13 16 00-0480 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	15.88	
22 13 16 00-0481 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	16.40	
22 13 16 00-0482 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	17.22	
22 13 16 00-0483 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	20.09	
22 13 16 00-0484 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	37.92	
22 13 16 00-0485 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	52.06	
22 13 16 00-0486 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	91.20	
22 13 16 00-0487 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	139.37	
22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place (22 13 16 00-0268) Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub For Work In Restricted Working Space, Add	8.33 2.50	
22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub For Work In Restricted Working Space, Add	10.18 3.05	
22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub For Work In Restricted Working Space, Add	11.11 3.33	
22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub For Work In Restricted Working Space, Add	13.88 4.16	
22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub For Work In Restricted Working Space, Add	16.66 5.00	
22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub For Work In Restricted Working Space, Add	22.22 6.67	
22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub For Work In Restricted Working Space, Add	25.92 7.78	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe (22 13 16) See CSI section 22 11 16 00-0413 for copper and brass fittings.		
22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe.....	10.81	4.00
22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe.....	12.73	4.47
22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe.....	16.26	5.51
22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe.....	36.84	7.64
22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe.....	49.25	8.62
22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe.....	89.26	9.90
22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe.....	128.61	15.35
22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16) Note: Aboveground installation. See CSI section 33 31 11 00-0019 for underground installation.		
22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0504) Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0506 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	17.65	3.58
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	4.90	
22 13 16 00-0507 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	19.56	4.26
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	5.43	
22 13 16 00-0508 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	25.14	6.14
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	6.74	
22 13 16 00-0509 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	28.31	6.64
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	7.49	
22 13 16 00-0510 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	41.28	8.52
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	9.96	
22 13 16 00-0511 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	55.27	11.33
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	12.63	
22 13 16 00-0512 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	75.43	15.17
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	16.46	
22 13 16 00-0513 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: Excludes fittings or hangers.		
22 13 16 00-0514 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) (22 13 16 00-0513) Note: Excludes fittings or hangers.		
22 13 16 00-0515 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	5.87	3.58
For Work In Restricted Working Space, Add	1.60	
22 13 16 00-0516 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	7.10	4.26
For Work In Restricted Working Space, Add	1.91	
22 13 16 00-0517 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	10.61	6.14
For Work In Restricted Working Space, Add	2.75	
22 13 16 00-0518 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	11.98	6.64
For Work In Restricted Working Space, Add	2.98	
22 13 16 00-0519 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	15.66	8.04
For Work In Restricted Working Space, Add	3.61	
22 13 16 00-0520 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	22.27	10.69
For Work In Restricted Working Space, Add	4.82	
22 13 16 00-0521 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	30.93	14.30
For Work In Restricted Working Space, Add	6.43	
22 13 16 00-0522 Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) (22 13 16 00-0513) Note: Excludes fittings or hangers.		
22 13 16 00-0523 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	5.75	3.58
For Work In Restricted Working Space, Add	1.60	
22 13 16 00-0524 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	6.97	4.26
For Work In Restricted Working Space, Add	1.91	
22 13 16 00-0525 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	10.37	6.14
For Work In Restricted Working Space, Add	2.75	
22 13 16 00-0526 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	11.68	6.64
For Work In Restricted Working Space, Add	2.98	
22 13 16 00-0527 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	15.08	8.04
For Work In Restricted Working Space, Add	3.61	
22 13 16 00-0528 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	20.82	10.69
For Work In Restricted Working Space, Add	4.82	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0529	LF	10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	29.35 6.43	14.30
22 13 16 00-0530		Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) (22 13 16 00-0504)		
22 13 16 00-0531		Polyvinyl Chloride (PVC) DWV 1/4 Bends (22 13 16 00-0530)		
22 13 16 00-0532	EA	1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	22.49 6.39	14.23
22 13 16 00-0533	EA	2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	28.76 8.18	18.15
22 13 16 00-0534	EA	3" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	41.30 10.99	24.36
22 13 16 00-0535	EA	4" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	52.48 12.78	28.37
22 13 16 00-0536	EA	6" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	115.52 16.61	36.89
22 13 16 00-0537	EA	8" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	177.57 22.37	49.68
22 13 16 00-0538	EA	10" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	235.22 29.82	66.20
22 13 16 00-0539		Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends (22 13 16 00-0530)		
22 13 16 00-0540	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	25.81 6.39	14.23
22 13 16 00-0541	EA	2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	30.67 8.18	18.15
22 13 16 00-0542	EA	3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	46.21 10.99	24.36
22 13 16 00-0543	EA	4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	61.48 12.78	28.37
22 13 16 00-0544	EA	6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	98.14 16.61	36.89
22 13 16 00-0545	EA	8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	154.73 22.37	49.68
22 13 16 00-0546	EA	10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	234.81 29.82	66.20
22 13 16 00-0547		Polyvinyl Chloride (PVC) DWV 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0548	EA	1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	22.76 6.39	14.23
22 13 16 00-0549	EA	2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	28.74 8.18	18.15
22 13 16 00-0550	EA	3" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	40.89 10.99	24.36
22 13 16 00-0551	EA	4" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	50.48 12.78	28.37
22 13 16 00-0552	EA	6" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	110.43 16.61	36.89
22 13 16 00-0553	EA	8" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	165.74 22.37	49.68
22 13 16 00-0554	EA	10" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	200.42 29.82	66.20
22 13 16 00-0555		Polyvinyl Chloride (PVC) DWV Sanitary Tees (22 13 16 00-0530)		
22 13 16 00-0556	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	34.06 9.59	21.31
22 13 16 00-0557	EA	2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	43.92 12.27	27.26
22 13 16 00-0558	EA	3" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	63.00 16.49	36.64
22 13 16 00-0559	EA	4" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	79.25 19.17	42.60
22 13 16 00-0560	EA	6" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	172.28 24.92	55.30
22 13 16 00-0561	EA	8" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	227.15 33.55	74.47
22 13 16 00-0562		Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees (22 13 16 00-0530)		
22 13 16 00-0563	EA	2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	38.75 10.48	23.26
22 13 16 00-0564	EA	2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	43.19 11.38	25.22
22 13 16 00-0565	EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	40.94 11.38	25.22
22 13 16 00-0566	EA	3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	53.45 14.19	31.53
22 13 16 00-0567	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	56.13 15.08	33.48



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0568	EA	4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	61.53	35.44
		For Work In Restricted Working Space, Add	15.98	
22 13 16 00-0569	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	77.03	37.49
		For Work In Restricted Working Space, Add	16.87	
22 13 16 00-0570	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	89.19	40.56
		For Work In Restricted Working Space, Add	18.28	
22 13 16 00-0571	EA	6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	162.96	51.03
		For Work In Restricted Working Space, Add	23.01	
22 13 16 00-0572	EA	8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	396.15	63.81
		For Work In Restricted Working Space, Add	28.76	
22 13 16 00-0573	EA	8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	412.23	68.08
		For Work In Restricted Working Space, Add	30.68	
22 13 16 00-0574 Polyvinyl Chloride (PVC) DWV Double Sanitary Tees (22 13 16 00-0530)				
22 13 16 00-0575	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees	48.96	28.37
		For Work In Restricted Working Space, Add	12.78	
22 13 16 00-0576	EA	2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....	63.86	36.30
		For Work In Restricted Working Space, Add	16.36	
22 13 16 00-0577	EA	3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....	99.40	48.82
		For Work In Restricted Working Space, Add	21.98	
22 13 16 00-0578	EA	4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....	127.22	56.75
		For Work In Restricted Working Space, Add	25.56	
22 13 16 00-0579 Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees (22 13 16 00-0530)				
22 13 16 00-0580	EA	2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	56.99	32.38
		For Work In Restricted Working Space, Add	14.57	
22 13 16 00-0581	EA	3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	77.72	38.59
		For Work In Restricted Working Space, Add	17.38	
22 13 16 00-0582	EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	87.34	42.60
		For Work In Restricted Working Space, Add	19.17	
22 13 16 00-0583	EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	121.48	46.53
		For Work In Restricted Working Space, Add	20.96	
22 13 16 00-0584	EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	132.26	52.74
		For Work In Restricted Working Space, Add	23.77	
22 13 16 00-0585 Polyvinyl Chloride (PVC) DWV Reducers (22 13 16 00-0530)				
22 13 16 00-0586	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers	26.64	16.19
		For Work In Restricted Working Space, Add	7.28	
22 13 16 00-0587	EA	3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers	36.51	19.25
		For Work In Restricted Working Space, Add	8.69	
22 13 16 00-0588	EA	3" x 2" Polyvinyl Chloride (PVC) DWV Reducers.....	38.27	21.31
		For Work In Restricted Working Space, Add	9.59	
22 13 16 00-0589	EA	4" x 2" Polyvinyl Chloride (PVC) DWV Reducers.....	47.43	23.26
		For Work In Restricted Working Space, Add	10.48	
22 13 16 00-0590	EA	4" x 3" Polyvinyl Chloride (PVC) DWV Reducers.....	52.68	26.42
		For Work In Restricted Working Space, Add	11.89	
22 13 16 00-0591	EA	6" x 3" Polyvinyl Chloride (PVC) DWV Reducers.....	112.01	30.67
		For Work In Restricted Working Space, Add	13.80	
22 13 16 00-0592	EA	6" x 4" Polyvinyl Chloride (PVC) DWV Reducers.....	102.00	32.64
		For Work In Restricted Working Space, Add	14.70	
22 13 16 00-0593	EA	8" x 4" Polyvinyl Chloride (PVC) DWV Reducers.....	204.03	39.03
		For Work In Restricted Working Space, Add	17.57	
22 13 16 00-0594	EA	8" x 6" Polyvinyl Chloride (PVC) DWV Reducers.....	184.64	43.28
		For Work In Restricted Working Space, Add	19.49	
22 13 16 00-0595	EA	10" x 6" Polyvinyl Chloride (PVC) DWV Reducers.....	240.27	51.55
		For Work In Restricted Working Space, Add	23.22	
22 13 16 00-0596	EA	10" x 8" Polyvinyl Chloride (PVC) DWV Reducers.....	209.17	57.94
		For Work In Restricted Working Space, Add	26.09	
22 13 16 00-0597 Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0530)				
22 13 16 00-0598	EA	1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps	36.09	21.31
		For Work In Restricted Working Space, Add	9.59	
22 13 16 00-0599	EA	2" Polyvinyl Chloride (PVC) DWV P-Traps	46.53	27.26
		For Work In Restricted Working Space, Add	12.27	
22 13 16 00-0600	EA	3" Polyvinyl Chloride (PVC) DWV P-Traps	83.02	36.64
		For Work In Restricted Working Space, Add	16.49	
22 13 16 00-0601	EA	4" Polyvinyl Chloride (PVC) DWV P-Traps	130.73	42.60
		For Work In Restricted Working Space, Add	19.17	
22 13 16 00-0602	EA	6" Polyvinyl Chloride (PVC) DWV P-Traps	201.23	55.30
		For Work In Restricted Working Space, Add	24.92	
22 13 16 00-0603 Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0530)				
22 13 16 00-0604	EA	4" Polyvinyl Chloride (PVC) DWV Closet Flanges	50.53	28.37
		For Work In Restricted Working Space, Add	12.78	
22 13 16 00-0605	EA	4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges	45.16	26.42
		For Work In Restricted Working Space, Add	11.89	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0606		Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0530)		
22 13 16 00-0607	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Wyes.....	36.18	21.31
		<i>For Work In Restricted Working Space, Add</i>	9.59	
22 13 16 00-0608	EA	2" Polyvinyl Chloride (PVC) DWV Wyes.....	45.15	27.26
		<i>For Work In Restricted Working Space, Add</i>	12.27	
22 13 16 00-0609	EA	3" Polyvinyl Chloride (PVC) DWV Wyes.....	64.57	36.64
		<i>For Work In Restricted Working Space, Add</i>	16.49	
22 13 16 00-0610	EA	4" Polyvinyl Chloride (PVC) DWV Wyes.....	81.81	42.60
		<i>For Work In Restricted Working Space, Add</i>	19.17	
22 13 16 00-0611	EA	6" Polyvinyl Chloride (PVC) DWV Wyes.....	162.65	55.30
		<i>For Work In Restricted Working Space, Add</i>	24.92	
22 13 16 00-0612	EA	8" Polyvinyl Chloride (PVC) DWV Wyes.....	208.85	74.47
		<i>For Work In Restricted Working Space, Add</i>	33.55	
22 13 16 00-0613	EA	10" Polyvinyl Chloride (PVC) DWV Wyes.....	276.42	99.27
		<i>For Work In Restricted Working Space, Add</i>	44.73	
22 13 16 00-0614		Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0530)		
22 13 16 00-0615	EA	2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	42.47	23.26
		<i>For Work In Restricted Working Space, Add</i>	10.48	
22 13 16 00-0616	EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	45.40	25.22
		<i>For Work In Restricted Working Space, Add</i>	11.38	
22 13 16 00-0617	EA	3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	59.03	31.53
		<i>For Work In Restricted Working Space, Add</i>	14.19	
22 13 16 00-0618	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	57.70	33.48
		<i>For Work In Restricted Working Space, Add</i>	15.08	
22 13 16 00-0619	EA	4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	71.90	35.44
		<i>For Work In Restricted Working Space, Add</i>	15.98	
22 13 16 00-0620	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	70.62	37.49
		<i>For Work In Restricted Working Space, Add</i>	16.87	
22 13 16 00-0621	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	77.72	40.56
		<i>For Work In Restricted Working Space, Add</i>	18.28	
22 13 16 00-0622	EA	6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	145.89	49.08
		<i>For Work In Restricted Working Space, Add</i>	22.11	
22 13 16 00-0623	EA	6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	169.01	51.03
		<i>For Work In Restricted Working Space, Add</i>	23.01	
22 13 16 00-0624	EA	8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	179.01	63.81
		<i>For Work In Restricted Working Space, Add</i>	28.76	
22 13 16 00-0625	EA	8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	211.05	68.08
		<i>For Work In Restricted Working Space, Add</i>	30.68	
22 13 16 00-0626	EA	10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	214.40	80.35
		<i>For Work In Restricted Working Space, Add</i>	36.21	
22 13 16 00-0627	EA	10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	248.65	84.61
		<i>For Work In Restricted Working Space, Add</i>	38.13	
22 13 16 00-0628	EA	10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	280.48	91.00
		<i>For Work In Restricted Working Space, Add</i>	41.00	
22 13 16 00-0629		Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0530)		
22 13 16 00-0630	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	51.60	28.37
		<i>For Work In Restricted Working Space, Add</i>	12.78	
22 13 16 00-0631	EA	2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	66.10	36.30
		<i>For Work In Restricted Working Space, Add</i>	16.36	
22 13 16 00-0632	EA	3" Polyvinyl Chloride (PVC) DWV Double Wyes.....	103.15	48.82
		<i>For Work In Restricted Working Space, Add</i>	21.98	
22 13 16 00-0633	EA	4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	145.78	56.75
		<i>For Work In Restricted Working Space, Add</i>	25.56	
22 13 16 00-0634	EA	6" Polyvinyl Chloride (PVC) DWV Double Wyes.....	247.94	73.79
		<i>For Work In Restricted Working Space, Add</i>	33.23	
22 13 16 00-0635	EA	8" Polyvinyl Chloride (PVC) DWV Double Wyes.....	303.93	99.35
		<i>For Work In Restricted Working Space, Add</i>	44.73	
22 13 16 00-0636	EA	10" Polyvinyl Chloride (PVC) DWV Double Wyes.....	445.50	132.41
		<i>For Work In Restricted Working Space, Add</i>	59.64	
22 13 16 00-0637		Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0530)		
22 13 16 00-0638	EA	2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes.....	59.13	32.38
		<i>For Work In Restricted Working Space, Add</i>	14.57	
22 13 16 00-0639	EA	3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes.....	84.16	38.59
		<i>For Work In Restricted Working Space, Add</i>	17.38	
22 13 16 00-0640	EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	86.15	42.60
		<i>For Work In Restricted Working Space, Add</i>	19.17	
22 13 16 00-0641	EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	106.18	46.53
		<i>For Work In Restricted Working Space, Add</i>	20.96	
22 13 16 00-0642	EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes.....	127.20	52.74
		<i>For Work In Restricted Working Space, Add</i>	23.77	
22 13 16 00-0643	EA	6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	176.77	65.26
		<i>For Work In Restricted Working Space, Add</i>	29.40	
22 13 16 00-0644	EA	8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	208.88	78.05
		<i>For Work In Restricted Working Space, Add</i>	35.15	
22 13 16 00-0645	EA	8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes.....	250.53	86.57
		<i>For Work In Restricted Working Space, Add</i>	38.98	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0646	EA		10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	268.47 42.60	94.58
22 13 16 00-0647	EA		10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	324.92 46.43	103.09
22 13 16 00-0648	EA		10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	382.36 52.19	115.87
22 13 16 00-0649			Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0650	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	38.81 9.59	21.31
22 13 16 00-0651	EA		2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	49.26 12.27	27.26
22 13 16 00-0652	EA		3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	76.93 16.49	36.64
22 13 16 00-0653	EA		4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	109.53 19.17	42.60
22 13 16 00-0654			Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0655	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	55.23 11.38	25.22
22 13 16 00-0656	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	77.37 14.19	31.53
22 13 16 00-0657	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	69.07 15.08	33.48
22 13 16 00-0658	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	98.06 16.87	37.49
22 13 16 00-0659	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	106.23 18.28	40.56
22 13 16 00-0660			Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0661	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	53.64 12.78	28.37
22 13 16 00-0662	EA		2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	66.33 16.36	36.30
22 13 16 00-0663	EA		3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	93.76 21.98	48.82
22 13 16 00-0664	EA		4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	193.18 25.56	56.75
22 13 16 00-0665	EA		6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	502.74 33.23	73.79
22 13 16 00-0666			Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0667	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	84.70 14.57	32.38
22 13 16 00-0668	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	125.12 19.17	42.60
22 13 16 00-0669	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	183.95 20.96	46.53
22 13 16 00-0670	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	179.08 23.77	52.74
22 13 16 00-0671	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	354.07 29.40	65.26
22 13 16 00-0672			Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug (22 13 16 00-0530)		
22 13 16 00-0673	EA		2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	61.01 12.27	27.26
22 13 16 00-0674	EA		3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	93.38 16.49	36.64
22 13 16 00-0675	EA		4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	130.74 19.17	42.60
22 13 16 00-0676	EA		6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	277.28 24.92	55.30
22 13 16 00-0677	EA		8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	353.62 33.55	74.47
22 13 16 00-0678	EA		10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	469.82 44.73	99.27
22 13 16 00-0679			Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug (22 13 16 00-0530)		
22 13 16 00-0680	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	24.79 6.39	14.23
22 13 16 00-0681	EA		2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	32.87 8.18	18.15
22 13 16 00-0682	EA		3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	45.27 10.99	24.36



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0683	EA	4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	62.89 12.78	28.37
22 13 16 00-0684	EA	6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	111.07 16.61	36.89
22 13 16 00-0685	EA	8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	210.34 22.37	49.68
22 13 16 00-0686	EA	10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	357.67 29.81	66.20
22 13 16 00-0687 Polyvinyl Chloride (PVC) Couplings (22 13 16 00-0530)				
22 13 16 00-0688	EA	1-1/2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	22.34 6.39	14.23
22 13 16 00-0689	EA	2" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	28.42 8.18	18.15
22 13 16 00-0690	EA	3" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	39.60 10.99	24.36
22 13 16 00-0691	EA	4" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	47.47 12.78	28.37
22 13 16 00-0692	EA	6" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	82.24 16.61	36.89
22 13 16 00-0693	EA	8" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	152.14 22.37	49.68
22 13 16 00-0694	EA	10" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	219.65 29.82	66.20
22 13 16 00-0695 Polyvinyl Chloride (PVC) Male Adapters (22 13 16 00-0530)				
22 13 16 00-0696	EA	1-1/2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	11.69 3.20	7.07
22 13 16 00-0697	EA	2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	16.20 4.09	9.12
22 13 16 00-0698	EA	3" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	25.43 5.50	12.19
22 13 16 00-0699	EA	4" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	37.61 6.39	14.23
22 13 16 00-0700 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504)				
Note: In place piping.				
22 13 16 00-0701	EA	1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	6.25	
22 13 16 00-0702	EA	2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	6.87	
22 13 16 00-0703	EA	3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	8.75	
22 13 16 00-0704	EA	4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	11.80	
22 13 16 00-0705	EA	6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	16.87	
22 13 16 00-0706	EA	8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	22.49	
22 13 16 00-0707	EA	10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	27.49	
22 13 16 00-0708 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16)				
Note: Aboveground installation.				
22 13 16 00-0709 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies (22 13 16 00-0708)				
Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.				
22 13 16 00-0710	LF	1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly	17.65	3.58
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>			4.90	
22 13 16 00-0711	LF	2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly	19.56	4.26
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>			5.43	
22 13 16 00-0712	LF	3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly	25.14	6.14
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>			6.74	
22 13 16 00-0713	LF	4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly	28.31	6.64
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>			7.49	
22 13 16 00-0714	LF	6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly	41.28	8.52
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>			9.96	
22 13 16 00-0715 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) (22 13 16 00-0708)				
Note: Excludes fittings or hangers.				



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0716 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	5.77 1.60	3.58
22 13 16 00-0717 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	6.99 1.91	4.26
22 13 16 00-0718 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	10.42 2.75	6.14
22 13 16 00-0719 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	11.74 2.98	6.64
22 13 16 00-0720 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	15.70 3.61	8.04
22 13 16 00-0721 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) (22 13 16 00-0708)		
22 13 16 00-0722 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends (22 13 16 00-0721)		
22 13 16 00-0723 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	23.23 6.39	14.23
22 13 16 00-0724 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	30.00 8.18	18.15
22 13 16 00-0725 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	45.11 10.99	24.36
22 13 16 00-0726 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	59.19 12.78	28.37
22 13 16 00-0727 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	117.29 16.61	36.89
22 13 16 00-0728 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends (22 13 16 00-0721)		
22 13 16 00-0729 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	25.89 6.39	14.23
22 13 16 00-0730 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	32.60 8.18	18.15
22 13 16 00-0731 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	51.56 10.99	24.36
22 13 16 00-0732 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	72.03 12.78	28.37
22 13 16 00-0733 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends (22 13 16 00-0721)		
22 13 16 00-0734 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	23.59 6.39	14.23
22 13 16 00-0735 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	29.75 8.18	18.15
22 13 16 00-0736 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	43.78 10.99	24.36
22 13 16 00-0737 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	56.74 12.78	28.37
22 13 16 00-0738 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	119.86 16.61	36.89
22 13 16 00-0739 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees (22 13 16 00-0721)		
22 13 16 00-0740 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	35.23 9.59	21.31
22 13 16 00-0741 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	45.82 12.27	27.26
22 13 16 00-0742 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	67.50 16.49	36.64
22 13 16 00-0743 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	88.01 19.17	42.60
22 13 16 00-0744 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	213.72 24.92	55.30
22 13 16 00-0745 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees (22 13 16 00-0721)		
22 13 16 00-0746 EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	40.15 10.48	23.26
22 13 16 00-0747 EA 2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	45.25 11.38	25.22
22 13 16 00-0748 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	42.64 11.38	25.22
22 13 16 00-0749 EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	56.87 14.19	31.53
22 13 16 00-0750 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	59.94 15.08	33.48
22 13 16 00-0751 EA 4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	88.00 15.98	35.44
22 13 16 00-0752 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	88.67 16.87	37.49
22 13 16 00-0753 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	98.95 18.28	40.56

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0754	EA	6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	222.75 23.01	51.03
22 13 16 00-0755		Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees (22 13 16 00-0721)		
22 13 16 00-0756	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	52.55 12.78	28.37
22 13 16 00-0757	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	69.06 16.36	36.30
22 13 16 00-0758	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	114.05 21.98	48.82
22 13 16 00-0759	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	150.56 25.56	56.75
22 13 16 00-0760		Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees (22 13 16 00-0721)		
22 13 16 00-0761	EA	2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	59.85 14.57	32.38
22 13 16 00-0762	EA	3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	78.72 17.38	38.59
22 13 16 00-0763	EA	3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	88.50 19.17	42.60
22 13 16 00-0764	EA	4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	120.06 19.77	43.88
22 13 16 00-0765	EA	4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	130.39 22.42	49.75
22 13 16 00-0766		Acrylonitrile Butadiene Styrene (ABS) DWV Wyes (22 13 16 00-0721)		
22 13 16 00-0767	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	38.54 9.59	21.31
22 13 16 00-0768	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	47.67 12.27	27.26
22 13 16 00-0769	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	69.94 16.49	36.64
22 13 16 00-0770	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	91.83 19.17	42.60
22 13 16 00-0771	EA	6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	185.51 24.92	55.30
22 13 16 00-0772		Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes (22 13 16 00-0721)		
22 13 16 00-0773	EA	2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	46.69 10.48	23.26
22 13 16 00-0774	EA	2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	49.56 11.38	25.22
22 13 16 00-0775	EA	3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	61.91 15.08	33.48
22 13 16 00-0776	EA	4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	78.67 16.87	37.49
22 13 16 00-0777	EA	4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	87.13 18.28	40.56
22 13 16 00-0778	EA	6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	161.32 23.01	51.03
22 13 16 00-0779		Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes (22 13 16 00-0721)		
22 13 16 00-0780	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	56.62 12.78	28.37
22 13 16 00-0781	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	72.58 16.36	36.30
22 13 16 00-0782	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	119.90 21.98	48.82
22 13 16 00-0783	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	179.68 25.56	56.75
22 13 16 00-0784		Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes (22 13 16 00-0721)		
22 13 16 00-0785	EA	2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	65.05 14.57	32.38
22 13 16 00-0786	EA	3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	90.83 17.38	38.59
22 13 16 00-0787	EA	3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	98.53 19.17	42.60
22 13 16 00-0788	EA	4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	126.51 20.96	46.53
22 13 16 00-0789	EA	4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	154.05 23.77	52.74



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
22 13 16 00-0790	Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend (22 13 16 00-0721)				
22 13 16 00-0791	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	42.48		21.31	
	For Work In Restricted Working Space, Add	9.59			
22 13 16 00-0792	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	54.59		27.26	
	For Work In Restricted Working Space, Add	12.27			
22 13 16 00-0793	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	77.51		36.64	
	For Work In Restricted Working Space, Add	16.49			
22 13 16 00-0794	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	104.55		40.18	
	For Work In Restricted Working Space, Add	18.08			
22 13 16 00-0795	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend (22 13 16 00-0721)				
22 13 16 00-0796	EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	49.00		25.22	
	For Work In Restricted Working Space, Add	11.38			
22 13 16 00-0797	EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	73.54		31.53	
	For Work In Restricted Working Space, Add	14.19			
22 13 16 00-0798	EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	66.67		33.48	
	For Work In Restricted Working Space, Add	15.08			
22 13 16 00-0799	EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	92.78		37.49	
	For Work In Restricted Working Space, Add	16.87			
22 13 16 00-0800	EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	100.49		40.56	
	For Work In Restricted Working Space, Add	18.28			
22 13 16 00-0801	Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend (22 13 16 00-0721)				
22 13 16 00-0802	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	79.32		36.30	
	For Work In Restricted Working Space, Add	16.36			
22 13 16 00-0803	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	130.42		48.82	
	For Work In Restricted Working Space, Add	21.98			
22 13 16 00-0804	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend (22 13 16 00-0721)				
22 13 16 00-0805	EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	68.51		32.38	
	For Work In Restricted Working Space, Add	14.57			
22 13 16 00-0806	EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	120.09		42.60	
	For Work In Restricted Working Space, Add	19.17			
22 13 16 00-0807	Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug (22 13 16 00-0721)				
22 13 16 00-0808	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	44.34		21.31	
	For Work In Restricted Working Space, Add	9.59			
22 13 16 00-0809	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	56.44		27.26	
	For Work In Restricted Working Space, Add	12.27			
22 13 16 00-0810	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	81.66		36.64	
	For Work In Restricted Working Space, Add	16.49			
22 13 16 00-0811	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	113.82		42.60	
	For Work In Restricted Working Space, Add	19.17			
22 13 16 00-0812	Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug (22 13 16 00-0721)				
22 13 16 00-0813	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	25.56		14.23	
	For Work In Restricted Working Space, Add	6.39			
22 13 16 00-0814	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	34.11		18.15	
	For Work In Restricted Working Space, Add	8.18			
22 13 16 00-0815	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	47.17		24.36	
	For Work In Restricted Working Space, Add	10.99			
22 13 16 00-0816	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	67.40		28.37	
	For Work In Restricted Working Space, Add	12.78			
22 13 16 00-0817	EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	123.46		36.89	
	For Work In Restricted Working Space, Add	16.61			
22 13 16 00-0818	Acrylonitrile Butadiene Styrene (ABS) DWV Couplings (22 13 16 00-0721)				
22 13 16 00-0819	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	22.77		14.23	
	For Work In Restricted Working Space, Add	6.39			
22 13 16 00-0820	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	28.80		18.15	
	For Work In Restricted Working Space, Add	8.18			
22 13 16 00-0821	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	40.84		24.36	
	For Work In Restricted Working Space, Add	10.99			
22 13 16 00-0822	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	49.52		28.37	
	For Work In Restricted Working Space, Add	12.78			
22 13 16 00-0823	EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	89.59		36.89	
	For Work In Restricted Working Space, Add	16.61			



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0824		Acrylonitrile Butadiene Styrene (ABS) DWV Reducers (22 13 16 00-0721)		
22 13 16 00-0825	EA	2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	27.99 7.28	16.19
22 13 16 00-0826	EA	3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	40.73 8.69	19.25
22 13 16 00-0827	EA	3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	41.81 9.59	21.31
22 13 16 00-0828	EA	4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	54.39 10.48	23.26
22 13 16 00-0829	EA	4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	59.98 11.89	26.42
22 13 16 00-0830		Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0721)		
22 13 16 00-0831	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	39.14 9.59	21.31
22 13 16 00-0832	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	52.54 12.27	27.26
22 13 16 00-0833	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	108.30 16.49	36.64
22 13 16 00-0834	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	173.18 19.17	42.60
22 13 16 00-0835		Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0721)		
22 13 16 00-0836	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	52.64 12.78	28.37
22 13 16 00-0837	EA	4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	49.04 11.89	26.42
22 13 16 00-0838		Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0721)		
22 13 16 00-0839	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	12.52 3.20	7.07
22 13 16 00-0840	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	16.95 4.09	9.12
22 13 16 00-0841	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	27.97 5.50	12.19
22 13 16 00-0842	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	42.65 6.39	14.23
22 13 16 00-0843		Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0721)		
22 13 16 00-0844	EA	2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	25.82 7.28	16.19
22 13 16 00-0845	EA	3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	37.30 8.69	19.25
22 13 16 00-0846	EA	3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	37.24 9.59	21.31
22 13 16 00-0847	EA	4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	54.12 10.48	23.26
22 13 16 00-0848	EA	4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	50.74 11.89	26.42
22 13 16 00-0849	EA	6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	89.82 13.86	30.78
22 13 16 00-0850		Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0721)		
22 13 16 00-0851	EA	1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	38.35 6.39	14.23
22 13 16 00-0852	EA	2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	45.44 8.18	18.15
22 13 16 00-0853	EA	3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	55.95 10.99	24.36
22 13 16 00-0854	EA	4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	63.05 12.78	28.37
22 13 16 00-0855		Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe (22 13 16 00-0708) Note: In place piping.		
22 13 16 00-0856	EA	1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	6.25	
22 13 16 00-0857	EA	2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	6.87	
22 13 16 00-0858	EA	3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	8.75	
22 13 16 00-0859	EA	4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	11.80	
22 13 16 00-0860	EA	6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	16.87	
22 13 16 00-0861		Elastomeric Flexible Pipe Couplings (22 13 16)		



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0862 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings (22 13 16 00-0861) Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps. Fernco 1056.		
22 13 16 00-0863 EA 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling.....	10.67	3.70
For Work In Restricted Working Space, Add	2.22	
22 13 16 00-0864 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling.....	11.49	3.93
For Work In Restricted Working Space, Add	2.36	
22 13 16 00-0865 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling.....	12.08	4.16
For Work In Restricted Working Space, Add	2.50	
22 13 16 00-0866 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling.....	13.86	4.40
For Work In Restricted Working Space, Add	2.64	
22 13 16 00-0867 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling.....	15.60	4.63
For Work In Restricted Working Space, Add	2.78	
22 13 16 00-0868 EA 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling.....	19.67	4.86
For Work In Restricted Working Space, Add	2.92	
22 13 16 00-0869 EA 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling.....	23.76	5.09
For Work In Restricted Working Space, Add	3.05	
22 13 16 00-0870 EA 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling.....	32.00	5.55
For Work In Restricted Working Space, Add	3.33	
22 13 16 00-0871 EA 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling.....	42.00	6.48
For Work In Restricted Working Space, Add	3.89	
22 13 16 00-0872 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings (22 13 16 00-0861) Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps. Fernco 1056.		
22 13 16 00-0873 EA 1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	11.36	3.93
For Work In Restricted Working Space, Add	2.36	
22 13 16 00-0874 EA 2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	12.30	4.16
For Work In Restricted Working Space, Add	2.50	
22 13 16 00-0875 EA 3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	14.91	4.40
For Work In Restricted Working Space, Add	2.64	
22 13 16 00-0876 EA 3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	13.48	4.40
For Work In Restricted Working Space, Add	2.64	
22 13 16 00-0877 EA 4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	18.18	4.63
For Work In Restricted Working Space, Add	2.78	
22 13 16 00-0878 EA 4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	17.45	4.63
For Work In Restricted Working Space, Add	2.78	
22 13 16 00-0879 EA 4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	16.09	4.63
For Work In Restricted Working Space, Add	2.78	
22 13 16 00-0880 EA 5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	22.86	4.86
For Work In Restricted Working Space, Add	2.92	
22 13 16 00-0881 EA 5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	20.78	4.86
For Work In Restricted Working Space, Add	2.92	
22 13 16 00-0882 EA 6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	28.05	5.09
For Work In Restricted Working Space, Add	3.05	
22 13 16 00-0883 EA 6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	24.95	5.09
For Work In Restricted Working Space, Add	3.05	
22 13 16 00-0884 EA 6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	25.81	5.09
For Work In Restricted Working Space, Add	3.05	
22 13 16 00-0885 EA 8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	50.48	9.25
For Work In Restricted Working Space, Add	5.55	
22 13 16 00-0886 EA 8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	41.87	9.25
For Work In Restricted Working Space, Add	5.55	
22 13 16 00-0887 EA 10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling.....	52.63	10.41
For Work In Restricted Working Space, Add	6.25	
22 13 16 00-0888 Elastomeric Flexible Pipe Caps (22 13 16) Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp. Fernco QC.		
22 13 16 00-0889 EA 1-1/2" Elastomeric Flexible Pipe Cap.....	40.49	25.00
22 13 16 00-0890 EA 2" Elastomeric Flexible Pipe Cap.....	43.40	26.57
22 13 16 00-0891 EA 3" Elastomeric Flexible Pipe Cap.....	50.21	30.45
22 13 16 00-0892 EA 4" Elastomeric Flexible Pipe Cap.....	66.27	40.27
22 13 16 00-0893 EA 5" Elastomeric Flexible Pipe Cap.....	79.41	48.14
22 13 16 00-0894 EA 6" Elastomeric Flexible Pipe Cap.....	91.66	55.54
22 13 16 00-0895 EA 8" Elastomeric Flexible Pipe Cap.....	122.39	70.35
22 13 16 00-0896 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (22 13 16) Note: Josam 26450 Series.		
22 13 16 00-0897 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	66.79	19.17
22 13 16 00-0898 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	71.05	21.31
22 13 16 00-0899 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	104.15	27.70
22 13 16 00-0900 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	121.83	31.95
22 13 16 00-0901 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	141.51	36.21
22 13 16 00-0902 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	227.25	40.48
22 13 16 00-0903 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (22 13 16) Note: Josam 26440 Series		

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0904	EA	1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	126.74	19.17
22 13 16 00-0905	EA	2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	131.00	21.31
22 13 16 00-0906	EA	3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	156.99	27.70
22 13 16 00-0907	EA	4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	194.98	31.95
22 13 16 00-0908	EA	5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	262.43	36.21
22 13 16 00-0909	EA	6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	270.95	40.48
22 13 16 00-0910 Cast Iron Vandal Proof Hooded Vent Cap (22 13 16)				
Note: Includes counterflashing collar, deep protective hood and recessed securing screws. Josam 26700 Series.				
22 13 16 00-0911	EA	1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	233.42	19.17
22 13 16 00-0912	EA	2" Cast Iron Vandal Proof Hooded Vent Cap.....	237.68	21.31
22 13 16 00-0913	EA	3" Cast Iron Vandal Proof Hooded Vent Cap.....	274.85	27.70
22 13 16 00-0914	EA	4" Cast Iron Vandal Proof Hooded Vent Cap.....	309.79	31.95
22 13 16 00-0915	EA	5" Cast Iron Vandal Proof Hooded Vent Cap.....	360.99	36.21
22 13 16 00-0916	EA	6" Cast Iron Vandal Proof Hooded Vent Cap.....	394.91	40.48
22 13 19 Sanitary Waste Piping Specialties (22 13)				
22 13 19 13 Sanitary Drains (22 13 19)				
22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)				
22 13 19 13-0002	EA	6" Round Top Floor Drain With 1-1/2" Outlet, Bronze Top.....	335.06	91.60
		For Vandal Proof Screws, Add	11.00	
		For Galvanized Cast Iron Parts, Add	40.00	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0003	EA	6" Round Top Floor Drain With 2" Outlet, Bronze Top.....	370.79	102.67
		For Vandal Proof Screws, Add	11.00	
		For Galvanized Cast Iron Parts, Add	40.00	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0004	EA	6" Round Top Floor Drain With 3" Outlet, Bronze Top.....	379.11	113.58
		For Vandal Proof Screws, Add	11.00	
		For Galvanized Cast Iron Parts, Add	40.00	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0005	EA	6" Round Top Floor Drain With 4" Outlet, Bronze Top.....	402.51	125.33
		For Vandal Proof Screws, Add	11.00	
		For Galvanized Cast Iron Parts, Add	40.00	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0006	EA	9" Round Top Floor Drain With 2" Outlet, Cast Iron Top.....	350.21	102.67
		For Vandal Proof Screws, Add	30.50	
		For Ductile Iron Grate, Add	48.00	
		For Cast Iron Dome Grate, Add	17.00	
		For Nikaloy Dome Grate, Add	178.50	
		For Bronze Dome Grate, Add	143.00	
		For Cast Iron Extension Collar, Each 3", Add	57.50	
		For Galvanized Extension Collar, Each 3", Add	117.50	
		For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0007	EA	9" Round Top Floor Drain With 3" Outlet, Cast Iron Top.....	372.11	113.58
		For Vandal Proof Screws, Add	30.50	
		For Ductile Iron Grate, Add	48.00	
		For Cast Iron Dome Grate, Add	17.00	
		For Nikaloy Dome Grate, Add	178.50	
		For Bronze Dome Grate, Add	143.00	
		For Cast Iron Extension Collar, Each 3", Add	57.50	
		For Galvanized Extension Collar, Each 3", Add	117.50	
		For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0008	EA	9" Round Top Floor Drain With 4" Outlet, Cast Iron Top.....	395.51	125.33
		For Vandal Proof Screws, Add	30.50	
		For Ductile Iron Grate, Add	48.00	
		For Cast Iron Dome Grate, Add	17.00	
		For Nikaloy Dome Grate, Add	178.50	
		For Bronze Dome Grate, Add	143.00	
		For Cast Iron Extension Collar, Each 3", Add	57.50	
		For Galvanized Extension Collar, Each 3", Add	117.50	
		For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0009	EA	9" Round Top Floor Drain With 2" Outlet, Nikaloy Top.....	494.41	102.67
		For Vandal Proof Screws, Add	30.50	
		For Ductile Iron Grate, Add	48.00	
		For Cast Iron Dome Grate, Add	17.00	
		For Nikaloy Dome Grate, Add	178.50	
		For Bronze Dome Grate, Add	143.00	
		For Cast Iron Extension Collar, Each 3", Add	57.50	
		For Galvanized Extension Collar, Each 3", Add	117.50	
		For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0010	EA	9" Round Top Floor Drain With 3" Outlet, Nikaloy Top.....	516.31	113.58
		For Vandal Proof Screws, Add	30.50	
		For Ductile Iron Grate, Add	48.00	
		For Cast Iron Dome Grate, Add	17.00	
		For Nikaloy Dome Grate, Add	178.50	
		For Bronze Dome Grate, Add	143.00	
		For Cast Iron Extension Collar, Each 3", Add	57.50	
		For Galvanized Extension Collar, Each 3", Add	117.50	
		For Galvanized Cast Iron Parts, Add	87.50	



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Plumbing Piping			22 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0011	EA		9" Round Top Floor Drain With 4" Outlet, Nikaloy Top	539.71	125.33
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0012	EA		9" Round Top Floor Drain With 2" Outlet, Bronze Top	473.41	102.67
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0013	EA		9" Round Top Floor Drain With 3" Outlet, Bronze Top	495.19	113.58
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0014	EA		9" Round Top Floor Drain With 4" Outlet, Bronze Top	518.71	125.33
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0015	EA		12-5/8" Round Top Floor Drain With 2" Outlet, Cast Iron Top	506.91	102.59
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0016	EA		12-5/8" Round Top Floor Drain With 3" Outlet, Cast Iron Top	528.79	113.58
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0017	EA		12-5/8" Round Top Floor Drain With 4" Outlet, Cast Iron Top	552.31	125.33
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0018	EA		12-5/8" Round Top Floor Drain With 2" Outlet, Nikaloy Top	722.51	102.59
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0019	EA		12-5/8" Round Top Floor Drain With 3" Outlet, Nikaloy Top	744.39	113.58
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0020 EA 12-5/8" Round Top Floor Drain With 4" Outlet, Nikaloy Top	767.91	125.33
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0021 EA 12-5/8" Round Top Floor Drain With 2" Outlet, Bronze Top.....	693.81	102.59
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0022 EA 12-5/8" Round Top Floor Drain With 3" Outlet, Bronze Top.....	715.69	113.58
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0023 EA 12-5/8" Round Top Floor Drain With 4" Outlet, Bronze Top.....	739.21	125.33
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0024 Square Or Rectangular Top Drains (22 13 19 13)		
22 13 19 13-0025 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	390.01	102.59
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0026 EA 5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	412.13	113.66
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0027 EA 5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	435.41	125.33
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0028 EA 6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	411.01	102.59
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0029 EA 6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	433.13	113.66
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0030 EA 6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	456.41	125.33
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0031 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	503.41	102.59
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0032 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	525.53	113.66
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0033 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	548.81	125.33
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0034 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	374.61	102.59
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0035 EA 5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	396.73	113.66
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	420.01	125.33
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	401.21	102.59
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....	423.33	113.66
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....	446.61	125.33
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top.....	476.11	102.59
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	498.23	113.66
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top.....	521.51	125.33
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top.....	1,038.63	113.66
			For Galvanized Cast Iron Parts, Add	212.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top.....	1,061.91	125.33
			For Galvanized Cast Iron Parts, Add	212.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top.....	1,266.83	113.66
			For Galvanized Cast Iron Parts, Add	212.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top.....	1,290.11	125.33
			For Galvanized Cast Iron Parts, Add	212.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0047	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top.....	1,239.53	113.66
			For Galvanized Cast Iron Parts, Add	212.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0048	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top.....	1,262.81	125.33
			For Galvanized Cast Iron Parts, Add	212.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0049	EA		5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	509.01	102.59
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0050	EA		5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	531.13	113.66
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0051	EA		5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	554.41	125.33
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0052	EA		5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	617.51	102.59
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0053	EA		5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	639.63	113.66
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0054	EA		5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	662.91	125.33
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0055	EA		5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	642.71	102.59
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0056	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	664.83	113.66
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0057	EA	5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	688.11	125.33
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0058	EA	5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	838.01	102.59
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0059	EA	5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	860.13	113.66
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0060	EA	5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	883.41	125.33
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0061	EA	5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	486.61	102.59
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0062	EA	5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	508.73	113.66
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0063	EA	5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	532.01	125.33
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0064	EA	5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	579.01	102.59
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0065	EA	5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	601.13	113.66
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0066	EA	5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	624.41	125.33
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0067	EA	5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	604.21	102.59
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0068	EA	5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	626.33	113.66
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0069	EA	5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top.....	649.61	125.33
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0070	EA	5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top.....	763.11	102.59
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0071	EA	5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top.....	785.23	113.66
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0072	EA	5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top.....	808.51	125.33
		For Vandal Proof Screws, Add	11.00	
		For Rough Bronze Body, Add	120.94	
		For Sediment Bucket, Add	22.50	
22 13 19 13-0073		Funnel Type Floor Drains (22 13 19 13)		
22 13 19 13-0074	EA	7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top.....	473.74	91.60
		For Vandal Proof Screws, Add	11.00	
		For Galvanized Cast Iron Parts, Add	40.00	
		For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0075	EA	7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top.....	495.71	102.59
		For Vandal Proof Screws, Add	11.00	
		For Galvanized Cast Iron Parts, Add	40.00	
		For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0076	EA	7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top.....	517.59	113.58
		For Vandal Proof Screws, Add	11.00	
		For Galvanized Cast Iron Parts, Add	40.00	
		For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0077	EA	7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top.....	541.11	125.33
		For Vandal Proof Screws, Add	11.00	
		For Galvanized Cast Iron Parts, Add	40.00	
		For Satin Finish Bronze Top, Deduct	-19.50	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top.....	653.21	102.59
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top.....	675.09	113.58
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top.....	698.61	125.33
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top	625.91	102.59
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top	647.79	113.58
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top	671.31	125.33
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	40.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0084			Floor Drain With Sediment Bucket Bottom Outlet (22 13 19 13)		
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap.....	874.06	91.60
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
			For Primer Tap, Add	33.50	
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap.....	896.11	102.59
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
			For Primer Tap, Add	33.50	
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap.....	917.99	113.58
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
			For Primer Tap, Add	33.50	
22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap.....	941.51	125.33
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
			For Primer Tap, Add	33.50	
22 13 19 13-0089	EA		12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap.....	965.75	137.44
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
			For Primer Tap, Add	33.50	
22 13 19 13-0090	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	949.31	102.59
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0091	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	971.43	113.66
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0092	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	994.71	125.33
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0093	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	1,018.95	137.44
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0094	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate	633.61	102.59
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0095	EA	12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	655.73	113.66	
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	182.50		
22 13 19 13-0096	EA	12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	679.01	125.33	
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	182.50		
22 13 19 13-0097	EA	12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	703.25	137.44	
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	182.50		
22 13 19 13-0098	EA	12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	894.71	102.59	
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	182.50		
22 13 19 13-0099	EA	12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	916.83	113.66	
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	182.50		
22 13 19 13-0100	EA	12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	940.11	125.33	
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	182.50		
22 13 19 13-0101	EA	12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	964.35	137.44	
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	182.50		
22 13 19 13-0102		Other Drains (22 13 19 13)			
22 13 19 13-0103		Shower Drains (22 13 19 13-0102)			
22 13 19 13-0104	EA	4-1/4" Stainless Steel Shower Drain Strainer.....	32.53	9.25	
		Note: Includes two 2-5/8" screws.			
22 13 19 13-0105	EA	4-1/4" Brass Shower Drain Strainer.....	35.79	9.25	
		Note: Includes two 2-5/8" screws.			
22 13 19 13-0106	EA	4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	76.25	18.51	
		Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.			
22 13 19 13-0107	EA	4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	94.98	18.51	
		Note: For 2" pipe. Kohler K-9132.			
22 13 19 13-0108		Acid Resistant Floor Drains (22 13 19 13-0102)			
22 13 19 13-0109	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	476.46	91.60	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	87.50		
		For Primer Tap, Add	33.50		
22 13 19 13-0110	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	498.51	102.59	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	87.50		
		For Primer Tap, Add	33.50		
22 13 19 13-0111	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	520.39	113.58	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	87.50		
		For Primer Tap, Add	33.50		
22 13 19 13-0112		Rotary And Lever Drains (22 13 19 13-0102)			
22 13 19 13-0113	EA	1-1/2" Drain, 3" Sink Opening Lever Drain.....	197.67	61.77	
22 13 19 13-0114	EA	2" Drain, 3" Sink Opening Lever Drain.....	210.45	68.16	
22 13 19 13-0115	EA	1-1/2" Drain, 3-1/2" Sink Opening Lever Drain.....	197.67	61.77	
22 13 19 13-0116	EA	2" Drain, 3-1/2" Sink Opening Lever Drain.....	210.45	68.16	
22 13 19 13-0117	EA	1-1/2" Drain, 3" Sink Opening Twist Drain.....	197.67	61.77	
22 13 19 13-0118	EA	2" Drain, 3" Sink Opening Twist Drain.....	210.45	68.16	
22 13 19 13-0119	EA	1-1/2" Drain, 3-1/2" Sink Opening Twist Drain.....	197.67	61.77	
22 13 19 13-0120	EA	2" Drain, 3-1/2" Sink Opening Twist Drain.....	210.45	68.16	
22 13 19 13-0121	EA	1-1/2"-2" Drain, 3-1/2" Sink Opening Rotary Twist Drain (Fisher 16100).....	267.64	68.16	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0122			Floor Receptor (22 13 19 13)		
22 13 19 13-0123			9" Diameter Round Shallow Receptor (22 13 19 13-0122) Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	572.15 58.50 97.00 38.00 36.00 33.50 47.00 62.50	102.67
22 13 19 13-0125	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	594.38 58.50 97.00 38.00 36.00 33.50 47.00 62.50	113.75
22 13 19 13-0126	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	617.41 58.50 97.00 38.00 36.00 33.50 47.00 62.50	125.33
22 13 19 13-0127			Square Top Floor Receptors (22 13 19 13-0122) Note: With acid resistant coating.		
22 13 19 13-0128	EA		8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	636.84 37.50 69.00 39.50 36.00 15.50 88.00 97.00	91.60
22 13 19 13-0129	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top..... For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	658.91 37.50 69.00 39.50 36.00 15.50 88.00 97.00	102.67
22 13 19 13-0130	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top..... For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	680.69 37.50 69.00 39.50 36.00 15.50 88.00 97.00	113.58
22 13 19 13-0131	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top..... For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	704.21 37.50 69.00 39.50 36.00 15.50 88.00 97.00	125.33
22 13 19 13-0132			Floor Drain Accessories (22 13 19 13)		
22 13 19 13-0133	EA		3" Trap Guard Floor Drain Insert (ProVent TG3H)..... Note: Prevents emission of sewer gases.	67.58	10.65
22 13 19 13-0134	EA		2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22) Note: Prevents emission of sewer gases.	56.01	10.65
22 13 19 13-0135	EA		3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33) Note: Prevents emission of sewer gases.	60.64	10.65
22 13 19 13-0136	EA		3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP)..... Note: Prevents emission of sewer gases.	72.21	10.65
22 13 19 13-0137	EA		3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP)..... Note: Prevents emission of sewer gases.	65.27	10.65
22 13 19 13-0138	EA		2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02) Note: Prevents emission of sewer gases.	90.90	10.65
22 13 19 13-0139	EA		3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03) Note: Prevents emission of sewer gases.	100.21	10.65
22 13 19 13-0140	EA		4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04) Note: Prevents emission of sewer gases.	123.33	10.65



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 19 26 Grease Removal Devices (22 13 19)

22 13 19 26-0001	Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
	Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002	Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)		
	Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003	EA 7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	766.33	63.91
	Note: Josam 60102H.		
	For Steel Enclosure Cabinet With Non Skid Cover, Add	1,286.21	
22 13 19 26-0004	EA 10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	891.96	143.78
	Note: Josam 60103H.		
	For Flange And Clamp Device, Add	356.02	
	For Steel Enclosure Cabinet With Non Skid Cover, Add	1,357.23	
22 13 19 26-0005	EA 15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,249.78	159.76
	Note: Josam 60104H.		
	For Flange And Clamp Device, Add	366.67	
	For Steel Enclosure Cabinet With Non Skid Cover, Add	1,481.68	
22 13 19 26-0006	EA 20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,503.30	175.73
	Note: Josam 60105H.		
	For Flange And Clamp Device, Add	377.32	
	For Steel Enclosure Cabinet With Non Skid Cover, Add	1,600.70	
22 13 19 26-0007	EA 25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,681.28	191.72
	Note: Josam 60106H.		
	For Flange And Clamp Device, Add	418.37	
	For Steel Enclosure Cabinet With Non Skid Cover, Add	1,665.00	
22 13 19 26-0008	EA 35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,060.41	223.67
	Note: Josam 60107H.		
	For Flange And Clamp Device, Add	450.87	
	For Steel Enclosure Cabinet With Non Skid Cover, Add	1,829.43	
22 13 19 26-0009	EA 50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,674.55	255.62
	Note: Josam 60108H.		
	For Flange And Clamp Device, Add	513.13	
	For Steel Enclosure Cabinet With Non Skid Cover, Add	1,946.82	
22 13 19 26-0010	EA 75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	5,179.58	287.57
	Note: Josam 60109H.		
	For Flange And Clamp Device, Add	735.71	
22 13 19 26-0011	EA 100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	5,840.58	333.68
	Note: Josam 60110H.		
	For Flange And Clamp Device, Add	830.45	
22 13 19 26-0012	EA 150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	7,242.22	533.88
	Note: Josam 60213A.		
	For Flange And Clamp Device, Add	1,123.93	
22 13 19 26-0013	EA 200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	10,363.43	667.35
	Note: Josam 60214A.		
	For Flange And Clamp Device, Add	1,342.19	
22 13 19 26-0014	EA 250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	12,095.74	800.83
	Note: Josam 60215A.		
	For Flange And Clamp Device, Add	1,744.13	
22 13 19 26-0015	EA 350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	15,685.37	934.29
	Note: Josam 60216A.		
	For Flange And Clamp Device, Add	2,070.87	
22 13 19 26-0016	EA 500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	20,251.42	1,067.77
	Note: Josam 60217A.		
	For Flange And Clamp Device, Add	2,433.13	
22 13 19 26-0017	Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)		
	Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018	EA 20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	2,136.40	175.73
	Note: Josam 60115A.		
22 13 19 26-0019	EA 35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	2,747.46	223.67
	Note: Josam 60117A.		
22 13 19 26-0020	EA 50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	4,490.70	255.62
	Note: Smith 8150.		
22 13 19 26-0021	Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
	Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022	Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021)		
	Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023	EA 7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor	1,867.85	63.91
	Note: Josam 60102-SA.		
	For Steel Enclosure Cabinet With Non Skid Cover, Add	1,286.21	
22 13 19 26-0024	EA 10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor	2,194.12	143.78
	Note: Josam 60103-SA.		
	For Steel Enclosure Cabinet With Non Skid Cover, Add	1,357.23	
22 13 19 26-0025	EA 15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor	2,346.50	159.76
	Note: Josam 60104-SA.		
	For Steel Enclosure Cabinet With Non Skid Cover, Add	1,481.68	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0026 EA 20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA. For Steel Enclosure Cabinet With Non Skid Cover, Add	2,856.62 1,600.70	175.73
22 13 19 26-0027 EA 25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA. For Steel Enclosure Cabinet With Non Skid Cover, Add	3,436.27 1,665.00	191.72
22 13 19 26-0028 EA 35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA. For Steel Enclosure Cabinet With Non Skid Cover, Add	3,562.41 1,829.43	223.67
22 13 19 26-0029 EA 50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA. For Steel Enclosure Cabinet With Non Skid Cover, Add	4,066.64 1,946.82	255.62
22 13 19 26-0030 Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031 EA 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60115A-SA.	4,758.25	223.67
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor (22 13 19 26) Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer.		
22 13 19 26-0033 EA 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Lowe Engineering 20 Greasestopper.	4,101.64	175.73
22 13 19 26-0034 EA 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Lowe Engineering 25 Greasestopper.	4,757.20	191.72
22 13 19 26-0035 Precast Concrete Grease Interceptor (22 13 19 26) Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0036 EA 1,000 Gallon Pre-Cast Grease Interceptor	4,725.49	298.27
22 13 19 26-0037 EA 1,250 Gallon Pre-Cast Grease Interceptor	5,414.38	298.27
22 13 19 26-0038 EA 1,500 Gallon Pre-Cast Grease Interceptor	6,144.80	340.99
22 13 19 26-0039 EA 2,000 Gallon Pre-Cast Grease Interceptor	6,975.67	481.56
22 13 19 26-0040 EA 2,500 Gallon Pre-Cast Grease Interceptor	7,835.01	647.90
22 13 19 26-0041 EA 4,000 Gallon Pre-Cast Grease Interceptor	11,773.28	852.43
22 13 19 26-0042 EA 5,000 Gallon Pre-Cast Grease Interceptor	15,059.97	1,397.84
22 13 19 26-0043 Coated Steel Manual Oil Interceptor (22 13 19 26) Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0044 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	2,865.19	243.45
22 13 19 26-0045 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	3,841.99	289.27
22 13 19 26-0046 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	4,654.51	355.92
22 13 19 26-0047 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	5,055.05	385.54
22 13 19 26-0048 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	6,047.65	420.72
22 13 19 26-0049 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	7,930.51	462.83
22 13 19 26-0050 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	13,196.90	532.54
22 13 19 26-0051 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	14,461.57	655.24
22 13 19 26-0052 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	17,712.75	710.19
22 13 19 26-0053 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	24,723.10	852.05
22 13 19 26-0054 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	28,490.17	915.96
22 13 19 26-0055 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	35,861.55	1,092.34
22 13 19 26-0056 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	43,107.93	895.09
22 13 19 26-0057 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	51,068.40	1,065.07
22 13 19 33 Backwater Valves (22 13 19)		
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve	231.02	24.46
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve	240.39	30.76
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve	344.63	40.90
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve	894.02	56.18
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve	1,096.35	73.94
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve	3,098.83	91.22
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve	3,519.36	118.30
22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33) Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	581.99	58.32
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	872.56	70.72
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,082.50	91.17
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,496.41	102.07
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,057.41	120.96
22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33) Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	1,507.86	92.28
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	1,553.53	122.70
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,243.44	151.17
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,269.71	168.53
22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	91.31	30.76
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	111.19	40.90
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	296.90	56.18
22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	210.56	61.52
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	280.38	81.80
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	470.46	112.35
Note: Includes valve body, flapper assembly and collar.		
22 13 19 36 Air-Admittance Valves (22 13 19)		
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC)		
Automatic Drain Vent (22 13 19 36)		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	131.70	11.93
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	156.50	11.93
22 13 23 Sanitary Waste Interceptors (22 13)		
22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180).....	742.65	120.66
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184).....	743.53	120.66
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,030.21	120.66
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARIO).....	1,030.21	120.66
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,095.11	120.66
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	294.98	41.28
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	300.26	43.97
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0010 Sediment Strainers (22 13 23)		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	125.85	56.40
22 13 29 Sanitary Sewerage Pumps (22 13)		
Note: Includes extra set of gaskets, bearings and seals.		
22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)		
22 13 29 13-0001 Vertical Non-Clog Sewage Pumps (22 13 29 13)		
22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)		
22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	4,480.34	1,022.12
22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	4,630.07	1,022.12
22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	4,779.80	1,022.12
22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	4,922.63	1,022.12
22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)		
22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	4,894.98	1,022.12



	Plumbing	22	22
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	4,952.58	1,022.12
22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	4,992.89	1,022.12
22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,269.32	1,022.12
22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,539.99	1,022.12
22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,954.64	1,022.12
22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,369.29	1,022.12
22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,460.14	1,360.23
22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)		
22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	5,183.55	1,022.12
22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	5,183.55	1,022.12
22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	5,283.32	1,022.12
22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,057.52	1,022.12
22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,193.32	1,022.12
22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,507.91	1,360.23
22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,853.45	1,360.23
22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	519.49	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	623.75	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	697.18	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	709.88	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	796.91	
22 13 29 13-0030 Float Switches (22 13 29 13-0001)		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	466.91	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	490.48	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	501.36	
22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	476.04	34.09
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	527.17	38.34
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	730.42	51.12
22 13 29 13-0038 EA 40" Steel Sump Covers, Square Or Round.....	1,052.45	59.65
22 13 29 13-0039 EA 42" Steel Sump Covers, Square Or Round.....	1,127.10	61.77
22 13 29 13-0040 EA 48" Steel Sump Covers, Square Or Round.....	1,204.22	63.91
22 13 29 13-0041 EA 54" Steel Sump Covers, Square Or Round.....	1,531.56	76.69
22 13 29 13-0042 EA 60" Steel Sump Covers, Square Or Round.....	2,064.83	85.21
22 13 29 13-0043 EA 72" Steel Sump Covers, Square Or Round.....	2,618.31	106.51
22 13 29 13-0044 EA 84" Steel Sump Covers, Square Or Round.....	3,318.92	117.15
22 13 29 16 Submersible Sewerage Pumps (22 13 29)		
Note: Includes 25' of cord with pumps unless otherwise noted.		
22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)		
22 13 29 16-0002 Submersible Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)		
22 13 29 16-0003 EA 1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	509.16	62.02
22 13 29 16-0004 EA 1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	659.59	62.02
22 13 29 16-0005 EA 1 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	795.39	77.53
22 13 29 16-0006 Submersible Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)		
22 13 29 16-0007 EA 1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	749.93	62.02
22 13 29 16-0008 EA 1 HP Submersible Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	918.28	77.53
22 13 29 16-0009 EA 1-1/2 HP Submersible Sewage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,121.02	124.97
22 13 29 16-0010 EA 2 HP Submersible Sewage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,237.58	152.73
22 13 29 16-0011 Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16)		
22 13 29 16-0012 EA 1 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,604.73	77.53
22 13 29 16-0013 EA 1.5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,782.64	124.79
22 13 29 16-0014 EA 2 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	2,298.94	152.52
22 13 29 16-0015 EA 3 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	2,674.51	184.87

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0016	EA	5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	3,116.78	217.23
22 13 29 16-0017	EA	7.5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	3,260.09	249.58
22 13 29 16-0018		Submersible Sewage Pumps Accessories (22 13 29 16)		
22 13 29 16-0019	EA	Simplex Single Phase Plug In Controller With NEMA 4X Enclosure For Non-Automatic Submersible Sewage Pump	301.64	68.62
		Note: Includes alarm horn, warning light, and single control float switches.		
22 13 29 16-0020	EA	Simplex Single Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump	695.69	91.50
		Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0021	EA	Simplex Three Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump	898.81	91.50
		Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0022	EA	Duplex Alarm System And Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump	1,005.43	114.37
		Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0023	EA	High-water Alarm For Submersible Sewage Pump	231.13	45.75
22 13 29 16-0024	EA	Float Switch For Submersible Sewage Pump	87.82	22.88
22 13 29 16-0025	EA	Rail System With 2" Discharge For Submersible Sewage Pump	431.13	68.62
22 13 29 33		Sewerage Pump Basins And Pits (22 13 29)		
22 13 29 33-0001		Sewage Sump Pump Basin (22 13 29 33)		
22 13 29 33-0002		High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)		
22 13 29 33-0003	EA	18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	109.32	
22 13 29 33-0004	EA	18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	140.81	
22 13 29 33-0005	EA	24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	316.58	
22 13 29 33-0006	EA	24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	443.35	
22 13 29 33-0007	EA	30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	570.13	
22 13 29 33-0008	EA	36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	662.87	
22 13 29 33-0009		Fiberglass Basin (22 13 29 33-0001)		
22 13 29 33-0010	EA	18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	192.74	
22 13 29 33-0011	EA	24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	374.56	
22 13 29 33-0012	EA	30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	659.99	
22 13 29 33-0013	EA	36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	881.97	
22 13 29 33-0014	EA	36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	1,014.10	
22 13 29 33-0015	EA	36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub	1,071.22	
22 13 29 33-0016	EA	36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub	1,255.15	
22 13 29 33-0017	EA	48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	1,456.03	
22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities (22)				
22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities (22 60)				
22 66 53 Laboratory Chemical-Waste And Vent Piping (22 66)				
22 66 53 00-0001		Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
22 66 53 00-0002		Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fusal Fittings (22 66 53 00-0001)		
22 66 53 00-0003		Schedule 40 Polypropylene Acid Resistant DWV Pipe (22 66 53 00-0002)		
22 66 53 00-0004	LF	1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe	15.06	4.86
		For Schedule 80, Add	4.02	
		For Fire Retardant Thermoplastic Pipe (Proxylene), Add	3.44	
		For Work In Restricted Working Space, Add	2.20	
22 66 53 00-0005	LF	2" Schedule 40 Polypropylene Acid Resistant DWV Pipe	18.69	5.45
		For Schedule 80, Add	5.44	
		For Fire Retardant Thermoplastic Pipe (Proxylene), Add	4.65	
		For Work In Restricted Working Space, Add	2.47	
22 66 53 00-0006	LF	3" Schedule 40 Polypropylene Acid Resistant DWV Pipe	30.81	7.92
		For Schedule 80, Add	9.82	
		For Fire Retardant Thermoplastic Pipe (Proxylene), Add	8.41	
		For Work In Restricted Working Space, Add	3.58	
22 66 53 00-0007	LF	4" Schedule 40 Polypropylene Acid Resistant DWV Pipe	42.31	10.31
		For Schedule 80, Add	13.95	
		For Fire Retardant Thermoplastic Pipe (Proxylene), Add	11.93	
		For Work In Restricted Working Space, Add	4.65	
22 66 53 00-0008	LF	6" Schedule 40 Polypropylene Acid Resistant DWV Pipe	71.06	15.17
		For Schedule 80, Add	25.14	
		For Fire Retardant Thermoplastic Pipe (Proxylene), Add	21.51	
		For Work In Restricted Working Space, Add	6.82	



	Plumbing	22	
Gas And Vacuum Systems For Laboratory And Healthcare Facilities	22 60		22
Chemical-Waste Systems For Laboratory And Healthcare Facilities	22 66		

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0009 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends (22 66 53 00-0002)		
22 66 53 00-0010 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	58.69	18.32
For Work In Restricted Working Space, Add	8.24	
22 66 53 00-0011 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	75.02	24.19
For Work In Restricted Working Space, Add	10.88	
22 66 53 00-0012 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	107.36	27.70
For Work In Restricted Working Space, Add	12.47	
22 66 53 00-0013 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	159.71	36.64
For Work In Restricted Working Space, Add	16.49	
22 66 53 00-0014 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	338.56	54.10
For Work In Restricted Working Space, Add	24.34	
22 66 53 00-0015 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0016 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	58.15	18.32
For Work In Restricted Working Space, Add	8.24	
22 66 53 00-0017 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	73.61	24.19
For Work In Restricted Working Space, Add	10.88	
22 66 53 00-0018 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	110.05	27.70
For Work In Restricted Working Space, Add	12.47	
22 66 53 00-0019 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	132.64	36.64
For Work In Restricted Working Space, Add	16.49	
22 66 53 00-0020 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	296.61	54.10
For Work In Restricted Working Space, Add	24.34	
22 66 53 00-0021 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0022 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	97.52	39.20
For Work In Restricted Working Space, Add	17.63	
22 66 53 00-0023 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	120.52	49.42
For Work In Restricted Working Space, Add	22.23	
22 66 53 00-0024 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	174.04	54.10
For Work In Restricted Working Space, Add	24.34	
22 66 53 00-0025 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	245.62	71.06
For Work In Restricted Working Space, Add	31.95	
22 66 53 00-0026 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	447.07	113.66
For Work In Restricted Working Space, Add	51.12	
22 66 53 00-0027 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0028 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee	120.46	49.42
For Work In Restricted Working Space, Add	22.23	
22 66 53 00-0029 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	167.55	54.10
For Work In Restricted Working Space, Add	24.34	
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee	161.79	54.10
For Work In Restricted Working Space, Add	24.34	
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	230.83	71.06
For Work In Restricted Working Space, Add	31.95	
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	236.41	71.06
For Work In Restricted Working Space, Add	31.95	
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	405.90	113.66
For Work In Restricted Working Space, Add	51.12	
22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug (22 66 53 00-0002)		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	116.44	39.20
For Work In Restricted Working Space, Add	17.63	
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	125.10	49.42
For Work In Restricted Working Space, Add	22.23	
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	188.04	54.10
For Work In Restricted Working Space, Add	24.34	
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	252.08	71.06
For Work In Restricted Working Space, Add	31.95	
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	367.24	113.66
For Work In Restricted Working Space, Add	51.12	
22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes (22 66 53 00-0002)		
22 66 53 00-0041 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	108.14	39.20
For Work In Restricted Working Space, Add	17.63	
22 66 53 00-0042 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	130.36	49.42
For Work In Restricted Working Space, Add	22.23	
22 66 53 00-0043 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	179.90	54.10
For Work In Restricted Working Space, Add	24.34	
22 66 53 00-0044 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	250.48	71.06
For Work In Restricted Working Space, Add	31.95	
22 66 53 00-0045 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	535.89	113.66
For Work In Restricted Working Space, Add	51.12	

22 Plumbing**22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0046		Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes (22 66 53 00-0002)		
22 66 53 00-0047	EA	2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	143.36	49.42
		<i>For Work In Restricted Working Space, Add</i>	22.23	
22 66 53 00-0048	EA	3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	173.22	54.10
		<i>For Work In Restricted Working Space, Add</i>	24.34	
22 66 53 00-0049	EA	3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	173.22	54.10
		<i>For Work In Restricted Working Space, Add</i>	24.34	
22 66 53 00-0050	EA	4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	244.71	71.06
		<i>For Work In Restricted Working Space, Add</i>	31.95	
22 66 53 00-0051	EA	4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	244.71	71.06
		<i>For Work In Restricted Working Space, Add</i>	31.95	
22 66 53 00-0052	EA	6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	459.38	113.66
		<i>For Work In Restricted Working Space, Add</i>	51.12	
22 66 53 00-0053	EA	6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	463.86	113.66
		<i>For Work In Restricted Working Space, Add</i>	51.12	
22 66 53 00-0054	EA	6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	407.78	113.66
		<i>For Work In Restricted Working Space, Add</i>	51.12	
22 66 53 00-0055		Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses (22 66 53 00-0002)		
22 66 53 00-0056	EA	1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross.....	134.22	48.99
		<i>For Work In Restricted Working Space, Add</i>	22.04	
22 66 53 00-0057	EA	2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross.....	165.41	61.77
		<i>For Work In Restricted Working Space, Add</i>	27.79	
22 66 53 00-0058	EA	3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross.....	247.06	67.65
		<i>For Work In Restricted Working Space, Add</i>	30.43	
22 66 53 00-0059	EA	4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross.....	351.20	88.78
		<i>For Work In Restricted Working Space, Add</i>	39.94	
22 66 53 00-0060	EA	6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross.....	646.70	142.04
		<i>For Work In Restricted Working Space, Add</i>	63.90	
22 66 53 00-0061		Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0062	EA	1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend	94.05	39.20
		<i>For Work In Restricted Working Space, Add</i>	17.63	
22 66 53 00-0063	EA	2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend	125.66	49.42
		<i>For Work In Restricted Working Space, Add</i>	22.23	
22 66 53 00-0064	EA	3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend	147.12	54.10
		<i>For Work In Restricted Working Space, Add</i>	24.34	
22 66 53 00-0065	EA	4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend	209.12	71.06
		<i>For Work In Restricted Working Space, Add</i>	31.95	
22 66 53 00-0066	EA	2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend	110.31	49.42
		<i>For Work In Restricted Working Space, Add</i>	22.23	
22 66 53 00-0067	EA	3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend	140.95	54.10
		<i>For Work In Restricted Working Space, Add</i>	24.34	
22 66 53 00-0068	EA	3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend	143.43	54.10
		<i>For Work In Restricted Working Space, Add</i>	24.34	
22 66 53 00-0069	EA	4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend	199.94	71.06
		<i>For Work In Restricted Working Space, Add</i>	31.95	
22 66 53 00-0070	EA	4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend	201.51	71.06
		<i>For Work In Restricted Working Space, Add</i>	31.95	
22 66 53 00-0071		Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)		
22 66 53 00-0072	EA	1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap	112.43	45.50
		<i>For Work In Restricted Working Space, Add</i>	20.45	
22 66 53 00-0073	EA	2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap	150.60	59.82
		<i>For Work In Restricted Working Space, Add</i>	26.91	
22 66 53 00-0074	EA	3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap	241.53	81.21
		<i>For Work In Restricted Working Space, Add</i>	36.52	
22 66 53 00-0075	EA	4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap	356.26	103.36
		<i>For Work In Restricted Working Space, Add</i>	46.48	
22 66 53 00-0076		Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 00-0002)		
22 66 53 00-0077	EA	1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter	57.21	18.32
		<i>For Work In Restricted Working Space, Add</i>	8.24	
22 66 53 00-0078	EA	2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter	67.25	24.19
		<i>For Work In Restricted Working Space, Add</i>	10.88	
22 66 53 00-0079	EA	3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter	79.91	27.70
		<i>For Work In Restricted Working Space, Add</i>	12.47	
22 66 53 00-0080	EA	4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter	110.24	36.64
		<i>For Work In Restricted Working Space, Add</i>	16.49	
22 66 53 00-0081	EA	6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter	163.92	54.10
		<i>For Work In Restricted Working Space, Add</i>	24.34	



	Plumbing	22	
	Gas And Vacuum Systems For Laboratory And Healthcare Facilities	22 60	22
	Chemical-Waste Systems For Laboratory And Healthcare Facilities	22 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)		
22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter.....	53.49	18.32
For Work In Restricted Working Space, Add	8.24	
22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter.....	70.07	24.19
For Work In Restricted Working Space, Add	10.88	
22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter.....	85.08	27.70
For Work In Restricted Working Space, Add	12.47	
22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter.....	115.31	36.64
For Work In Restricted Working Space, Add	16.49	
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)		
22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	48.85	18.32
For Work In Restricted Working Space, Add	8.24	
22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	61.73	24.19
For Work In Restricted Working Space, Add	10.88	
22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	72.48	27.70
For Work In Restricted Working Space, Add	12.47	
22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	95.86	36.64
For Work In Restricted Working Space, Add	16.49	
22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	140.58	54.10
For Work In Restricted Working Space, Add	24.34	
22 66 53 00-0093 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
Note: Acid resistant. ASTM A518.		
22 66 53 00-0094 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0093)		
22 66 53 00-0095 LF 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	67.81	7.59
22 66 53 00-0096 LF 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	95.03	9.46
22 66 53 00-0097 LF 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	128.64	10.91
22 66 53 00-0098 LF 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	210.20	15.27
22 66 53 00-0099 LF 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	368.68	20.41
22 66 53 00-0100 LF 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	648.54	25.74
22 66 53 00-0101 LF 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	1,152.74	34.67
22 66 53 00-0102 LF 15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	2,045.85	39.75
22 66 53 00-0103 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00-0093)		
22 66 53 00-0104 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0103)		
22 66 53 00-0105 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	282.62	64.59
22 66 53 00-0106 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	364.92	71.06
22 66 53 00-0107 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	582.44	85.04
22 66 53 00-0108 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	858.12	100.86
22 66 53 00-0109 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	1,948.61	163.99
22 66 53 00-0110 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0103)		
22 66 53 00-0111 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	173.70	64.59
22 66 53 00-0112 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	221.83	71.06
22 66 53 00-0113 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	277.04	85.04
22 66 53 00-0114 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	689.40	100.86
22 66 53 00-0115 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	1,542.20	163.99
22 66 53 00-0116 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	2,327.43	204.31
22 66 53 00-0117 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	3,399.94	245.70
22 66 53 00-0118 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0103)		
22 66 53 00-0119 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	173.70	64.59
22 66 53 00-0120 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	221.83	71.06
22 66 53 00-0121 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	277.04	85.04
22 66 53 00-0122 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	514.28	100.86
22 66 53 00-0123 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	1,315.82	163.99
22 66 53 00-0124 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	1,911.30	204.31
22 66 53 00-0125 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	2,695.50	245.70
22 66 53 00-0126 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0103)		
22 66 53 00-0127 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	173.70	64.59
22 66 53 00-0128 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	221.83	71.06
22 66 53 00-0129 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	276.84	84.95
22 66 53 00-0130 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps (22 66 53 00-0103)		

22 Plumbing**22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0131	EA	2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	229.23	64.59
22 66 53 00-0132	EA	3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	390.55	71.06
22 66 53 00-0133	EA	4"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	439.35	85.04
22 66 53 00-0134 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees (22 66 53 00-0103)					
22 66 53 00-0135	EA	2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	247.42	96.62
22 66 53 00-0136	EA	3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	305.81	107.10
22 66 53 00-0137	EA	4"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	418.15	127.89
22 66 53 00-0138	EA	6"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	675.73	151.58
22 66 53 00-0139	EA	8"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	1,994.35	246.19
22 66 53 00-0140	EA	10"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	2,817.51	307.41
22 66 53 00-0141 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0103)					
22 66 53 00-0142	EA	2" x 1-1/2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	232.86	92.62
22 66 53 00-0143	EA	3" x 1-1/2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	268.71	99.43
22 66 53 00-0144	EA	3" x 2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	297.40	102.93
22 66 53 00-0145	EA	4" x 1-1/2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	339.13	113.66
22 66 53 00-0146	EA	4" x 2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	361.65	117.24
22 66 53 00-0147	EA	4" x 3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	394.51	120.74
22 66 53 00-0148	EA	6" x 2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	485.31	131.16
22 66 53 00-0149	EA	6" x 3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	534.88	134.53
22 66 53 00-0150	EA	6" x 4"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	595.40	140.72
22 66 53 00-0151 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees (22 66 53 00-0103)					
22 66 53 00-0152	EA	2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	277.27	96.62
22 66 53 00-0153	EA	3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	331.02	106.85
22 66 53 00-0154	EA	4"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	445.88	127.89
22 66 53 00-0155 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees (22 66 53 00-0103)					
22 66 53 00-0156	EA	2" x 1-1/2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	262.73	92.62
22 66 53 00-0157	EA	3" x 2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	323.75	103.44
22 66 53 00-0158	EA	4" x 1-1/2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	387.77	117.59
22 66 53 00-0159	EA	4" x 3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	414.27	121.08
22 66 53 00-0160 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0103)					
22 66 53 00-0161	EA	2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	245.46	96.79
22 66 53 00-0162	EA	3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	329.31	107.10
22 66 53 00-0163	EA	4"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	418.00	127.81
22 66 53 00-0164	EA	6"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	679.13	151.01
22 66 53 00-0165	EA	8"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	2,476.62	245.95
22 66 53 00-0166 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0103)					
22 66 53 00-0167	EA	2" x 1-1/2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	249.91	92.62
22 66 53 00-0168	EA	3" x 1-1/2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	268.67	99.43
22 66 53 00-0169	EA	3" x 2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	283.35	103.53
22 66 53 00-0170	EA	4" x 1-1/2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	315.63	113.66
22 66 53 00-0171	EA	4" x 2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	327.68	117.41
22 66 53 00-0172	EA	4" x 3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	386.51	121.08
22 66 53 00-0173	EA	6" x 2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	508.70	131.32
22 66 53 00-0174	EA	6" x 3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	596.81	134.53
22 66 53 00-0175	EA	6" x 4"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	623.17	140.72
22 66 53 00-0176	EA	8" x 3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,474.24	198.41
22 66 53 00-0177	EA	8" x 4"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,588.70	204.97
22 66 53 00-0178	EA	8" x 6"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,931.11	215.46
22 66 53 00-0179 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0103)					
22 66 53 00-0180	EA	2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	285.76	96.62
22 66 53 00-0181	EA	3"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	337.43	106.85
22 66 53 00-0182	EA	4"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	488.59	127.89
22 66 53 00-0183	EA	6"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	734.94	151.17
22 66 53 00-0184 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0103)					
22 66 53 00-0185	EA	2" x 1-1/2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	241.37	92.62
22 66 53 00-0186	EA	3" x 1-1/2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	277.21	99.43
22 66 53 00-0187	EA	3" x 2"	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	304.52	103.44



	Plumbing	22	
	Gas And Vacuum Systems For Laboratory And Healthcare Facilities	22 60	22
	Chemical-Waste Systems For Laboratory And Healthcare Facilities	22 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0188 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	330.58	113.66
22 66 53 00-0189 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	377.09	117.59
22 66 53 00-0190 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	422.77	120.99
22 66 53 00-0191 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	536.42	131.32
22 66 53 00-0192 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	658.81	134.61
22 66 53 00-0193 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	719.61	140.96
22 66 53 00-0194 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers (22 66 53 00-0193)		
22 66 53 00-0195 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	150.99	60.84
22 66 53 00-0196 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	164.62	64.25
22 66 53 00-0197 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	182.55	67.65
22 66 53 00-0198 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	281.18	74.99
22 66 53 00-0199 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	294.85	78.48
22 66 53 00-0200 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	318.40	84.15
22 66 53 00-0201 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	407.05	90.58
22 66 53 00-0202 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	588.01	123.02
22 66 53 00-0203 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	627.14	133.42
22 66 53 00-0204 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers (22 66 53 00-0103)		
22 66 53 00-0205 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	396.67	142.04
22 66 53 00-0206 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	507.73	142.04
22 66 53 00-0207 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	517.69	142.04
22 66 53 00-0208 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	590.96	187.66
22 66 53 00-0209 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0103)		
22 66 53 00-0210 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	408.62	64.59
22 66 53 00-0211 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	490.92	71.06
22 66 53 00-0212 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	597.39	85.04
22 66 53 00-0213 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	1,708.10	100.86
22 66 53 00-0214 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs (22 66 53 00-0103)		
22 66 53 00-0215 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	214.28	64.59
22 66 53 00-0216 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	266.68	71.06
22 66 53 00-0217 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	362.47	85.04
22 66 53 00-0218 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	462.67	100.86
22 66 53 00-0219 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	881.61	140.72
22 66 53 00-0220 Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings (22 66 53 00-0093)		
Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.		
22 66 53 00-0221 LB Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	4.28	
22 66 53 00-0222 LB Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	39.15	
22 66 53 00-0223 Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
Note: ASTM A518.		
22 66 53 00-0224 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0223)		
22 66 53 00-0225 LF 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	53.69	5.71
22 66 53 00-0226 LF 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	61.05	6.31
22 66 53 00-0227 LF 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	83.95	7.92
22 66 53 00-0228 LF 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	105.58	9.20
22 66 53 00-0229 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00-0223)		
22 66 53 00-0230 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0229)		
22 66 53 00-0231 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	206.68	45.25
22 66 53 00-0232 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	224.05	51.12
22 66 53 00-0233 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	302.37	56.41
22 66 53 00-0234 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	364.93	68.16
22 66 53 00-0235 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0229)		
22 66 53 00-0236 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	123.39	45.25
22 66 53 00-0237 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	146.37	50.61
22 66 53 00-0238 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	185.19	56.58
22 66 53 00-0239 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	240.30	67.65

22 Plumbing**22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0240 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	142.15	47.80
22 66 53 00-0241 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0229)		
22 66 53 00-0242 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	123.39	45.25
22 66 53 00-0243 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	146.37	50.61
22 66 53 00-0244 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	185.19	56.58
22 66 53 00-0245 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	240.30	67.65
22 66 53 00-0246 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends (22 66 53 00-0229)		
22 66 53 00-0247 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	142.61	45.25
22 66 53 00-0248 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	176.26	50.61
22 66 53 00-0249 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	264.21	56.58
22 66 53 00-0250 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	297.96	67.65
22 66 53 00-0251 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0229)		
22 66 53 00-0252 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	138.34	45.25
22 66 53 00-0253 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	163.45	50.61
22 66 53 00-0254 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	244.99	56.58
22 66 53 00-0255 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	278.74	67.65
22 66 53 00-0256 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends (22 66 53 00-0229)		
22 66 53 00-0257 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	208.85	68.08
22 66 53 00-0258 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees (22 66 53 00-0229)		
22 66 53 00-0259 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	174.68	68.08
22 66 53 00-0260 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	213.21	76.69
22 66 53 00-0261 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	275.49	85.46
22 66 53 00-0262 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	407.51	102.33
22 66 53 00-0263 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees (22 66 53 00-0229)		
22 66 53 00-0264 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	200.34	73.79
22 66 53 00-0265 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	241.00	79.58
22 66 53 00-0266 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....	255.89	82.39
22 66 53 00-0267 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	275.08	90.92
22 66 53 00-0268 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	300.34	93.47
22 66 53 00-0269 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	323.81	96.28
22 66 53 00-0270 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0229)		
22 66 53 00-0271 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	175.02	68.33
22 66 53 00-0272 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	204.67	76.69
22 66 53 00-0273 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	266.95	85.46
22 66 53 00-0274 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	407.51	102.33
22 66 53 00-0275 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0229)		
22 66 53 00-0276 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	194.51	74.21
22 66 53 00-0277 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	234.57	79.49
22 66 53 00-0278 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	245.59	82.65
22 66 53 00-0279 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	275.49	91.17
22 66 53 00-0280 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	301.10	93.99
22 66 53 00-0281 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	317.76	96.54
22 66 53 00-0282 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes (22 66 53 00-0229)		
22 66 53 00-0283 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	258.17	91.00
22 66 53 00-0284 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	324.34	102.42
22 66 53 00-0285 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	409.06	113.32
22 66 53 00-0286 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	528.90	136.24
22 66 53 00-0287 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	283.35	96.37
22 66 53 00-0288 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	315.34	102.08
22 66 53 00-0289 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	370.82	107.70
22 66 53 00-0290 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	409.44	119.29
22 66 53 00-0291 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	486.85	125.33



		Plumbing	22
Gas And Vacuum Systems For Laboratory And Healthcare Facilities		22 60	22
Chemical-Waste Systems For Laboratory And Healthcare Facilities		22 66	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
22 66 53 00-0292	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses (22 66 53 00-0229)			
22 66 53 00-0293	EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	283.74		91.00
22 66 53 00-0294	EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	332.68		102.25
22 66 53 00-0295	EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	465.55		113.92
22 66 53 00-0296	EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	642.30		136.42
22 66 53 00-0297	EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	304.65		96.37
22 66 53 00-0298	EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	390.05		102.08
22 66 53 00-0299	EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	411.34		107.70
22 66 53 00-0300	EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	441.42		119.21
22 66 53 00-0301	EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	552.39		124.82
22 66 53 00-0302	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0229)			
22 66 53 00-0303	EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	191.44		67.82
22 66 53 00-0304	EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	221.75		76.69
22 66 53 00-0305	EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	266.95		85.46
22 66 53 00-0306	EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	431.00		102.33
22 66 53 00-0307	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0229)			
22 66 53 00-0308	EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	211.08		73.87
22 66 53 00-0309	EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	234.91		79.76
22 66 53 00-0310	EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	254.13		82.65
22 66 53 00-0311	EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	337.42		91.17
22 66 53 00-0312	EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	345.95		93.99
22 66 53 00-0313	EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	383.96		96.54
22 66 53 00-0314	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0229)			
22 66 53 00-0315	EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend	298.50		90.83
22 66 53 00-0316	EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend	371.05		102.16
22 66 53 00-0317	EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend	522.60		113.58
22 66 53 00-0318	EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend	627.78		136.67
22 66 53 00-0319	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends (22 66 53 00-0229)			
22 66 53 00-0320	EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	323.87		96.37
22 66 53 00-0321	EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	383.62		101.99
22 66 53 00-0322	EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	400.66		107.70
22 66 53 00-0323	EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	445.69		119.21
22 66 53 00-0324	EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	552.39		124.82
22 66 53 00-0325	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers (22 66 53 00-0229)			
22 66 53 00-0326	EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	142.87		48.32
22 66 53 00-0327	EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	159.94		51.12
22 66 53 00-0328	EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	187.67		59.65
22 66 53 00-0329	EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	217.36		56.66
22 66 53 00-0330	EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	230.15		59.48
22 66 53 00-0331	EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	242.94		62.29
22 66 53 00-0332	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees (22 66 53 00-0229)			
22 66 53 00-0333	EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	130.12		39.79
22 66 53 00-0334	EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	150.75		44.99
22 66 53 00-0335	EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	176.71		50.95
22 66 53 00-0336	EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	310.87		62.03
22 66 53 00-0337	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs (22 66 53 00-0229)			
22 66 53 00-0338	EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	59.56		22.66
22 66 53 00-0339	EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	69.97		25.31

22 Plumbing**22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0340 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	76.58	28.29
22 66 53 00-0341 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	97.72	33.82
22 66 53 00-0342 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0229)		
22 66 53 00-0343 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	227.63	44.99
22 66 53 00-0344 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	236.06	50.61
22 66 53 00-0345 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	289.84	56.58
22 66 53 00-0346 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	368.43	67.65
22 66 53 00-0347 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	311.69	48.40
22 66 53 00-0348 EA 2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	424.86	54.02
22 66 53 00-0349 EA 3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	512.26	59.65
22 66 53 00-0350 EA 4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	636.14	71.06
22 66 53 00-0351 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps (22 66 53 00-0229)		
22 66 53 00-0352 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	412.29	51.38
22 66 53 00-0353 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	642.61	56.83
22 66 53 00-0354 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	429.07	51.12
22 66 53 00-0355 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	642.61	56.83
22 66 53 00-0356 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps (22 66 53 00-0229)		
22 66 53 00-0357 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap.....	384.22	51.12
22 66 53 00-0358 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap.....	450.40	56.83
22 66 53 00-0359 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap.....	441.88	51.12
22 66 53 00-0360 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	952.28	56.83
22 66 53 00-0361 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	574.27	56.83
22 66 53 00-0362 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends (22 66 53 00-0229)		
22 66 53 00-0363 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	168.53	45.50
22 66 53 00-0364 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	217.64	51.12
22 66 53 00-0365 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters (22 66 53 00-0229)		
22 66 53 00-0366 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....	89.56	34.09
22 66 53 00-0367 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....	155.75	36.97
22 66 53 00-0368 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....	119.44	42.60
22 66 53 00-0369 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter (22 66 53 00-0229)		
22 66 53 00-0370 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	162.43	48.48
22 66 53 00-0371 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	177.02	51.12
22 66 53 00-0372 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	196.22	53.93
22 66 53 00-0373 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	210.93	59.48
22 66 53 00-0374 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	196.26	54.02
22 66 53 00-0375 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	206.89	56.83
22 66 53 00-0376 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	223.72	62.29
22 66 53 00-0377 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	249.64	59.65
22 66 53 00-0378 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter.....	307.26	71.06
22 66 53 00-0379 Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings (22 66 53 00-0229)		
22 66 53 00-0380 EA 1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	51.26	
22 66 53 00-0381 EA 2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	59.80	
22 66 53 00-0382 EA 3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	64.07	
22 66 53 00-0383 EA 4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	70.48	
22 66 53 00-0384 Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings (22 66 53 00-0229)		
22 66 53 00-0385 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet.....	386.47	22.75
22 66 53 00-0386 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper.....	147.31	11.33
22 66 53 00-0387 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow.....	271.18	11.33
22 66 53 00-0388 Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates (22 66 53 00-0229)		
22 66 53 00-0389 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer.....	1,396.27	113.66
22 66 53 00-0390 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer.....	1,716.58	119.38



Plumbing		22	22
Gas And Vacuum Systems For Laboratory And Healthcare Facilities		22 60	
Chemical-Waste Systems For Laboratory And Healthcare Facilities		22 66	

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
22 66 53 00-0391	EA	Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain.....	1,131.84			11.33

END OF SECTION 22

22	22	Plumbing
	22 60	Gas And Vacuum Systems For Laboratory And Healthcare Facilities
	22 66	Chemical-Waste Systems For Laboratory And Healthcare Facilities



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT	COST	UNIT COST

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Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation And Maintenance Of Medium-Voltage Electrical Distribution		26 01 10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation And Maintenance Of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	EA	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.	
26 01 10 91-0002	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	314.53
		Note: 2mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	64.55
		For >20 To 50, Add	51.64
		For >50 To 100, Add	25.82
26 01 10 91-0003	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	407.07
		Note: 2mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	87.69
		For >20 To 50, Add	70.15
		For >50 To 100, Add	35.07
26 01 10 91-0004	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	610.67
		Note: 4mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	138.59
		For >20 To 50, Add	110.87
		For >50 To 100, Add	55.43
26 01 10 91-0005	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO)	311.89
		Note: 2mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	63.89
		For >20 To 50, Add	51.11
		For >50 To 100, Add	25.56
26 01 10 91-0006	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	313.52
		Note: 2mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	64.30
		For >20 To 50, Add	51.44
		For >50 To 100, Add	25.72
26 01 10 91-0007	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	399.54
		Note: 2mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	85.80
		For >20 To 50, Add	68.64
		For >50 To 100, Add	34.32
26 01 10 91-0008	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	593.93
		Note: 4mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	134.40
		For >20 To 50, Add	107.52
		For >50 To 100, Add	53.76
26 01 10 91-0009	EA	2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFRR)	247.90
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	47.89
		For >20 To 50, Add	38.31
		For >50 To 100, Add	19.16
26 01 10 91-0010	EA	3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFRR)	347.84
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	72.88
		For >20 To 50, Add	58.30
		For >50 To 100, Add	29.15
26 01 10 91-0011	EA	4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFRR)	493.60
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	109.32
		For >20 To 50, Add	87.45
		For >50 To 100, Add	43.73
26 01 10 91-0012	EA	2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	450.35
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	98.51
		For >20 To 50, Add	78.80
		For >50 To 100, Add	39.40
26 01 10 91-0013	EA	3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	617.57
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	140.31
		For >20 To 50, Add	112.25
		For >50 To 100, Add	56.12

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation And Maintenance Of Medium-Voltage Electrical Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014 EA 4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,128.31	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	268.00	
For >20 To 50, Add	214.40	
For >50 To 100, Add	107.20	
26 01 10 91-0015 EA 3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	516.82	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	115.12	
For >20 To 50, Add	92.10	
For >50 To 100, Add	46.05	
26 01 10 91-0016 EA 4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	758.94	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	175.65	
For >20 To 50, Add	140.52	
For >50 To 100, Add	70.26	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001	Lock Out/Tag Out Devices (26 01 20 91)	
	Note: Includes the installation and removal of device lock, pad lock and identifying markers. Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.	
26 01 20 91-0002 EA	Lock Out/Tag Out Local Disconnect	22.91
26 01 20 91-0003 EA	Lock Out/Tag Out Breaker Or Motor Starter	22.91
26 01 20 91-0004 EA	Lock Out/Tag Out Tags.....	4.33
26 01 20 91-0005	Existing Circuit Tracing (26 01 20 91)	
26 01 20 91-0006 EA	Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	19.06
26 01 20 91-0007 EA	Lighting, Existing Circuit Tracing Per Circuit.....	19.06

26 01 30 Operation And Maintenance Of Facility Electrical Power Generating And Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating And Storing Equipment Restoration (26 01 30)

26 01 30 91-0001	Emergency Generator Permits (26 01 30 91)	
26 01 30 91-0002	Air Pollution Control Board (26 01 30 91-0001)	
26 01 30 91-0003 EA	APCD Permit To Construct And Operate Emergency Generator.....	2,688.03

26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001	Replace Lamps In Existing Fixtures (26 01 50 51)	
	Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0347 for disposal of hazardous lamps.	
26 01 50 51-0002	Halogen Lamps (26 01 50 51-0001)	
26 01 50 51-0003 EA	300 Watt, T3, Tungsten Halogen Lamp	39.62
26 01 50 51-0004 EA	500 Watt, T3, Tungsten Halogen Lamp	51.04
26 01 50 51-0005 EA	1,000 Watt, T3, Tungsten Halogen Lamp	76.13
26 01 50 51-0006 EA	90 Watt, PAR38, Halogen Lamp	18.63
26 01 50 51-0007 EA	100 Watt, PAR38, Halogen Lamp	18.63
26 01 50 51-0008 EA	60 Watt, PAR38, Halogen IR Reflective Lamp	21.38
26 01 50 51-0009 EA	67 Watt, PAR38, Halogen IR Reflective Lamp	23.09
26 01 50 51-0010 EA	70 Watt, PAR38, Halogen IR Reflective Lamp	22.64
26 01 50 51-0011 EA	90 Watt, PAR38, Halogen IR Reflective Lamp	23.95
26 01 50 51-0012 EA	100 Watt, PAR38, Halogen IR Reflective Lamp.....	24.23
26 01 50 51-0013 EA	12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Sora MR16-65-B01-12-830-10)	23.87
26 01 50 51-0014 EA	12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Sora MR16-75-B01-12-830-20)	23.87
26 01 50 51-0015 EA	12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Sora MR16-75-B01-12-830-25)	26.73
26 01 50 51-0016 EA	12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Sora MR16-75-B01-12-830-36)	26.73
26 01 50 51-0017	Incandescent Lamps (26 01 50 51-0001)	
26 01 50 51-0018 EA	100 Watt, Frosted, Interior Incandescent Lamp	5.18
	For Multiple Lamps In Fixture, Deduct	-1.51
26 01 50 51-0019 EA	150 Watt, Frosted, Interior Incandescent Lamp	6.50
	For Multiple Lamps In Fixture, Deduct	-1.51
26 01 50 51-0020 EA	200 Watt, Frosted, Interior Incandescent Lamp	7.95
	For Multiple Lamps In Fixture, Deduct	-1.51



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0021	EA		300 Watt, PS25, Interior Incandescent Lamp	9.77	
			For Multiple Lamps In Fixture, Deduct	-1.51	
26 01 50 51-0022	EA		60 Watt, G25, Clear, Interior Incandescent Lamp	7.31	
			For Multiple Lamps In Fixture, Deduct	-1.51	
26 01 50 51-0023	EA		75 Watt, R20, Interior Incandescent Lamp	11.59	
			For Multiple Lamps In Fixture, Deduct	-1.82	
26 01 50 51-0024	EA		75 Watt, PAR38, Exterior Incandescent Lamp	14.14	
			For Multiple Lamps In Fixture, Deduct	-1.82	
26 01 50 51-0025	EA		100 Watt, PAR38, Exterior Incandescent Lamp	13.13	
			For Multiple Lamps In Fixture, Deduct	-1.82	
26 01 50 51-0026	EA		150 Watt, PAR38, Exterior Incandescent Lamp	22.79	
			For Multiple Lamps In Fixture, Deduct	-1.82	
26 01 50 51-0027	EA		250 Watt, PAR38, Exterior Incandescent Lamp	47.13	
			For Multiple Lamps In Fixture, Deduct	-2.12	
26 01 50 51-0028	EA		300 Watt, PAR56, Exterior Incandescent Lamp	54.23	
			For Multiple Lamps In Fixture, Deduct	-2.12	
26 01 50 51-0029			Exit Light Lamps (26 01 50 51-0001)		
26 01 50 51-0030	EA		Convert Exit Light Lamps To Red LED Lamps	86.99	
			For Green LED Lamps, Add	25.00	
26 01 50 51-0031	EA		Fluorescent Lamp For Exit Light	24.72	
			For Multiple Lamps In Fixture, Deduct	-6.05	
26 01 50 51-0032	EA		Lamp Replacement For Emergency Lights On Exit Sign	32.31	
			For Multiple Lamps In Fixture, Deduct	-3.02	
26 01 50 51-0033			Fluorescent Lamps (26 01 50 51-0001)		
26 01 50 51-0034	EA		18", 15 Watt, T8 Fluorescent Lamp	9.01	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0035	EA		2', 17 Watt, T8 Fluorescent Lamp	10.47	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0036	EA		3', 25 Watt, T8 Fluorescent Lamp	11.98	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0037	EA		4', 32 Watt, T8 Fluorescent Lamp	8.25	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0038	EA		4', 30 Watt, T8 Fluorescent Lamp	14.49	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0039	EA		4', 28 Watt, T8 Fluorescent Lamp	12.96	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0040	EA		4', 25 Watt, T8 Fluorescent Lamp	12.90	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0041	EA		4', 44 Watt, T8HO Fluorescent Lamp	19.48	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0042	EA		8', 59 Watt, T8 Fluorescent Lamp	15.35	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0043	EA		18", 15 Watt, T12 Fluorescent Lamp	12.67	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0044	EA		2', 20 Watt, T12 Fluorescent Lamp	10.05	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0045	EA		3', 30 Watt, T12 Fluorescent Lamp	11.29	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0046	EA		4', 34 Watt, T12 Fluorescent Lamp	11.34	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0047	EA		4', 40 Watt, T12 Fluorescent Lamp	11.15	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0048	EA		8', 60 Watt, T12 Fluorescent Lamp	15.68	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0049	EA		8', 75 Watt, T12 Fluorescent Lamp	13.57	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0050	EA		8', 95 Watt, Instant Start T12 Fluorescent Lamp	8.25	
26 01 50 51-0051	EA		6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp	12.81	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0052	EA		8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp	10.86	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0053	EA		12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp	10.56	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0054	EA		16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp	11.49	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0055	EA		6", 4 Watt, T5 Fluorescent Lamp	9.80	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0056	EA		9", 6 Watt, T5 Fluorescent Lamp	9.67	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0057	EA		12", 8 Watt, T5 Fluorescent Lamp	9.92	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0058	EA		21", 13 Watt, T5 Fluorescent Lamp	10.29	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0059	EA		24", 14 Watt, T5 Fluorescent Lamp	11.58	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0060	EA		34", 21 Watt, T5 Fluorescent Lamp	12.66	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0061	EA		46", 28 Watt, T5 Fluorescent Lamp	12.33	
			For Multiple Lamps In Fixture, Deduct	-2.72	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0062 EA 46", 54 Watt T5HO Fluorescent Lamp 13.30 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.72		
26 01 50 51-0063 EA 46", 54 Watt T5 Fluorescent Lamp 13.31		
26 01 50 51-0064 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp 18.25 <i>For Multiple Lamps In Fixture, Deduct</i> .....-3.02		
26 01 50 51-0065 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp 17.68 <i>For Multiple Lamps In Fixture, Deduct</i> .....-3.02		
26 01 50 51-0066 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp 15.48 <i>For Multiple Lamps In Fixture, Deduct</i> .....-1.51		
26 01 50 51-0067 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp 7.45 <i>For Multiple Lamps In Fixture, Deduct</i> .....-1.51		
26 01 50 51-0068 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp 8.12 <i>For Multiple Lamps In Fixture, Deduct</i> .....-1.51		
26 01 50 51-0069 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux 20.51		
26 01 50 51-0070 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux 20.51		
26 01 50 51-0071 EA 32 Watt 2D (DoubleD) Fluorescent Lamp 36.36		
26 01 50 51-0072 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp 13.92		
26 01 50 51-0073 EA <9 Watt Spiral Compact Fluorescent Lamps, Screw-In 4.59		
26 01 50 51-0074 EA 9-27 Watt Spiral Compact Fluorescent Lamps, Screw-In 4.59		
26 01 50 51-0075 EA 29-32 Watt Spiral Compact Fluorescent Lamps, Screw-In 4.59		
26 01 50 51-0076 EA 33-42 Watt Spiral Compact Fluorescent Lamps, Screw-In 4.59		
26 01 50 51-0077 EA 43-65 Watt Spiral Compact Fluorescent Lamps, Screw-In 4.59		
26 01 50 51-0078 EA 85 Watt Spiral Compact Fluorescent Lamps, Screw-In 4.59		
26 01 50 51-0079 EA 105 Watt Spiral Compact Fluorescent Lamps, Screw-In 4.59		
26 01 50 51-0080 EA 200 Watt Spiral Compact Fluorescent Lamps, Screw-In 4.59		
26 01 50 51-0081 EA 11 Watt Compact Fluorescent Reflector Lamps, Screw-In 5.50		
26 01 50 51-0082 EA 15 Watt Compact Fluorescent Reflector Lamps, Screw-In 5.50		
26 01 50 51-0083 EA 20-28 Watt Compact Fluorescent Reflector Lamps, Screw-In 5.50		
26 01 50 51-0084 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0085 EA 50 Watt, Pulse Start Metal Halide Lamp 31.51		
26 01 50 51-0086 EA 70 Watt, Pulse Start Metal Halide Lamp 30.32		
26 01 50 51-0087 EA 100 Watt, Pulse Start Metal Halide Lamp 34.09		
26 01 50 51-0088 EA 150 Watt, Pulse Start Metal Halide Lamp 33.23		
26 01 50 51-0089 EA 175 Watt, Pulse Start Metal Halide Lamp 32.99		
26 01 50 51-0090 EA 250 Watt, Pulse Start Metal Halide Lamp 33.16		
26 01 50 51-0091 EA 400 Watt, Pulse Start Metal Halide Lamp 39.15		
26 01 50 51-0092 EA 1,000 Watt, Pulse Start Metal Halide Lamp 44.91		
26 01 50 51-0093 EA 1,500 Watt, Pulse Start Metal Halide Lamp 44.67		
26 01 50 51-0094 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0095 EA 35 Watt, High Pressure Sodium Lamp 26.66 <i>For Enclosed And Gasket Light Fixtures, Add</i> 2.33		
26 01 50 51-0096 EA 50 Watt, High Pressure Sodium Lamp 26.66 <i>For Enclosed And Gasket Light Fixtures, Add</i> 2.33		
26 01 50 51-0097 EA 70 Watt, High Pressure Sodium Lamp 27.17 <i>For Enclosed And Gasket Light Fixtures, Add</i> 2.33		
26 01 50 51-0098 EA 100 Watt, High Pressure Sodium Lamp 28.15 <i>For Enclosed And Gasket Light Fixtures, Add</i> 2.33		
26 01 50 51-0099 EA 150 Watt, High Pressure Sodium Lamp 27.17 <i>For Enclosed And Gasket Light Fixtures, Add</i> 2.33		
26 01 50 51-0100 EA 250 Watt, High Pressure Sodium Lamp 27.17 <i>For Enclosed And Gasket Light Fixtures, Add</i> 2.33		
26 01 50 51-0101 EA 400 Watt, High Pressure Sodium Lamp 25.72 <i>For Enclosed And Gasket Light Fixtures, Add</i> 2.33		
26 01 50 51-0102 EA 1,000 Watt, High Pressure Sodium Lamp 55.34		
26 01 50 51-0103 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0104 EA 35 Watt, Low Pressure Sodium Lamp 61.95		
26 01 50 51-0105 EA 55 Watt, Low Pressure Sodium Lamp 68.69		
26 01 50 51-0106 EA 70 Watt, Low Pressure Sodium Lamp 70.21		
26 01 50 51-0107 EA 90 Watt, Low Pressure Sodium Lamp 71.73		
26 01 50 51-0108 EA 135 Watt, Low Pressure Sodium Lamp 77.80		
26 01 50 51-0109 EA 180 Watt, Low Pressure Sodium Lamp 105.13		
26 01 50 51-0110 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0111 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0110)		
26 01 50 51-0112 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star) 10.29		
26 01 50 51-0113 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0110)		
26 01 50 51-0114 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) 13.14		
26 01 50 51-0115 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) 13.14		
26 01 50 51-0116 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) 20.82		
26 01 50 51-0117 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) 15.08		
26 01 50 51-0118 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) 25.61		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0119 LED Lamps, Medium Base, BR30 Or BR40 (26 01 50 51-0110)		
26 01 50 51-0120 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	18.01	
26 01 50 51-0121 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	16.39	
26 01 50 51-0122 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	20.70	
26 01 50 51-0123 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	17.83	
26 01 50 51-0124 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	22.62	
26 01 50 51-0125 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	17.83	
26 01 50 51-0126 LED Lamps, Medium Base, PAR (26 01 50 51-0110)		
26 01 50 51-0127 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star).....	19.55	
26 01 50 51-0128 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star).....	25.51	
26 01 50 51-0129 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	25.51	
26 01 50 51-0130 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	24.55	
26 01 50 51-0131 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	23.59	
26 01 50 51-0132 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	23.59	
26 01 50 51-0133 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	42.96	
26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	25.51	
26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	24.55	
26 01 50 51-0136 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star).....	25.51	
26 01 50 51-0137 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	25.51	
26 01 50 51-0138 LED Lamps, GU Base, MR16 (26 01 50 51-0110)		
26 01 50 51-0139 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	14.48	
26 01 50 51-0140 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	18.01	
26 01 50 51-0141 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	19.55	
26 01 50 51-0142 LED Lamps, PL Series (26 01 50 51-0110)		
26 01 50 51-0143 EA 3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23).....	18.00	
26 01 50 51-0144 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR).....	23.21	
26 01 50 51-0145 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR).....	18.93	
26 01 50 51-0146 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR).....	21.60	
26 01 50 51-0147 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR).....	21.60	
26 01 50 51-0148 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR).....	26.42	
26 01 50 51-0149 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR).....	21.60	
26 01 50 51-0150 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR).....	21.60	
26 01 50 51-0151 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR).....	21.60	
26 01 50 51-0152 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR).....	21.60	
26 01 50 51-0153 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR).....	24.81	
26 01 50 51-0154 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR).....	24.81	
26 01 50 51-0155 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR).....	24.81	
26 01 50 51-0156 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR).....	24.81	
26 01 50 51-0157 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR).....	23.21	
26 01 50 51-0158 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR).....	23.21	
26 01 50 51-0159 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR).....	23.21	
26 01 50 51-0160 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR).....	24.28	
26 01 50 51-0161 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR).....	24.28	
26 01 50 51-0162 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP).....	24.51	
26 01 50 51-0163 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP).....	24.51	
26 01 50 51-0164 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP).....	24.51	
26 01 50 51-0165 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP).....	24.51	
26 01 50 51-0166 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP).....	25.35	
26 01 50 51-0167 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP).....	25.35	
26 01 50 51-0168 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26).....	25.35	
26 01 50 51-0169 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26).....	25.35	
26 01 50 51-0170 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26).....	25.35	
26 01 50 51-0171 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24).....	25.35	
26 01 50 51-0172 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24).....	25.35	
26 01 50 51-0173 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24).....	25.35	
26 01 50 51-0174 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP).....	33.71	
26 01 50 51-0175 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP).....	33.71	
26 01 50 51-0176 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP).....	33.71	
26 01 50 51-0177 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP).....	31.78	
26 01 50 51-0178 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP).....	31.78	
26 01 50 51-0179 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP).....	31.78	
26 01 50 51-0180 HID LED Lamps, Medium Base E26 (26 01 50 51-0110)		
26 01 50 51-0181 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26).....	68.69	
26 01 50 51-0182 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26).....	68.69	
26 01 50 51-0183 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26).....	88.48	
26 01 50 51-0184 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26).....	88.48	
26 01 50 51-0185 EA 10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026).....	55.32	
26 01 50 51-0186 EA 10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026).....	55.32	
26 01 50 51-0187 EA 10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026).....	55.32	
26 01 50 51-0188 EA 10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026).....	55.32	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT
 UNIT COST
 DEMOLITION
 UNIT COST

26 01 50 51-0189	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	57.46	
26 01 50 51-0190	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	57.46	
26 01 50 51-0191	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	57.46	
26 01 50 51-0192	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	57.46	
26 01 50 51-0193	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	66.02	
26 01 50 51-0194	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	66.02	
26 01 50 51-0195	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	66.02	
26 01 50 51-0196	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	66.02	
26 01 50 51-0197	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	76.72	
26 01 50 51-0198	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	76.72	
26 01 50 51-0199	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	76.72	
26 01 50 51-0200	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	76.72	
26 01 50 51-0201	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	100.26	
26 01 50 51-0202	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	100.26	
26 01 50 51-0203	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	100.26	
26 01 50 51-0204	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	100.26	
26 01 50 51-0205	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	120.59	
26 01 50 51-0206	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	120.59	
26 01 50 51-0207	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	120.59	
26 01 50 51-0208	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	120.59	
26 01 50 51-0209	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	134.50	
26 01 50 51-0210	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	134.50	
26 01 50 51-0211	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	134.50	
26 01 50 51-0212	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	134.50	
26 01 50 51-0213	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	184.79	
26 01 50 51-0214	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	184.79	
26 01 50 51-0215	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	184.79	
26 01 50 51-0216	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	184.79	
26 01 50 51-0217	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	191.21	
26 01 50 51-0218	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	191.21	
26 01 50 51-0219	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	191.21	
26 01 50 51-0220	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	191.21	
26 01 50 51-0221	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	228.66	
26 01 50 51-0222	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	228.66	
26 01 50 51-0223	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	228.66	
26 01 50 51-0224	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	228.66	
26 01 50 51-0225	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	273.60	
26 01 50 51-0226	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	273.60	
26 01 50 51-0227	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	273.60	
26 01 50 51-0228	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	273.60	
26 01 50 51-0229	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	86.31	
26 01 50 51-0230	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	93.80	
26 01 50 51-0231	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	93.80	
26 01 50 51-0232	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	86.31	
26 01 50 51-0233	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	109.85	
26 01 50 51-0234	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	100.22	
26 01 50 51-0235	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	121.62	
26 01 50 51-0236	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	120.35	
26 01 50 51-0237	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	123.22	
26 01 50 51-0238	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	123.22	
26 01 50 51-0239	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	72.43	
26 01 50 51-0240	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	72.43	
26 01 50 51-0241	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	82.33	
26 01 50 51-0242	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	82.33	
26 01 50 51-0243	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	88.91	
26 01 50 51-0244	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	88.91	
26 01 50 51-0245	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	98.79	
26 01 50 51-0246	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	98.79	
26 01 50 51-0247	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	99.31	
26 01 50 51-0248	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	108.08	
26 01 50 51-0249	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	135.79	
26 01 50 51-0250	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	150.13	
26 01 50 51-0251	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	55.65	
26 01 50 51-0252	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	63.35	
26 01 50 51-0253	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	67.21	
26 01 50 51-0254	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	74.38	
26 01 50 51-0255	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148015-UNV)	90.55	
26 01 50 51-0256	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148020-UNV)	107.02	
26 01 50 51-0257	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148025-UNV)	148.17	
26 01 50 51-0258	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148030-UNV)	156.40	
26 01 50 51-0259	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148035-UNV)	169.57	
26 01 50 51-0260	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148040-UNV)	177.80	
26 01 50 51-0261	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148060-UNV)	258.47	

26 01 50 51-0262 HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0110)

26 01 50 51-0263	EA	120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/27TV/EX39)	245.06	
26 01 50 51-0264	EA	120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/27TV/EX39)	245.06	
26 01 50 51-0265	EA	120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/27TV/EX39)	245.06	
26 01 50 51-0266	EA	27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/27TV/EX39)	68.69	
26 01 50 51-0267	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/27TV/EX39/R)	68.69	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0268	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39).....	68.69	
26 01 50 51-0269	EA		45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	88.48	
26 01 50 51-0270	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	88.48	
26 01 50 51-0271	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	88.48	
26 01 50 51-0272	EA		80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	168.73	
26 01 50 51-0273	EA		80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	184.79	
26 01 50 51-0274	EA		80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	184.79	
26 01 50 51-0275	EA		80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	184.79	
26 01 50 51-0276	EA		80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	184.79	
26 01 50 51-0277	EA		100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	191.21	
26 01 50 51-0278	EA		100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	191.21	
26 01 50 51-0279	EA		100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	191.21	
26 01 50 51-0280	EA		100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	191.21	
26 01 50 51-0281	EA		120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	228.66	
26 01 50 51-0282	EA		120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	228.66	
26 01 50 51-0283	EA		120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	228.66	
26 01 50 51-0284	EA		120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	228.66	
26 01 50 51-0285	EA		150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	273.60	
26 01 50 51-0286	EA		150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	273.60	
26 01 50 51-0287	EA		150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	273.60	
26 01 50 51-0288	EA		150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	273.60	
26 01 50 51-0289	EA		27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	93.80	
26 01 50 51-0290	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	93.80	
26 01 50 51-0291	EA		36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	109.85	
26 01 50 51-0292	EA		36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	108.37	
26 01 50 51-0293	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	121.62	
26 01 50 51-0294	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	120.35	
26 01 50 51-0295	EA		54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	123.22	
26 01 50 51-0296	EA		54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	119.50	
26 01 50 51-0297	EA		100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	265.00	
26 01 50 51-0298	EA		20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7).....	93.76	
26 01 50 51-0299	EA		20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7).....	93.76	
26 01 50 51-0300	EA		30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7).....	107.08	
26 01 50 51-0301	EA		30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7).....	107.08	
26 01 50 51-0302	EA		40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7).....	115.08	
26 01 50 51-0303	EA		40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7).....	115.08	
26 01 50 51-0304	EA		27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	72.30	
26 01 50 51-0305	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	72.30	
26 01 50 51-0306	EA		36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	82.33	
26 01 50 51-0307	EA		36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	82.33	
26 01 50 51-0308	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	88.91	
26 01 50 51-0309	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	88.91	
26 01 50 51-0310	EA		54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	98.79	
26 01 50 51-0311	EA		54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	98.79	
26 01 50 51-0312	EA		65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	182.13	
26 01 50 51-0313	EA		80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	211.44	
26 01 50 51-0314	EA		100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	253.17	
26 01 50 51-0315	EA		120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	498.91	
26 01 50 51-0316	EA		150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	470.84	
26 01 50 51-0317	EA		200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	498.91	
26 01 50 51-0318	EA		250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	501.09	
26 01 50 51-0319	EA		24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	71.81	
26 01 50 51-0320	EA		24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	71.81	
26 01 50 51-0321	EA		24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	71.81	
26 01 50 51-0322	EA		100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	217.85	
26 01 50 51-0323			LED Tubes (Fluorescent Lamp Replacement) (26 01 50 51-0110)		
26 01 50 51-0324	EA		2', 1,250 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	25.09	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0325	EA		2', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	32.08	
			For Multiple Lamps In Fixture, Deduct	-2.42	
26 01 50 51-0326	EA		3', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	27.47	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0327	EA		4', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	29.51	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0328	EA		4', 2,200 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	32.13	
			For Multiple Lamps In Fixture, Deduct	-2.72	
26 01 50 51-0329			Filament LED Lamps (26 01 50 51-0110)		
26 01 50 51-0330	EA		7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	20.47	
26 01 50 51-0331	EA		4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	20.47	
26 01 50 51-0332	EA		4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	19.40	
26 01 50 51-0333	EA		4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	19.40	
26 01 50 51-0334	EA		4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	21.11	
26 01 50 51-0335	EA		4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	21.11	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0336 EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827)	17.26	
26 01 50 51-0337 EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26)	17.26	
26 01 50 51-0338 EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	17.90	
26 01 50 51-0339 EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A)	22.61	
26 01 50 51-0340 Other Lamps (26 01 50 51-0110)		
26 01 50 51-0341 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1)	19.23	
26 01 50 51-0342 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	19.23	
26 01 50 51-0343 EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	19.23	
26 01 50 51-0344 EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	20.30	
26 01 50 51-0345 EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1)	20.30	
26 01 50 51-0346 EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1)	20.30	
26 01 50 51-0347 Recycle Hazardous Lamps (26 01 50 51)		
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift, 26 01 50 51-0001 for removal of lamps from fixtures.		
26 01 50 51-0348 EA Recycle 2' Length Linear Fluorescent Lamps	0.26	
26 01 50 51-0349 EA Recycle 3' Length Linear Fluorescent Lamps	0.39	
26 01 50 51-0350 EA Recycle 4' Length Linear Fluorescent Lamps	0.51	
26 01 50 51-0351 EA Recycle 6' Length Linear Fluorescent Lamps	0.77	
26 01 50 51-0352 EA Recycle 8' Length Linear Fluorescent Lamps	1.03	
26 01 50 51-0353 EA Recycle Compact Fluorescent Lamps	0.46	
26 01 50 51-0354 EA Recycle U-Shaped Or Circular Fluorescent Lamps	0.46	
26 01 50 51-0355 EA Recycle High Intensity Discharge (HID) Lamps	1.61	
26 01 50 52 Ballasts And Accessories (26 01 50)		
26 01 50 52-0001 High Intensity Discharge (HID) Ballasts (26 01 50 52)		
26 01 50 52-0002 Magnetic High Intensity Discharge (HID) Ballasts (26 01 50 52-0001)		
26 01 50 52-0003 Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0004 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)		
26 01 50 52-0005 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	116.12	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0006 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	118.84	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0007 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	118.84	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0008 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	106.63	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0009 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	106.63	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0010 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	162.96	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0011 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	162.96	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0012 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	208.64	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0013 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	231.94	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0014 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)		
26 01 50 52-0015 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	105.38	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0016 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	111.46	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0017 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	108.83	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0018 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	127.10	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0019 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	124.49	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0020 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	141.44	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0021 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	141.44	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0022 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	169.63	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0023 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	169.63	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0024 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	268.56	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62
26 01 50 52-0025 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	268.56	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.62



Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation and Maintenance of Lighting		26 01 50

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0026			Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)		
26 01 50 52-0027	EA		Single Mounting Bracket For Core And Coil Type	9.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 01 50 52-0028	EA		Double Mounting Bracket For Core And Coil Type	13.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 01 50 52-0029			F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0030			Metal Halide, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0029)		
26 01 50 52-0031	EA		1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	146.06	22.91
			For Pulse Start Ballast, Add	11.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0032	EA		1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	153.60	22.91
			For Pulse Start Ballast, Add	12.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0033	EA		1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	140.35	22.91
			For Pulse Start Ballast, Add	10.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0034	EA		1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	162.12	22.91
			For Pulse Start Ballast, Add	13.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0035	EA		1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	223.13	22.91
			For Pulse Start Ballast, Add	19.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0036			High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0029)		
26 01 50 52-0037	EA		1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	174.63	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0038	EA		1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	186.38	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0039			Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0040			Metal Halide, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0039)		
26 01 50 52-0041	EA		1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	287.30	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0042			High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0039)		
26 01 50 52-0043	EA		1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	439.95	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0044	EA		1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	490.06	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0045	EA		1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	472.72	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0046			Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0047			Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0048	EA		1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	352.57	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0049	EA		1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	399.48	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0050	EA		1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	526.01	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0051	EA		1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	523.28	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0052	EA		2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	731.43	24.74
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.17	
26 01 50 52-0053	EA		2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	731.43	24.74
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.17	
26 01 50 52-0054	EA		1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	504.67	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0055	EA		1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	592.85	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0056			High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0057	EA		1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	653.48	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0058	EA		1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	622.41	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	
26 01 50 52-0059	EA		1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	798.61	22.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.62	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0060 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	798.61 9.62	22.91
26 01 50 52-0061 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0062 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		
26 01 50 52-0063 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	395.56 9.62	22.91
26 01 50 52-0064 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	426.87 9.62	22.91
26 01 50 52-0065 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	423.79 9.62	22.91
26 01 50 52-0066 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	444.77 9.62	22.91
26 01 50 52-0067 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	704.07 10.17	24.74
26 01 50 52-0068 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	864.27 10.17	24.74
26 01 50 52-0069 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	657.13 9.62	22.91
26 01 50 52-0070 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	598.72 9.62	22.91
26 01 50 52-0071 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		
26 01 50 52-0072 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	509.18 9.62	22.91
26 01 50 52-0073 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	548.68 9.62	22.91
26 01 50 52-0074 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	816.84 9.62	22.91
26 01 50 52-0075 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	703.54 9.62	22.91
26 01 50 52-0076 Electronic High Intensity Discharge (HID) Ballasts (26 01 50 52-0001)		
26 01 50 52-0077 Electronic Low Frequency High Intensity Discharge (HID) Ballasts (26 01 50 52-0076)		
26 01 50 52-0078 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	161.08 9.62	22.91
26 01 50 52-0079 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	161.08 9.62	22.91
26 01 50 52-0080 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	180.87 9.62	22.91
26 01 50 52-0081 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	458.27 9.62	22.91
26 01 50 52-0082 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	458.27 9.62	22.91
26 01 50 52-0083 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	458.27 9.62	22.91
26 01 50 52-0084 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	458.27 9.62	22.91
26 01 50 52-0085 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	458.27 9.62	22.91
26 01 50 52-0086 Owner Supplied Ballasts (26 01 50 52)		
26 01 50 52-0087 EA Install Owner Supplied, 1 Lamp Fluorescent Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.32 5.50	
26 01 50 52-0088 EA Install Owner Supplied, 2 Lamp Fluorescent Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91 6.87	
26 01 50 52-0089 EA Install Owner Supplied, 3 Lamp Fluorescent Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57 7.97	
26 01 50 52-0090 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.41 8.52	
26 01 50 52-0091 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.07 9.62	
26 01 50 52-0092 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.91 10.17	
26 01 50 53 Lens and Accessory Replacement (26 01 50)		
26 01 50 53-0001 EA Parabolic Aluminum Louver Replacement	104.11	
26 01 50 53-0002 EA Visor For Fixtures.....	191.06	
26 01 50 53-0003 EA Replace Globe On Pole	248.81	
26 01 50 53-0004 EA Replace Lenses For Flat Top Pole Fixtures	88.83	
26 01 50 53-0005 EA Replace 1' x 4' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick	28.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 53-0006 EA Replace 2' x 2' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick.....	29.62	
26 01 50 53-0007 EA Replace 2' x 4' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick.....	36.40	
26 01 50 53-0008 EA Replace Slide-On Lampholder.....	11.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 01 50 53-0009 EA Replace Screw Mount Lampholder.....	11.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 01 50 53-0010 EA Replace Medium Bi-Pin Lampholder	13.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 01 50 53-0011 EA Replace Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type	17.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 01 50 53-0012 EA Replace Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	19.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 01 50 53-0013 EA Replace Compact Twin-Tube Lampholder, Snap-in	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 01 50 53-0014 EA Replace Exterior Light Globes	44.42	

26 05 Common Work Results For Electrical (26)

26 05 13 Medium-Voltage Cables (26 05)

26 05 13 00-0001 Wire And Cable (26 05 13)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 00-0002 5 KV Cable (26 05 13 00-0001)

26 05 13 00-0003 Pulled In Duct, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)

26 05 13 00-0004 MLF #6 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	2,711.43	712.43
26 05 13 00-0005 MLF #4 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	3,202.59	777.91
26 05 13 00-0006 MLF #2 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	3,817.00	878.92
26 05 13 00-0007 MLF #1/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	4,947.09	1,082.86
26 05 13 00-0008 MLF #2/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	5,633.14	1,219.40
26 05 13 00-0009 MLF #3/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	6,898.94	1,353.50
26 05 13 00-0010 MLF #4/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	7,765.17	1,520.80
26 05 13 00-0011 MLF 250 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	9,206.09	1,691.94
26 05 13 00-0012 MLF 350 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	10,736.71	2,020.14
26 05 13 00-0013 MLF 500 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	13,518.17	2,374.63
26 05 13 00-0014 MLF 750 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	18,145.64	2,030.29
26 05 13 00-0015 MLF 1,000 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	26,614.85	3,222.69

26 05 13 00-0016 Direct Burial, Cross-Linked Polyethylene (XLP) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)

Note: Excludes excavation.

26 05 13 00-0017 MLF #6 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	2,622.39	
26 05 13 00-0018 MLF #4 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	2,949.78	
26 05 13 00-0019 MLF #2 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	3,311.64	
26 05 13 00-0020 MLF #1/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,099.27	
26 05 13 00-0021 MLF #2/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,443.89	
26 05 13 00-0022 MLF #3/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	5,541.36	
26 05 13 00-0023 MLF #4/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	5,989.36	
26 05 13 00-0024 MLF 250 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	7,173.60	
26 05 13 00-0025 MLF 350 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	7,972.59	
26 05 13 00-0026 MLF 500 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	9,947.94	

26 05 13 00-0027 Aerial, Cross-Linked Polyethylene (XLP) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)

Note: Installed on poles.

26 05 13 00-0028 MLF #6 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	2,109.93	448.12
26 05 13 00-0029 MLF #4 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	2,522.70	480.49
26 05 13 00-0030 MLF #2 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	3,218.98	607.61
26 05 13 00-0031 MLF #1/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	4,181.53	737.62
26 05 13 00-0032 MLF #2/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	4,863.82	865.90
26 05 13 00-0033 MLF #3/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	6,121.68	990.25
26 05 13 00-0034 MLF #4/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	6,987.39	1,148.98
26 05 13 00-0035 MLF 250 MCM Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	8,781.03	1,445.48
26 05 13 00-0036 MLF 350 MCM Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	10,500.37	1,828.98
26 05 13 00-0037 MLF 500 MCM Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	13,630.17	2,297.94

26 05 13 00-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 00-0002)

26 05 13 00-0039 MLF 1/0 5 KV Non-Shielded, Single Copper Conductor	5,875.05	1,419.78
26 05 13 00-0040 MLF 3/0 5 KV Non-Shielded, Single Copper Conductor	7,605.09	1,460.60
26 05 13 00-0041 MLF 4/0 5 KV Non-Shielded, Single Copper Conductor	7,918.20	1,492.87
26 05 13 00-0042 MLF 350 MCM 5 KV Non-Shielded, Single Copper Conductor.....	9,439.64	1,549.83
26 05 13 00-0043 MLF 500 MCM 5 KV Non-Shielded, Single Copper Conductor.....	13,362.90	1,624.24
26 05 13 00-0044 MLF 750 MCM 5 KV Non-Shielded, Single Copper Conductor.....	20,579.59	2,030.29

26 Electrical**26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0045 MLF 1,000 MCM 5 KV Non-Shielded, Single Copper Conductor.....	23,821.89	2,707.10
26 05 13 00-0046 Placed In Duct, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)		
26 05 13 00-0047 MLF #6 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	2,878.92	712.43
26 05 13 00-0048 MLF #4 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	3,429.01	777.91
26 05 13 00-0049 MLF #2 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	4,108.55	878.92
26 05 13 00-0050 MLF #1 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	4,729.29	980.84
26 05 13 00-0051 MLF #1/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	5,350.29	1,082.86
26 05 13 00-0052 MLF #2/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	6,098.37	1,219.40
26 05 13 00-0053 MLF #3/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	7,531.66	1,353.50
26 05 13 00-0054 MLF #4/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	8,478.54	1,520.80
26 05 13 00-0055 MLF 250 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	10,101.82	1,691.94
26 05 13 00-0056 MLF 350 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	11,760.23	2,020.14
26 05 13 00-0057 MLF 500 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	14,882.86	2,374.63
26 05 13 00-0058 MLF 750 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	20,498.22	2,030.29
26 05 13 00-0059 MLF 1,000 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	29,955.30	3,222.69
26 05 13 00-0060 Direct Burial, Ethylene-Propylene Rubber (EPR) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)		
Note: Excludes excavation.		
26 05 13 00-0061 MLF #6 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	2,789.88	
26 05 13 00-0062 MLF #4 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,176.20	
26 05 13 00-0063 MLF #2 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,603.19	
26 05 13 00-0064 MLF #1 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,053.22	
26 05 13 00-0065 MLF #1/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,502.47	
26 05 13 00-0066 MLF #2/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,909.13	
26 05 13 00-0067 MLF #3/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	6,174.08	
26 05 13 00-0068 MLF #4/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	6,702.73	
26 05 13 00-0069 MLF 250 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	8,069.34	
26 05 13 00-0070 MLF 350 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	8,996.11	
26 05 13 00-0071 MLF 500 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	11,312.63	
26 05 13 00-0072 Aerial, Ethylene-Propylene Rubber (EPR) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)		
Note: Installed on poles.		
26 05 13 00-0073 MLF #6 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	2,277.42	448.12
26 05 13 00-0074 MLF #4 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	2,749.12	480.49
26 05 13 00-0075 MLF #2 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	3,510.53	607.61
26 05 13 00-0076 MLF #1 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	4,046.44	672.14
26 05 13 00-0077 MLF #1/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	4,584.73	737.62
26 05 13 00-0078 MLF #2/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	5,329.05	865.90
26 05 13 00-0079 MLF #3/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	6,754.40	990.25
26 05 13 00-0080 MLF #4/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	7,700.76	1,148.98
26 05 13 00-0081 MLF 250 MCM Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	9,676.77	1,445.48
26 05 13 00-0082 MLF 350 MCM Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	11,523.89	1,828.98
26 05 13 00-0083 MLF 500 MCM Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	14,994.86	2,297.94
26 05 13 00-0084 15 KV Cable (26 05 13 00-0001)		
26 05 13 00-0085 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0084)		
26 05 13 00-0086 Placed In Duct, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0085)		
26 05 13 00-0087 MLF #4 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,380.35	1,419.78
26 05 13 00-0088 MLF #2 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,752.81	1,419.78
26 05 13 00-0089 MLF #1 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,894.87	1,419.78
26 05 13 00-0090 MLF #1/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,357.68	1,419.78
26 05 13 00-0091 MLF #2/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,796.95	1,419.78
26 05 13 00-0092 MLF #3/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,689.76	1,482.01
26 05 13 00-0093 MLF #4/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,862.33	1,482.01
26 05 13 00-0094 MLF 250 MCM, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,973.32	1,549.83
26 05 13 00-0095 MLF 350 MCM, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	10,076.03	1,586.17
26 05 13 00-0096 MLF 500 MCM, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	12,326.51	1,786.66
26 05 13 00-0097 Direct Burial, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0085)		
Note: Excludes excavation.		
26 05 13 00-0098 MLF #1 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	4,367.62	
26 05 13 00-0099 MLF #1/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	4,830.42	
26 05 13 00-0100 MLF #2/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,269.69	
26 05 13 00-0101 MLF #3/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,182.13	
26 05 13 00-0102 MLF #4/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,354.69	
26 05 13 00-0103 MLF 250 MCM, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,549.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0104	MLF		350 MCM, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	8,654.83	
26 05 13 00-0105	MLF		500 MCM Cable, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation	10,702.28	
26 05 13 00-0106			Aerial, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0085) Note: Installed on poles.		
26 05 13 00-0107	MLF		#1 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	4,030.36	640.17
26 05 13 00-0108	MLF		#1/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	4,749.71	737.62
26 05 13 00-0109	MLF		#2/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	5,526.65	865.90
26 05 13 00-0110	MLF		#3/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	6,591.40	990.25
26 05 13 00-0111	MLF		#4/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	7,181.67	1,148.98
26 05 13 00-0112	MLF		250 MCM, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	8,619.50	1,337.55
26 05 13 00-0113	MLF		350 MCM, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	10,213.09	1,558.59
26 05 13 00-0114	MLF		500 MCM, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	12,625.38	1,810.45
26 05 13 00-0115			Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0084)		
26 05 13 00-0116			Placed In Duct, Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0115)		
26 05 13 00-0117	MLF		#4 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	5,709.91	1,419.78
26 05 13 00-0118	MLF		#2 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	6,149.41	1,419.78
26 05 13 00-0119	MLF		#1 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	6,317.05	1,419.78
26 05 13 00-0120	MLF		#1/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	6,863.16	1,419.78
26 05 13 00-0121	MLF		#2/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	7,381.50	1,419.78
26 05 13 00-0122	MLF		#3/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	8,407.03	1,482.01
26 05 13 00-0123	MLF		#4/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	8,610.66	1,482.01
26 05 13 00-0124	MLF		250 MCM, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	9,891.08	1,549.83
26 05 13 00-0125	MLF		350 MCM, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	11,175.94	1,586.17
26 05 13 00-0126	MLF		500 MCM, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	13,741.28	1,786.66
26 05 13 00-0127			Direct Burial, Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0115) Note: Excludes excavation.		
26 05 13 00-0128	MLF		#1 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	4,789.79	
26 05 13 00-0129	MLF		#1/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	5,335.90	
26 05 13 00-0130	MLF		#2/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	5,854.24	
26 05 13 00-0131	MLF		#3/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	6,899.40	
26 05 13 00-0132	MLF		#4/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	7,103.02	
26 05 13 00-0133	MLF		250 MCM, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	8,465.03	
26 05 13 00-0134	MLF		350 MCM, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	9,748.39	
26 05 13 00-0135	MLF		500 MCM, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	12,117.05	
26 05 13 00-0136			Aerial, Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0115) Note: Installed on poles.		
26 05 13 00-0137	MLF		#1 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	4,452.53	640.17
26 05 13 00-0138	MLF		#1/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	5,255.19	737.62
26 05 13 00-0139	MLF		#2/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	6,111.20	865.90
26 05 13 00-0140	MLF		#3/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	7,308.67	990.25
26 05 13 00-0141	MLF		#4/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	7,930.00	1,148.98
26 05 13 00-0142	MLF		250 MCM, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	9,537.27	1,337.55
26 05 13 00-0143	MLF		350 MCM, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	11,313.00	1,558.59
26 05 13 00-0144	MLF		500 MCM, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	14,040.15	1,810.45
26 05 13 00-0145			15 KV Non-Shielded Single Copper Conductor (26 05 13 00-0084)		
26 05 13 00-0146	MLF		1/0 15 KV Non-Shielded, Single Copper Conductor	7,373.20	1,424.76
26 05 13 00-0147	MLF		3/0 15 KV Non-Shielded, Single Copper Conductor	9,378.49	1,492.87
26 05 13 00-0148	MLF		350 MCM 15 KV Non-Shielded, Single Copper Conductor	12,629.75	1,592.36
26 05 13 00-0149			Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 00-0084) Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 00-0150			Galvanized Steel Interlocked Armor Cable (26 05 13 00-0149)		
26 05 13 00-0151	LF		#2 AWG TC 3 Conductor 15 KV Galvanized Armored Shielded, Laid In Cable Tray Or Hung Vertically	37.33	10.86
26 05 13 00-0152	LF		#1/0 AWG TC 3 Conductor 15 KV Galvanized Armored Shielded, Laid In Cable Tray Or Hung Vertically	43.85	11.58
26 05 13 00-0153			Aluminum Interlocked Armor Cable (26 05 13 00-0149)		
26 05 13 00-0154	LF		#2 AWG TC 3 Conductor 15 KV Aluminum Armored Shielded, Laid In Cable Tray Or Hung Vertically	37.33	10.86
26 05 13 00-0155	LF		#1/0 AWG TC 3 Conductor 15 KV Aluminum Armored Shielded, Laid In Cable Tray Or Hung Vertically	43.85	11.58

26 Electrical**26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0156	Type URD, 15 KV Primary Concentric UD Cable (26 05 13 00-0084) Note: 0.175" XLPE insulation, copper conductor.			
26 05 13 00-0157	MLF	#4 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	2,668.98	712.43
26 05 13 00-0158	MLF	#2 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	3,145.20	777.91
26 05 13 00-0159	MLF	#1 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	3,743.10	878.92
26 05 13 00-0160	MLF	#1/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	4,837.68	1,079.91
26 05 13 00-0161	MLF	#2/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	5,506.09	1,215.74
26 05 13 00-0162	MLF	#3/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	6,738.56	1,353.50
26 05 13 00-0163	MLF	#4/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	7,570.17	1,515.11
26 05 13 00-0164	15 KV URD Cable Copper Direct Burial (26 05 13 00-0084)			
26 05 13 00-0165	MLF	15 KV 3/C URD Cable Copper Direct Burial #6	11,523.07	
26 05 13 00-0166	35 KV And 70 KV Cable (26 05 13 00-0001)			
26 05 13 00-0167	35 KV, Shielded, Single Copper Conductor (26 05 13 00-0166)			
26 05 13 00-0168	MLF	3/0 35 KV Shielded, Single Copper Conductor	13,063.69	2,358.34
26 05 13 00-0169	70 KV, Shielded, Single Copper Conductor (26 05 13 00-0166)			
26 05 13 00-0170	MLF	350 MCM 70 KV Shielded, Single Copper Conductor.....	39,886.20	2,688.54
26 05 13 00-0171	Wire Connections (26 05 13 00-0001)			
26 05 13 00-0172	Medium Voltage Up To 5 KV (26 05 13 00-0171)			
26 05 13 00-0173	Shielded One Conductor Cable Splice (26 05 13 00-0172)			
26 05 13 00-0174	EA	#6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	238.82	91.50
26 05 13 00-0175	EA	#2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	289.60	91.50
26 05 13 00-0176	EA	1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	289.60	91.50
26 05 13 00-0177	EA	2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	316.83	109.79
26 05 13 00-0178	EA	3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	316.83	109.79
26 05 13 00-0179	EA	4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	316.83	109.79
26 05 13 00-0180	EA	250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	353.14	128.10
26 05 13 00-0181	EA	350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	353.14	128.10
26 05 13 00-0182	EA	500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	353.14	128.10
26 05 13 00-0183	Cable Termination Without Stress Cone (26 05 13 00-0172)			
26 05 13 00-0184	EA	#6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	222.14	109.79
26 05 13 00-0185	EA	250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV.....	262.82	128.10
26 05 13 00-0186	Cable Termination With Stress Cone (26 05 13 00-0172)			
26 05 13 00-0187	EA	#6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	872.03	219.60
26 05 13 00-0188	EA	250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV.....	1,203.84	301.94
26 05 13 00-0189	Connect To Pothead, Pothead Included (26 05 13 00-0172)			
26 05 13 00-0190	EA	#6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	902.69	219.60
26 05 13 00-0191	EA	250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	1,132.85	251.62
26 05 13 00-0192	Two Conductor Pothead (26 05 13 00-0172) Note: Includes 5 KV pothead.			
26 05 13 00-0193	EA	#6 To 4/0 AWG 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	794.71	301.94
26 05 13 00-0194	EA	250 To 350 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,039.58	384.29
26 05 13 00-0195	EA	400 To 700 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,452.53	435.70
26 05 13 00-0196	EA	750 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV	2,178.90	508.35
26 05 13 00-0197	EA	1,000 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV	3,849.47	762.45
26 05 13 00-0198	Three Conductor Pothead (26 05 13 00-0172) Note: Includes 5 KV pothead.			
26 05 13 00-0199	EA	#6 To 4/0 3/c 5 KV Pothead (Included) Medium Voltage To 5 KV	2,489.89	439.18
26 05 13 00-0200	EA	250 To 500 MCM 3/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,755.00	512.38
26 05 13 00-0201	Copper Cable Splice, Crimp Compression Connection (26 05 13 00-0172) Note: For bare wire.			
26 05 13 00-0202	EA	#6 AWG Crimp Compression Connection For Bare Copper Wire.....	57.93	
26 05 13 00-0203	EA	#4 AWG Crimp Compression Connection For Bare Copper Wire.....	63.66	
26 05 13 00-0204	EA	#3 AWG Crimp Compression Connection For Bare Copper Wire.....	74.24	
26 05 13 00-0205	EA	#2 AWG Crimp Compression Connection For Bare Copper Wire.....	84.39	
26 05 13 00-0206	EA	#1 AWG Crimp Compression Connection For Bare Copper Wire.....	95.15	
26 05 13 00-0207	EA	1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	105.66	
26 05 13 00-0208	EA	2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	116.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0209	EA		3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	126.92	
26 05 13 00-0210	EA		4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	137.50	
26 05 13 00-0211	EA		250 MCM Crimp Compression Connection For Bare Copper Wire.....	148.26	
26 05 13 00-0212	EA		300 MCM Crimp Compression Connection For Bare Copper Wire.....	159.26	
26 05 13 00-0213	EA		350 MCM Crimp Compression Connection For Bare Copper Wire.....	169.70	
26 05 13 00-0214	EA		400 MCM Crimp Compression Connection For Bare Copper Wire.....	191.55	
26 05 13 00-0215	EA		500 MCM Crimp Compression Connection For Bare Copper Wire.....	213.98	
26 05 13 00-0216 Aluminum Cable Splice, Crimp Compression Connection (26 05 13 00-0172)					
Note: For bare wire.					
26 05 13 00-0217	EA		#6 AWG Crimp Compression Connection For Bare Aluminum Wire	59.02	
26 05 13 00-0218	EA		#4 AWG Crimp Compression Connection For Bare Aluminum Wire	64.27	
26 05 13 00-0219	EA		#2 AWG Crimp Compression Connection For Bare Aluminum Wire	86.39	
26 05 13 00-0220	EA		#1 AWG Crimp Compression Connection For Bare Aluminum Wire	100.22	
26 05 13 00-0221	EA		1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	110.45	
26 05 13 00-0222	EA		2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	120.66	
26 05 13 00-0223	EA		3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	132.23	
26 05 13 00-0224	EA		4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	143.11	
26 05 13 00-0225	EA		250 MCM Crimp Compression Connection For Bare Aluminum Wire	153.74	
26 05 13 00-0226	EA		300 MCM Crimp Compression Connection For Bare Aluminum Wire	164.62	
26 05 13 00-0227	EA		350 MCM Crimp Compression Connection For Bare Aluminum Wire	175.32	
26 05 13 00-0228	EA		400 MCM Crimp Compression Connection For Bare Aluminum Wire	199.61	
26 05 13 00-0229	EA		500 MCM Crimp Compression Connection For Bare Aluminum Wire	224.04	
26 05 13 00-0230 15 KV (26 05 13 00-0171)					
26 05 13 00-0231 Single Conductor Pothead On Racks (26 05 13 00-0230)					
Note: Includes pothead.					
26 05 13 00-0232	EA		#2 To 4/0 AWG 1/c 15 KV Pothead (Included), On Racks.....	975.52	384.29
26 05 13 00-0233	EA		250 To 500 MCM 1/c 15 KV Pothead (Included), On Racks.....	1,235.47	475.78
26 05 13 00-0234 Two Conductor Pothead On Rack (26 05 13 00-0230)					
Note: Includes pothead.					
26 05 13 00-0235	EA		#2 To 4/0 AWG 2/c 15 KV Pothead (Included), On Racks.....	1,460.36	585.58
26 05 13 00-0236	EA		250 To 500 MCM 2/c 15 KV Pothead (Included), On Racks.....	1,744.83	695.37
26 05 13 00-0237 Three Conductor Pothead On Rack (26 05 13 00-0230)					
Note: Includes pothead.					
26 05 13 00-0238	EA		#2 To 4/0 AWG 3/c 15 KV Pothead (Included), On Racks.....	1,877.25	759.42
26 05 13 00-0239	EA		250 To 500 MCM 3/c 15 KV Pothead (Included), On Racks.....	2,341.62	951.57
26 05 13 00-0240 Stress Relief Cone On Rack (26 05 13 00-0230)					
26 05 13 00-0241	EA		#2 To 4/0 AWG Stress Relief Cone, On Rack	938.47	384.29
26 05 13 00-0242	EA		250 To 500 MCM Stress Relief Cone, On Rack	1,193.81	475.78
26 05 13 00-0243 Grounded, Shielded Cable Splice (26 05 13 00-0230)					
26 05 13 00-0244	EA		#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV	666.26	283.64
26 05 13 00-0245	EA		250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV	856.04	365.98
26 05 13 00-0246	EA		3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way	3,413.19	1,006.46
26 05 13 00-0247	EA		3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way	4,201.96	1,097.96
26 05 13 00-0248 Cable Termination (26 05 13 00-0230)					
26 05 13 00-0249	EA		#2 To 3/0 AWG Cable Termination 15 KV	415.87	160.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				96.07	
26 05 13 00-0250	EA		4/0 To 250 MCM Cable Termination 15 KV	528.74	205.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				123.52	
26 05 13 00-0251	EA		350 To 500 MCM Cable Termination 15 KV	652.14	251.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				150.97	
26 05 13 00-0252	EA		#2 To 3/0 AWG Cable Elbow Termination 15 KV	255.13	91.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				54.90	
26 05 13 00-0253 Stress Cones, 5-15 KV, 4 Skirted (26 05 13 00-0230)					
26 05 13 00-0254	EA		#4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	451.48	118.94
26 05 13 00-0255	EA		2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	510.30	131.47
26 05 13 00-0256	EA		4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	594.61	143.87
26 05 13 00-0257	EA		400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	746.82	165.76
26 05 13 00-0258 Stress Cones, 5-15 KV, 6 Skirted (26 05 13 00-0230)					
26 05 13 00-0259	EA		#4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	902.98	238.29
26 05 13 00-0260	EA		2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,020.69	262.92
26 05 13 00-0261	EA		4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,178.55	282.39

26 Electrical**26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0262 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,493.63	331.51
26 05 13 00-0263 35 KV (26 05 13 00-0171)		
26 05 13 00-0264 35 KV One Conductor Splice (26 05 13 00-0263)		
26 05 13 00-0265 EA Cable Splicing, #1 Stranded To 4/0 Stranded, 35 KV	1,658.19	
26 05 13 00-0266 Cable Termination (26 05 13 00-0263)		
26 05 13 00-0267 EA #2 To 3/0 AWG Cable Termination 35 KV	335.15	109.88
26 05 13 00-0268 EA 3/0 AWG To 250 MCM Cable Termination 35 KV	472.71	165.80
26 05 13 00-0269 EA 350 To 500 MCM Cable Termination 35 KV	534.35	177.32
26 05 13 00-0270 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV	270.05	91.50
26 05 13 00-0271 70 KV (26 05 13 00-0171)		
26 05 13 00-0272 Cable Splice (26 05 13 00-0271)		
26 05 13 00-0273 EA Cable Splicing, 350 MCM 70 KV	6,188.00	
26 05 13 00-0274 EA Cable Splicing, #2 To 4/0 70 KV	1,695.67	

26 05 19 Low-Voltage Electrical Power Conductors And Cables (26 05)**26 05 19 16 Low-Voltage, Single-And Multi-Conductor Cables** (26 05 19)**26 05 19 16-0001 Cable Installation Methods** (26 05 19 16)**26 05 19 16-0002 Pull Cord** (26 05 19 16-0001)

Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit.
Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.

26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.28	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits.....	0.15	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit	0.65	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.37	

26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)

Note: For installation under roads, driveways or other structures up to 20'.

26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand	2.48	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand	3.17	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge	347.83	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		

26 05 19 16-0011 Wire and Cable (26 05 19 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 19 16-0012 600 Volt Wire (26 05 19 16-0011)**26 05 19 16-0013 Single Solid Conductor, Copper** (26 05 19 16-0012)

26 05 19 16-0014 MLF #14 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit	489.89	203.01
26 05 19 16-0015 MLF #12 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit	609.51	238.82
26 05 19 16-0016 MLF #10 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit	748.04	292.01
26 05 19 16-0017 MLF #14 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit	647.73	203.01
26 05 19 16-0018 MLF #12 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit	782.90	238.82
26 05 19 16-0019 MLF #10 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit	939.27	292.01

26 05 19 16-0020 Power Cable, Stranded Conductor, Copper (26 05 19 16-0012)**26 05 19 16-0021 Power Cable, Stranded, Single Conductor, XHHW-2** (26 05 19 16-0020)

26 05 19 16-0022 MLF #16 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	516.35	167.30
26 05 19 16-0023 MLF #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	610.38	200.76
26 05 19 16-0024 MLF #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	748.18	234.22
26 05 19 16-0025 MLF #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	915.56	267.67
26 05 19 16-0026 MLF #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	1,214.89	334.59
26 05 19 16-0027 MLF #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	1,629.43	401.50
26 05 19 16-0028 MLF #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	2,219.52	501.89
26 05 19 16-0029 MLF #3 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	2,620.20	568.80
26 05 19 16-0030 MLF #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	3,093.67	635.72
26 05 19 16-0031 MLF #1 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	3,815.15	702.64
26 05 19 16-0032 MLF 1/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	4,567.98	803.02
26 05 19 16-0033 MLF 2/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	5,458.36	903.39
26 05 19 16-0034 MLF 3/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	6,515.31	1,003.77
26 05 19 16-0035 MLF 4/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	7,784.52	1,104.14
26 05 19 16-0036 MLF 250 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	8,257.78	1,204.52
26 05 19 16-0037 MLF 300 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	9,762.80	1,304.90
26 05 19 16-0038 MLF 350 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit	10,417.78	1,405.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0039 MLF 400 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	11,637.49	1,505.65
26 05 19 16-0040 MLF 500 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	13,443.54	1,606.03
26 05 19 16-0041 MLF 600 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	15,456.60	1,739.86
26 05 19 16-0042 MLF 750 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	23,330.81	1,940.62
26 05 19 16-0043 MLF 1,000 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	32,800.36	2,275.21
26 05 19 16-0044 Power Cable, Stranded, Multi Conductor, XHHW-2 (26 05 19 16-0020)		
26 05 19 16-0045 MLF 2/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,220.74	401.42
26 05 19 16-0046 MLF 3/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,496.53	468.51
26 05 19 16-0047 MLF 4/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,856.05	568.80
26 05 19 16-0048 MLF 6/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,197.73	618.74
26 05 19 16-0049 MLF 7/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,390.36	652.37
26 05 19 16-0050 MLF 9/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,774.33	719.20
26 05 19 16-0051 MLF 10/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,982.51	749.64
26 05 19 16-0052 MLF 12/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,351.24	819.75
26 05 19 16-0053 MLF 14/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,694.02	870.10
26 05 19 16-0054 MLF 24/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,364.28	1,104.23
26 05 19 16-0055 MLF 37/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	8,112.82	1,639.49
26 05 19 16-0056 MLF 2/c #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,496.57	468.51
26 05 19 16-0057 MLF 3/c #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,910.05	568.80
26 05 19 16-0058 MLF 4/c #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,323.55	669.18
26 05 19 16-0059 MLF 2/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,997.75	602.01
26 05 19 16-0060 MLF 3/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,577.79	735.43
26 05 19 16-0061 MLF 4/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,328.04	937.02
26 05 19 16-0062 MLF 6/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,490.60	1,204.94
26 05 19 16-0063 MLF 9/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	6,065.34	1,539.19
26 05 19 16-0064 MLF 2/c #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,471.60	685.91
26 05 19 16-0065 MLF 3/c #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,142.77	803.02
26 05 19 16-0066 MLF 4/c #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,064.91	1,020.50
26 05 19 16-0067 MLF 2/c #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,175.29	769.55
26 05 19 16-0068 MLF 3/c #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,260.92	953.58
26 05 19 16-0069 MLF 4/c #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,442.83	1,176.08
26 05 19 16-0070 MLF 2/c #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,263.73	933.67
26 05 19 16-0071 MLF 3/c #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,564.27	1,067.93
26 05 19 16-0072 MLF 4/c #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	7,190.83	1,332.67
26 05 19 16-0073 MLF 2/c #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,851.90	1,137.27
26 05 19 16-0074 MLF 3/c #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	7,692.53	1,271.77
26 05 19 16-0075 MLF 4/c #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	10,199.85	1,672.94
26 05 19 16-0076 MLF 3/c #1 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	10,190.05	1,605.78
26 05 19 16-0077 MLF 4/c #1 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	13,250.92	2,006.70
26 05 19 16-0078 MLF 3/c #1/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	12,031.76	1,740.20
26 05 19 16-0079 MLF 3/c #2/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	14,616.33	2,006.70
26 05 19 16-0080 MLF 3/c #3/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	17,870.46	2,341.12
26 05 19 16-0081 MLF 4/c #3/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	23,548.59	3,010.05
26 05 19 16-0082 MLF 3/c #4/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	21,769.99	2,678.98
26 05 19 16-0083 MLF 3/c 250 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	23,264.42	3,010.05
26 05 19 16-0084 MLF 3/c 350 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	29,078.47	3,345.90
26 05 19 16-0085 MLF 3/c 500 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	37,478.67	3,677.30
26 05 19 16-0086 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper		
(26 05 19 16-0012) Note: Direct bury.		
26 05 19 16-0087 MLF #14 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	681.68	
26 05 19 16-0088 MLF #12 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	801.04	
26 05 19 16-0089 MLF #10 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	988.82	
26 05 19 16-0090 MLF #8 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	1,290.59	
26 05 19 16-0091 MLF #6 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	1,766.79	
26 05 19 16-0092 MLF #4 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	2,311.31	
26 05 19 16-0093 MLF #2 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	3,287.33	
26 05 19 16-0094 MLF #1 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	4,036.00	
26 05 19 16-0095 MLF #1/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	4,914.95	
26 05 19 16-0096 MLF #2/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	5,913.17	
26 05 19 16-0097 MLF #3/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	7,076.41	
26 05 19 16-0098 MLF #4/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	7,975.83	
26 05 19 16-0099 MLF 250 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	8,642.51	
26 05 19 16-0100 MLF 300 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	10,263.45	
26 05 19 16-0101 MLF 350 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	11,442.37	
26 05 19 16-0102 MLF 400 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	12,810.94	
26 05 19 16-0103 MLF 500 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	15,065.37	
26 05 19 16-0104 MLF 600 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	17,717.86	
26 05 19 16-0105 MLF 750 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	27,626.05	
26 05 19 16-0106 MLF #14 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	605.98	
26 05 19 16-0107 MLF #12 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	724.86	
26 05 19 16-0108 MLF #10 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	864.64	
26 05 19 16-0109 MLF #8 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,062.18	
26 05 19 16-0110 MLF #6 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,358.79	
26 05 19 16-0111 MLF #4 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,798.73	
26 05 19 16-0112 MLF #2 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	2,430.52	
26 05 19 16-0113 MLF #1 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	2,863.12	

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0114 MLF #1/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,242.88	
26 05 19 16-0115 MLF #2/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,654.51	
26 05 19 16-0116 MLF #3/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,235.03	
26 05 19 16-0117 MLF #4/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,931.56	
26 05 19 16-0118 MLF 250 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	5,581.59	
26 05 19 16-0119 MLF 300 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	6,265.83	
26 05 19 16-0120 MLF 350 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	7,006.32	
26 05 19 16-0121 MLF 400 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	7,771.28	
26 05 19 16-0122 MLF 500 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	9,013.59	
26 05 19 16-0123 MLF 750 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	14,883.90	
26 05 19 16-0124 MLF #14 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	498.75	
26 05 19 16-0125 MLF #12 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	617.10	
26 05 19 16-0126 MLF #10 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	758.60	
26 05 19 16-0127 MLF #8 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,054.08	
26 05 19 16-0128 MLF #6 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,418.21	
26 05 19 16-0129 MLF #4 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,855.06	
26 05 19 16-0130 MLF #2 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	2,630.06	
26 05 19 16-0131 MLF #1 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,117.05	
26 05 19 16-0132 MLF #1/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	3,624.91	
26 05 19 16-0133 MLF #2/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	4,101.84	
26 05 19 16-0134 MLF #3/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	4,835.30	
26 05 19 16-0135 MLF #4/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	5,736.56	
26 05 19 16-0136 MLF 250 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	6,708.48	
26 05 19 16-0137 MLF 300 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	7,719.56	
26 05 19 16-0138 MLF 350 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	8,803.50	
26 05 19 16-0139 MLF 400 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	9,850.67	
26 05 19 16-0140 MLF 500 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	11,637.65	
26 05 19 16-0141 MLF 600 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	13,941.10	
26 05 19 16-0142 MLF 750 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	21,733.80	
26 05 19 16-0143 MLF #2 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	4,385.12	
26 05 19 16-0144 MLF #1/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	6,304.19	
26 05 19 16-0145 MLF #2/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	6,998.51	
26 05 19 16-0146 MLF #3/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	7,950.90	
26 05 19 16-0147 MLF #4/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	8,837.43	
26 05 19 16-0148 MLF 250 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	9,522.69	
26 05 19 16-0149 MLF 350 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	13,679.21	
26 05 19 16-0150 MLF 400 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	14,872.84	
26 05 19 16-0151 MLF 500 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	16,971.03	
26 05 19 16-0152 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0012)		
26 05 19 16-0153 ACTHH, Solid (26 05 19 16-0152)		
26 05 19 16-0154 MLF #8 AWG Cable - Type ACT, 1 Conductor, Solid	1,890.54	548.98
26 05 19 16-0155 MLF #6 AWG Cable - Type ACT, 1 Conductor, Solid	2,177.16	622.18
26 05 19 16-0156 MLF #4 AWG Cable - Type ACT, 1 Conductor, Solid	2,475.40	658.78
26 05 19 16-0157 MLF #14 AWG Cable - Type ACTHH, 2 Conductors, Solid	2,763.17	914.96
26 05 19 16-0158 MLF #12 AWG Cable - Type ACTHH, 2 Conductors, Solid	2,973.71	1,024.58
26 05 19 16-0159 MLF #10 AWG Cable - Type ACTHH, 2 Conductors, Solid	3,716.59	1,135.20
26 05 19 16-0160 MLF #8 AWG Cable - Type ACTHH, 2 Conductors, Solid	4,786.52	1,244.81
26 05 19 16-0161 MLF #14 AWG Cable - Type ACTHH, 3 Conductors, Solid	3,316.85	1,024.58
26 05 19 16-0162 MLF #12 AWG Cable - Type ACTHH, 3 Conductors, Solid	3,493.24	1,135.20
26 05 19 16-0163 MLF #10 AWG Cable - Type ACTHH, 3 Conductors, Solid	4,416.21	1,281.50
26 05 19 16-0164 MLF #8 AWG Cable - Type ACTHH, 3 Conductors, Solid	5,654.95	1,390.57
26 05 19 16-0165 MLF #14 AWG Cable - Type ACTHH, 4 Conductors, Solid	3,929.27	1,135.20
26 05 19 16-0166 MLF #12 AWG Cable - Type ACTHH, 4 Conductors, Solid	4,316.83	1,281.50
26 05 19 16-0167 MLF #10 AWG Cable - Type ACTHH, 4 Conductors, Solid	5,432.41	1,427.43
26 05 19 16-0168 MLF #8 AWG Cable - Type ACTHH, 4 Conductors, Solid	6,953.29	1,537.79
26 05 19 16-0169 ACTHH, Stranded (26 05 19 16-0152)		
26 05 19 16-0170 MLF #8 AWG Cable - Type ACTHH, 2 Conductors, Stranded.....	4,970.38	1,318.37
26 05 19 16-0171 MLF #6 AWG Cable - Type ACTHH, 2 Conductors, Stranded.....	6,030.53	1,499.90
26 05 19 16-0172 MLF #8 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	5,838.49	1,463.95
26 05 19 16-0173 MLF #6 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	7,268.69	1,645.66
26 05 19 16-0174 MLF #4 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	9,127.54	1,829.93
26 05 19 16-0175 MLF #3 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	10,467.87	2,010.92
26 05 19 16-0176 MLF #2 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	11,964.30	2,194.18
26 05 19 16-0177 MLF #8 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	7,499.33	1,756.19
26 05 19 16-0178 MLF #6 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	9,027.20	1,938.45
26 05 19 16-0179 MLF #4 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	11,509.81	2,122.90
26 05 19 16-0180 MLF #3 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	12,607.71	2,304.71
26 05 19 16-0181 MLF #2 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	14,889.94	2,486.33
26 05 19 16-0182 HCFC, Solid (26 05 19 16-0152)		
26 05 19 16-0183 MLF #14 AWG Cable - Type HCF, 2 Conductors, Solid	3,062.00	914.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0184 MLF #12 AWG Cable - Type HCF, 2 Conductors, Solid	3,359.94	1,028.05
26 05 19 16-0185 MLF #10 AWG Cable - Type HCF, 2 Conductors, Solid	3,750.12	1,129.62
26 05 19 16-0186 MLF #14 AWG Cable - Type HCF, 3 Conductors, Solid	3,689.25	1,028.05
26 05 19 16-0187 MLF #12 AWG Cable - Type HCF, 3 Conductors, Solid	3,965.61	1,129.62
26 05 19 16-0188 MLF #10 AWG Cable - Type HCF, 3 Conductors, Solid	5,133.96	1,288.73
26 05 19 16-0189 MLF #14 AWG Cable - Type HCF, 4 Conductors, Solid	4,495.70	1,129.62
26 05 19 16-0190 MLF #12 AWG Cable - Type HCF, 4 Conductors, Solid	4,927.24	1,288.73
26 05 19 16-0191 MLF #10 AWG Cable - Type HCF, 4 Conductors, Solid	6,643.25	1,429.64
26 05 19 16-0192 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0152)		
26 05 19 16-0193 MLF #14 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor	2,792.68	914.96
26 05 19 16-0194 MLF #12 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor	3,119.66	1,028.05
26 05 19 16-0195 MLF #10 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor	3,742.86	1,129.62
26 05 19 16-0196 MLF #8 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor	4,770.62	1,207.12
26 05 19 16-0197 MLF #6 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor	5,924.90	1,279.67
26 05 19 16-0198 MLF #14 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	3,223.60	1,028.05
26 05 19 16-0199 MLF #12 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	3,635.07	1,129.62
26 05 19 16-0200 MLF #10 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	4,609.49	1,288.73
26 05 19 16-0201 MLF #8 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	5,971.63	1,390.57
26 05 19 16-0202 MLF #6 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	6,975.44	1,499.90
26 05 19 16-0203 MLF #4 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	8,616.25	1,610.89
26 05 19 16-0204 MLF #2 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	11,020.29	1,719.87
26 05 19 16-0205 MLF #14 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	3,733.43	1,129.62
26 05 19 16-0206 MLF #12 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	4,276.69	1,288.73
26 05 19 16-0207 MLF #10 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	6,430.92	1,429.64
26 05 19 16-0208 MLF #8 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	8,700.91	1,574.84
26 05 19 16-0209 MLF #6 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	10,620.21	1,685.01
26 05 19 16-0210 MLF #4 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	13,989.79	1,794.07
26 05 19 16-0211 MLF #2 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	18,050.13	1,902.22
26 05 19 16-0212 FPLP Solid TFN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0213 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	2,670.37	695.37
26 05 19 16-0214 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	3,039.28	805.17
26 05 19 16-0215 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	3,731.14	914.96
26 05 19 16-0216 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,268.78	1,024.76
26 05 19 16-0217 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	3,045.43	805.17
26 05 19 16-0218 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	3,583.64	914.96
26 05 19 16-0219 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	4,445.89	1,024.76
26 05 19 16-0220 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,043.88	1,134.56
26 05 19 16-0221 FPLP Solid THHN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0222 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	3,392.00	914.96
26 05 19 16-0223 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	4,163.18	1,024.76
26 05 19 16-0224 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	5,438.89	1,134.56
26 05 19 16-0225 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	6,274.90	1,244.35
26 05 19 16-0226 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	4,222.40	1,024.76
26 05 19 16-0227 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	5,114.28	1,134.56
26 05 19 16-0228 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0229 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	2,871.51	695.37
26 05 19 16-0230 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,562.10	1,024.76
26 05 19 16-0231 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	3,509.72	805.17
26 05 19 16-0232 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	4,130.07	914.96
26 05 19 16-0233 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	5,683.05	1,134.56
26 05 19 16-0234 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	4,114.84	951.57
26 05 19 16-0235 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	5,049.59	1,097.96
26 05 19 16-0236 Armored Cable Connectors (26 05 19 16-0152)		
26 05 19 16-0237 EA 3/4" Armored Cable Connector	5.44	2.00
For Work In Restricted Working Space, Add	1.51	
For Installation Above 14', Add	0.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.51	
26 05 19 16-0238 EA 1" Armored Cable Connector	6.41	2.35
For Work In Restricted Working Space, Add	1.76	
For Installation Above 14', Add	0.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.76	
26 05 19 16-0239 EA 1-1/4" Armored Cable Connector	9.11	3.35
For Work In Restricted Working Space, Add	2.51	
For Installation Above 14', Add	1.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.51	

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0240 600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0012)				
26 05 19 16-0241	MLF	#12 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	657.81	203.09
26 05 19 16-0242	MLF	#10 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	819.78	238.82
26 05 19 16-0243	MLF	#8 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	1,160.56	324.81
26 05 19 16-0244	MLF	#6 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	1,594.26	388.79
26 05 19 16-0245	MLF	#4 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	2,126.36	453.29
26 05 19 16-0246	MLF	#2 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	3,057.03	583.94
26 05 19 16-0247	MLF	#1 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	3,657.03	649.69
26 05 19 16-0248	MLF	#1/0 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	4,255.68	731.99
26 05 19 16-0249	MLF	#2/0 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	4,842.07	812.05
26 05 19 16-0250	MLF	#3/0 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	5,775.63	911.84
26 05 19 16-0251	MLF	#4/0 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	6,906.73	1,005.94
26 05 19 16-0252	MLF	250 MCM Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	8,133.48	1,105.81
26 05 19 16-0253	MLF	300 MCM Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	9,413.22	1,208.70
26 05 19 16-0254	MLF	350 MCM Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	10,791.58	1,299.29
26 05 19 16-0255	MLF	400 MCM Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	12,120.19	1,443.67
26 05 19 16-0256	MLF	500 MCM Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit	14,450.09	1,590.97
26 05 19 16-0257	MLF	#14 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	677.81	134.08
		For EPR Insulation, Add	26.39	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	61.57	
26 05 19 16-0258	MLF	#12 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	764.86	148.48
		For EPR Insulation, Add	26.90	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	62.77	
26 05 19 16-0259	MLF	#10 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	931.00	185.61
		For EPR Insulation, Add	39.27	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	91.64	
26 05 19 16-0260	MLF	#8 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	1,266.91	295.28
		For EPR Insulation, Add	64.56	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	150.65	
26 05 19 16-0261	MLF	#6 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	1,727.06	354.33
		For EPR Insulation, Add	108.49	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	253.15	
26 05 19 16-0262	MLF	#4 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	2,348.95	411.38
		For EPR Insulation, Add	164.14	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	382.98	
26 05 19 16-0263	MLF	#3 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	2,679.55	470.85
		For EPR Insulation, Add	188.63	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	440.14	
26 05 19 16-0264	MLF	#2 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	3,366.49	530.32
		For EPR Insulation, Add	266.58	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	622.02	
26 05 19 16-0265	MLF	#1 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	4,157.87	590.63
		For EPR Insulation, Add	360.19	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	840.45	
26 05 19 16-0266	MLF	#1/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	5,006.57	666.33
		For EPR Insulation, Add	449.86	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,049.66	
26 05 19 16-0267	MLF	#2/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	6,028.34	738.94
		For EPR Insulation, Add	565.48	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,319.45	
26 05 19 16-0268	MLF	#3/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	7,220.32	824.93
		For EPR Insulation, Add	706.64	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,648.82	
26 05 19 16-0269	MLF	#4/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	8,140.19	917.19
		For EPR Insulation, Add	806.97	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,882.94	
26 05 19 16-0270	MLF	250 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	8,672.95	1,005.94
		For EPR Insulation, Add	849.25	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,981.57	
26 05 19 16-0271	MLF	300 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	10,216.64	1,105.81
		For EPR Insulation, Add	1,043.16	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,434.04	
26 05 19 16-0272	MLF	350 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	11,389.35	1,172.32
		For EPR Insulation, Add	1,181.42	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,756.66	
26 05 19 16-0273	MLF	400 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	12,750.44	1,310.25
		For EPR Insulation, Add	1,347.95	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,145.21	
26 05 19 16-0274	MLF	500 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	14,552.39	1,457.22
		For EPR Insulation, Add	1,580.60	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,688.06	
26 05 19 16-0275	MLF	600 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	17,017.52	1,516.11
		For EPR Insulation, Add	1,900.18	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,433.75	
26 05 19 16-0276	MLF	750 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	27,473.69	1,574.92
		For EPR Insulation, Add	3,393.32	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	7,917.75	
26 05 19 16-0277	MLF	1,000 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	34,537.56	1,682.82
		For EPR Insulation, Add	4,402.71	
		For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	10,273.00	
26 05 19 16-0278	MLF	#16 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit	1,113.91	300.96
26 05 19 16-0279	MLF	#14 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit	1,372.84	334.59
26 05 19 16-0280	MLF	#12 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit	1,714.21	401.85
26 05 19 16-0281	MLF	#10 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit	2,028.67	468.26



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0282	MLF	#8 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,928.49	501.39
26 05 19 16-0283	MLF	#18 AWG Cable - Type TFFN 600 Volt Copper, Single Stranded, Placed In Conduit	388.09	167.30
26 05 19 16-0284	MLF	#16 AWG Cable - Type TFFN 600 Volt Copper, Single Stranded, Placed In Conduit	484.08	184.03
26 05 19 16-0285	MLF	#14 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	494.92	134.17
26 05 19 16-0286	MLF	#12 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	611.61	159.93
26 05 19 16-0287	MLF	#10 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	750.37	201.17
26 05 19 16-0288	MLF	#8 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	1,039.73	265.16
26 05 19 16-0289	MLF	#6 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	1,394.49	320.21
26 05 19 16-0290	MLF	#4 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	1,818.50	378.42
26 05 19 16-0291	MLF	#3 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	2,164.81	428.36
26 05 19 16-0292	MLF	#2 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	2,572.53	479.72
26 05 19 16-0293	MLF	#1 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	3,044.30	541.37
26 05 19 16-0294	MLF	#1/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	3,539.93	592.81
26 05 19 16-0295	MLF	#2/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	4,002.11	655.12
26 05 19 16-0296	MLF	#3/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	4,708.61	692.93
26 05 19 16-0297	MLF	#4/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	5,578.91	779.59
26 05 19 16-0298	MLF	250 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	6,516.49	829.36
26 05 19 16-0299	MLF	300 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	7,491.37	939.28
26 05 19 16-0300	MLF	350 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	8,535.65	1,039.49
26 05 19 16-0301	MLF	400 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	9,544.92	1,067.93
26 05 19 16-0302	MLF	500 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	11,258.74	1,129.82
26 05 19 16-0303	MLF	600 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	13,857.46	1,329.57
26 05 19 16-0304	MLF	750 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	20,913.93	1,574.92
26 05 19 16-0305	MLF	1,000 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit	25,013.31	1,901.48
26 05 19 16-0306	MLF	#16 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,511.15	401.85
26 05 19 16-0307	MLF	#14 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,708.81	468.26
26 05 19 16-0308	MLF	#12 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,970.26	535.76
26 05 19 16-0309	MLF	#10 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,437.06	602.01
26 05 19 16-0310	MLF	#8 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,744.07	669.18
26 05 19 16-0311	MLF	#6 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,344.75	735.43
26 05 19 16-0312		Non-Metallic Sheathed Cable (26 05 19 16-0012)		
26 05 19 16-0313		Indoor Installation (26 05 19 16-0312)		
		Note: For NM, NM-B, NMC-B and NMS-B.		
26 05 19 16-0314	MLF	#14-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	1,837.39	635.64
		For Installation In Wood Stud Wall (Includes Drilling), Add	238.36	
26 05 19 16-0315	MLF	#14-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	2,261.27	769.55
		For Installation In Wood Stud Wall (Includes Drilling), Add	288.60	
26 05 19 16-0316	MLF	#12-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	2,035.16	722.71
		For Installation In Wood Stud Wall (Includes Drilling), Add	257.22	
26 05 19 16-0317	MLF	#12-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	2,502.15	802.85
		For Installation In Wood Stud Wall (Includes Drilling), Add	301.08	
26 05 19 16-0318	MLF	#10-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	2,537.54	803.27
		For Installation In Wood Stud Wall (Includes Drilling), Add	301.23	
26 05 19 16-0319	MLF	#10-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	3,110.13	937.02
		For Installation In Wood Stud Wall (Includes Drilling), Add	351.38	
26 05 19 16-0320	MLF	#8-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	3,230.03	961.95
		For Installation In Wood Stud Wall (Includes Drilling), Add	342.54	
26 05 19 16-0321	MLF	#8-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	4,188.99	1,162.70
		For Installation In Wood Stud Wall (Includes Drilling), Add	414.06	
26 05 19 16-0322	MLF	#6-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	3,883.37	1,095.78
		For Installation In Wood Stud Wall (Includes Drilling), Add	388.96	
26 05 19 16-0323	MLF	#6-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	5,001.97	1,321.63
		For Installation In Wood Stud Wall (Includes Drilling), Add	470.52	
26 05 19 16-0324	MLF	#4-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	6,475.20	1,455.47
		For Installation In Wood Stud Wall (Includes Drilling), Add	517.57	
26 05 19 16-0325	MLF	#2-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	8,990.81	1,580.93
		For Installation In Wood Stud Wall (Includes Drilling), Add	564.62	
26 05 19 16-0326		Direct Burial Cable (26 05 19 16-0312)		
		Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0327	MLF	#14-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	1,975.01	
26 05 19 16-0328	MLF	#14-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	2,506.07	
26 05 19 16-0329	MLF	#12-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	2,501.77	
26 05 19 16-0330	MLF	#12-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	2,941.08	
26 05 19 16-0331	MLF	#10-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	2,788.27	
26 05 19 16-0332	MLF	#10-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	3,508.31	
26 05 19 16-0333	MLF	#8-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	3,750.63	
26 05 19 16-0334	MLF	#8-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	4,745.88	
26 05 19 16-0335	MLF	#6-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	4,838.60	
26 05 19 16-0336	MLF	#6-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	5,763.86	
26 05 19 16-0337		SEU Cable Copper, 3 Conductor (26 05 19 16-0312)		
26 05 19 16-0338	MLF	12-12-12 Cable SEU Copper	2,410.57	805.44
26 05 19 16-0339	MLF	10-10-10 Cable SEU Copper	2,997.11	914.96
26 05 19 16-0340	MLF	8-8-8 Cable SEU Copper	3,695.87	1,024.58
26 05 19 16-0341	MLF	6-6-8 Cable SEU Copper	4,422.85	1,098.42
26 05 19 16-0342	MLF	6-6-6 Cable SEU Copper	4,744.25	1,135.20

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0343 MLF 4-4-6 Cable SEU Copper	5,743.13	1,244.81
26 05 19 16-0344 MLF 4-4-4 Cable SEU Copper	6,171.00	1,281.50
26 05 19 16-0345 MLF 3-3-5 Cable SEU Copper	7,155.97	1,390.57
26 05 19 16-0346 MLF 3-3-3 Cable SEU Copper	7,597.12	1,463.95
26 05 19 16-0347 MLF 2-2-4 Cable SEU Copper	8,108.32	1,537.79
26 05 19 16-0348 MLF 2-2-2 Cable SEU Copper	8,659.48	1,610.89
26 05 19 16-0349 MLF 1-1-1 Cable SEU Copper	10,559.47	1,829.93
26 05 19 16-0350 MLF 1/0-1/0-1/0 Cable SEU Copper	12,530.97	2,051.54
26 05 19 16-0351 MLF 2/0-2/0-2/0 Cable SEU Copper	15,044.74	2,310.56
26 05 19 16-0352 MLF 3/0-3/0-3/0 Cable SEU Copper	18,041.75	2,570.14
26 05 19 16-0353 MLF 4/0-4/0-4/0 Cable SEU Copper	20,161.50	2,868.23
26 05 19 16-0354 SER Cable Copper, 4 Conductor (26 05 19 16-0312)		
26 05 19 16-0355 MLF 6-6-6 Cable SER Copper	7,529.54	1,318.37
26 05 19 16-0356 MLF 4-4-4-6 Cable SER Copper	9,670.21	1,427.43
26 05 19 16-0357 MLF 3-3-3-5 Cable SER Copper	11,344.62	1,610.89
26 05 19 16-0358 MLF 2-2-2-4 Cable SER Copper	13,225.02	1,756.19
26 05 19 16-0359 MLF 1-1-1-3 Cable SER Copper	16,089.74	2,010.92
26 05 19 16-0360 MLF 1/0-1/0-1/0-2 Cable SER Copper	20,431.06	2,304.71
26 05 19 16-0361 MLF 2/0-2/0-2/0-1 Cable SER Copper	24,364.13	2,486.33
26 05 19 16-0362 MLF 3/0-3/0-3/0-1/0 Cable SER Copper	29,357.05	2,781.04
26 05 19 16-0363 Control Tray Cable, Low Voltage (26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0364 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable	865.95	405.77
For Installation On Exposed Surface, Deduct	-135.26	
For Work In Restricted Working Space, Add	202.88	
26 05 19 16-0365 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable	1,000.37	453.91
For Installation On Exposed Surface, Deduct	-151.30	
For Work In Restricted Working Space, Add	226.95	
26 05 19 16-0366 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable	1,050.05	453.87
For Installation On Exposed Surface, Deduct	-151.30	
For Work In Restricted Working Space, Add	226.95	
26 05 19 16-0367 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable	1,314.61	569.29
For Installation On Exposed Surface, Deduct	-189.76	
For Work In Restricted Working Space, Add	284.64	
26 05 19 16-0368 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable	1,657.49	693.72
For Installation On Exposed Surface, Deduct	-231.24	
For Work In Restricted Working Space, Add	346.86	
26 05 19 16-0369 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable	1,894.65	762.87
For Installation On Exposed Surface, Deduct	-254.29	
For Work In Restricted Working Space, Add	381.43	
26 05 19 16-0370 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable	2,257.55	866.81
For Installation On Exposed Surface, Deduct	-288.93	
For Work In Restricted Working Space, Add	433.40	
26 05 19 16-0371 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable	2,858.67	1,059.48
For Installation On Exposed Surface, Deduct	-353.16	
For Work In Restricted Working Space, Add	529.74	
26 05 19 16-0372 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable	3,272.16	1,155.84
For Installation On Exposed Surface, Deduct	-385.28	
For Work In Restricted Working Space, Add	577.92	
26 05 19 16-0373 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable	3,892.37	1,191.97
For Installation On Exposed Surface, Deduct	-397.32	
For Work In Restricted Working Space, Add	595.99	
26 05 19 16-0374 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable	4,771.43	1,489.09
For Installation On Exposed Surface, Deduct	-496.36	
For Work In Restricted Working Space, Add	744.55	
26 05 19 16-0375 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable	5,727.49	1,740.28
For Installation On Exposed Surface, Deduct	-580.09	
For Work In Restricted Working Space, Add	870.14	
26 05 19 16-0376 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable	948.93	427.43
For Installation On Exposed Surface, Deduct	-142.37	
For Work In Restricted Working Space, Add	213.55	
26 05 19 16-0377 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable	1,101.15	477.79
For Installation On Exposed Surface, Deduct	-159.26	
For Work In Restricted Working Space, Add	238.90	
26 05 19 16-0378 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable	1,283.69	550.06
For Installation On Exposed Surface, Deduct	-183.35	
For Work In Restricted Working Space, Add	275.03	
26 05 19 16-0379 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable	1,455.98	599.24
For Installation On Exposed Surface, Deduct	-199.75	
For Work In Restricted Working Space, Add	299.62	
26 05 19 16-0380 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable	1,843.67	730.24
For Installation On Exposed Surface, Deduct	-243.41	
For Work In Restricted Working Space, Add	365.12	
26 05 19 16-0381 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable	2,117.37	803.02
For Installation On Exposed Surface, Deduct	-267.67	
For Work In Restricted Working Space, Add	401.51	
26 05 19 16-0382 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable	2,536.81	912.42
For Installation On Exposed Surface, Deduct	-304.14	
For Work In Restricted Working Space, Add	456.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0383 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,224.74 -371.73 557.60	1,115.19
26 05 19 16-0384 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,709.82 -405.52 608.28	1,216.57
26 05 19 16-0385 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	4,473.38 -418.24 627.36	1,254.71
26 05 19 16-0386 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	5,474.33 -522.46 783.69	1,567.39
26 05 19 16-0387 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	6,586.90 -610.63 915.94	1,831.87
26 05 19 16-0388 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,031.52 -148.72 223.09	446.18
26 05 19 16-0389 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,237.28 -167.30 250.94	501.89
26 05 19 16-0390 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,452.85 -191.22 286.83	573.66
26 05 19 16-0391 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,639.36 -205.94 308.91	617.82
26 05 19 16-0392 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,193.66 -252.45 378.67	757.34
26 05 19 16-0393 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,534.70 -278.88 418.32	836.48
26 05 19 16-0394 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,125.15 -311.17 466.75	933.50
26 05 19 16-0395 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,732.79 -371.73 557.60	1,115.02
26 05 19 16-0396 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	6,403.98 -431.79 647.68	1,295.70
26 05 19 16-0397 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	5,618.78 -505.06 757.60	1,514.86
26 05 19 16-0398 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	6,542.05 -564.29 846.43	1,692.85
26 05 19 16-0399 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	7,891.28 -659.48 989.21	1,978.42
26 05 19 16-0400 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,208.40 -159.26 238.90	477.79
26 05 19 16-0401 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,450.95 -176.16 264.24	528.65
26 05 19 16-0402 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,770.24 -202.76 304.14	608.29
26 05 19 16-0403 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,010.47 -215.81 323.72	647.43
26 05 19 16-0404 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,663.87 -257.30 385.95	771.90
26 05 19 16-0405 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,293.24 -304.14 456.21	912.42
26 05 19 16-0406 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	4,018.76 -343.12 514.68	1,029.37
26 05 19 16-0407 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	4,790.72 -393.64 590.47	1,180.93
26 05 19 16-0408 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	5,674.32 -446.17 669.26	1,338.53
26 05 19 16-0409 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	7,292.64 -521.46 782.19	1,564.37
26 05 19 16-0410 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	8,442.17 -609.45 914.18	1,828.37

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0411 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	10,222.86 -712.34 1,068.51	2,137.02
26 05 19 16-0412 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,451.78 -167.30 250.94	501.89
26 05 19 16-0413 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,825.61 -183.35 275.03	550.40
26 05 19 16-0414 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,231.04 -209.12 313.68	627.35
26 05 19 16-0415 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,601.96 -226.85 340.28	680.55
26 05 19 16-0416 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,534.90 -284.73 427.10	854.21
26 05 19 16-0417 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	4,201.47 -318.70 478.04	956.09
26 05 19 16-0418 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	4,895.66 -371.73 557.60	1,115.19
26 05 19 16-0419 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	5,794.73 -425.10 637.64	1,275.29
26 05 19 16-0420 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	6,885.53 -481.81 722.72	1,445.42
26 05 19 16-0421 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	8,906.53 -563.11 844.67	1,689.34
26 05 19 16-0422 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	10,304.06 -658.14 987.21	1,974.42
26 05 19 16-0423 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	12,506.44 -769.39 1,154.08	2,308.16
26 05 19 16-0424 ACSR (Aluminum Conductor Steel Reinforced) (26 05 19 16-0011) Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0425 ACSR Cable (26 05 19 16-0424)		
26 05 19 16-0426 MLF #4 AWG ACSR Cable Swan 6/1 Installed On Poles, Aluminum Cable.....	1,173.87	415.57
26 05 19 16-0427 MLF #4 AWG ACSR Cable Swanate 7/1 Installed On Poles, Aluminum Cable.....	1,232.17	431.51
26 05 19 16-0428 MLF #2 AWG ACSR Cable Sparrow 6/1 Installed On Poles, Aluminum Cable.....	1,303.78	448.12
26 05 19 16-0429 MLF #2 AWG ACSR Cable Sparate 7/1 Installed On Poles, Aluminum Cable.....	1,362.61	464.35
26 05 19 16-0430 MLF #1/0 AWG ACSR Cable Raven 6/1 Installed On Poles, Aluminum Cable.....	1,461.83	480.10
26 05 19 16-0431 MLF #2/0 AWG ACSR Cable Quail 6/1 Installed On Poles, Aluminum Cable.....	1,680.38	544.24
26 05 19 16-0432 MLF #3/0 AWG ACSR Cable Pigeon 6/1 Installed On Poles, Aluminum Cable.....	1,909.47	606.94
26 05 19 16-0433 MLF #4/0 AWG ACSR Cable Penguin 6/1 Installed On Poles, Aluminum Cable.....	2,154.58	670.50
26 05 19 16-0434 MLF #1 Bare Aluminum Wire.....	1,625.65	577.50
26 05 19 16-0435 MLF 336 AWG ACSR Cable Merlin 18/1 Installed On Pole, Aluminum Cable.....	2,639.08	861.68
26 05 19 16-0436 MLF 477 AWG ACSR Cable Hawk 26/1 Installed On Pole, Aluminum Cable.....	3,014.35	988.42
26 05 19 16-0437 All Aluminum Conductors (26 05 19 16-0424)		
26 05 19 16-0438 MLF 795.0 ACSR Conductor Aluminum.....	22,290.14	8,121.19
26 05 19 16-0439 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0440 Bare Stranded Conductor (26 05 19 16-0439)		
26 05 19 16-0441 MLF #12 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,029.26	352.10
26 05 19 16-0442 MLF #10 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,191.36	383.79
26 05 19 16-0443 MLF #8 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,354.49	415.86
26 05 19 16-0444 MLF #6 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,628.30	448.12
26 05 19 16-0445 MLF #4 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,947.29	480.49
26 05 19 16-0446 MLF #2 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	2,732.28	576.31
26 05 19 16-0447 MLF #1 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	3,128.59	640.17
26 05 19 16-0448 MLF #1/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	3,556.26	702.86
26 05 19 16-0449 MLF #2/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	4,714.16	833.64
26 05 19 16-0450 MLF #3/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	5,693.69	958.47
26 05 19 16-0451 MLF #4/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	6,140.32	1,086.27
26 05 19 16-0452 MLF 250 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	7,724.45	1,280.23
26 05 19 16-0453 MLF 300 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	7,920.85	1,347.63
26 05 19 16-0454 MLF 350 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	9,751.90	1,411.30
26 05 19 16-0455 MLF 400 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	10,730.97	1,469.20
26 05 19 16-0456 MLF 500 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	12,418.63	1,531.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0457 Insulated Stranded Conductor (26 05 19 16-0439)		
26 05 19 16-0458 MLF #12 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	1,098.34	352.10
26 05 19 16-0459 MLF #10 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	1,280.50	383.79
26 05 19 16-0460 MLF #8 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	1,530.45	415.86
26 05 19 16-0461 MLF #6 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	1,661.61	448.12
26 05 19 16-0462 MLF #4 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	1,998.11	480.49
26 05 19 16-0463 MLF #2 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	2,658.89	576.31
26 05 19 16-0464 MLF #1 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	3,121.27	640.17
26 05 19 16-0465 MLF #1/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	3,658.45	702.86
26 05 19 16-0466 MLF #2/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	4,400.37	833.64
26 05 19 16-0467 MLF #3/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	5,256.29	958.47
26 05 19 16-0468 MLF #4/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	6,174.44	1,086.27
26 05 19 16-0469 MLF 250 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles	7,515.68	1,280.23
26 05 19 16-0470 MLF 300 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles	8,473.48	1,347.63
26 05 19 16-0471 MLF 350 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles	9,258.94	1,411.30
26 05 19 16-0472 MLF 400 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles	10,322.23	1,469.20
26 05 19 16-0473 MLF 500 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles	11,549.26	1,531.89
26 05 19 16-0474 Bare Solid Conductor (26 05 19 16-0439)		
26 05 19 16-0475 MLF #12 AWG 1/c Bare Solid Copper Cable, Installed On Poles	1,029.26	352.10
26 05 19 16-0476 MLF #8 AWG 1/c Bare Solid Copper Cable, Installed On Poles	1,354.49	415.86
26 05 19 16-0477 MLF #6 AWG 1/c Bare Solid Copper Cable, Installed On Poles	1,628.30	448.12
26 05 19 16-0478 MLF #4 AWG 1/c Bare Solid Copper Cable, Installed On Poles	1,926.29	480.49
26 05 19 16-0479 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)		
26 05 19 16-0480 Multi-Conductor Cords (26 05 19 16-0479) Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0481 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0480) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0482 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0481)		
26 05 19 16-0483 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0482)		
26 05 19 16-0484 LF 2/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.00	0.37
26 05 19 16-0485 LF 3/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.05	0.37
26 05 19 16-0486 LF 4/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.20	0.37
26 05 19 16-0487 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0482)		
26 05 19 16-0488 LF 2/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.16	0.37
26 05 19 16-0489 LF 3/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.25	0.37
26 05 19 16-0490 LF 4/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.38	0.37
26 05 19 16-0491 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0482)		
26 05 19 16-0492 LF 2/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.33	0.37
26 05 19 16-0493 LF 3/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.48	0.37
26 05 19 16-0494 LF 4/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.76	0.37
26 05 19 16-0495 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0482)		
26 05 19 16-0496 LF 2/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.58	0.37
26 05 19 16-0497 LF 3/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	1.75	0.37
26 05 19 16-0498 LF 4/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.00	0.37
26 05 19 16-0499 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0482)		
26 05 19 16-0500 LF 2/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.10	0.46
26 05 19 16-0501 LF 3/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.22	0.46
26 05 19 16-0502 LF 4/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.40	0.46
26 05 19 16-0503 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0481)		
26 05 19 16-0504 #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0505 LF 2/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.05	0.37
26 05 19 16-0506 LF 3/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.15	0.37
26 05 19 16-0507 LF 4/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.29	0.37
26 05 19 16-0508 LF 5/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.34	0.49
26 05 19 16-0509 LF 6/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.57	0.51
26 05 19 16-0510 LF 7/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.75	0.52
26 05 19 16-0511 LF 8/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.04	0.53
26 05 19 16-0512 LF 10/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.53	0.56

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0513	LF	12/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.05	0.58
26 05 19 16-0514	LF	14/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.43	0.59
26 05 19 16-0515	LF	16/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.53	0.60
26 05 19 16-0516	LF	18/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.69	0.62
26 05 19 16-0517	LF	20/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.35	0.63
26 05 19 16-0518	LF	24/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.09	0.64
26 05 19 16-0519	LF	30/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.43	0.68
26 05 19 16-0520 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)				
26 05 19 16-0521	LF	2/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.25	0.37
26 05 19 16-0522	LF	3/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.34	0.37
26 05 19 16-0523	LF	4/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.52	0.37
26 05 19 16-0524	LF	5/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.46	0.49
26 05 19 16-0525	LF	6/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.73	0.51
26 05 19 16-0526	LF	7/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.01	0.52
26 05 19 16-0527	LF	8/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.35	0.53
26 05 19 16-0528	LF	9/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.49	0.55
26 05 19 16-0529	LF	10/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.91	0.56
26 05 19 16-0530	LF	12/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.60	0.58
26 05 19 16-0531	LF	14/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.95	0.59
26 05 19 16-0532	LF	16/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.62	0.60
26 05 19 16-0533	LF	18/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.55	0.62
26 05 19 16-0534	LF	20/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.38	0.63
26 05 19 16-0535	LF	24/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.97	0.64
26 05 19 16-0536	LF	26/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.90	0.66
26 05 19 16-0537	LF	30/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.57	0.68
26 05 19 16-0538 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)				
26 05 19 16-0539	LF	2/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.50	0.37
26 05 19 16-0540	LF	3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.61	0.37
26 05 19 16-0541	LF	4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.87	0.37
26 05 19 16-0542	LF	5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.27	0.49
26 05 19 16-0543	LF	6/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.97	0.51
26 05 19 16-0544	LF	7/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.20	0.52
26 05 19 16-0545	LF	8/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.76	0.53
26 05 19 16-0546	LF	9/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.13	0.55
26 05 19 16-0547	LF	10/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.76	0.56
26 05 19 16-0548	LF	12/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.36	0.58
26 05 19 16-0549	LF	14/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.04	0.59
26 05 19 16-0550	LF	16/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.52	0.60
26 05 19 16-0551	LF	20/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.59	0.63
26 05 19 16-0552	LF	24/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.36	0.64
26 05 19 16-0553	LF	30/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	13.48	0.68
26 05 19 16-0554 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)				
26 05 19 16-0555	LF	2/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.77	0.37
26 05 19 16-0556	LF	3/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.96	0.37
26 05 19 16-0557	LF	4/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.16	0.37
26 05 19 16-0558	LF	5/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.79	0.49
26 05 19 16-0559	LF	6/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.43	0.51
26 05 19 16-0560	LF	7/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.09	0.52
26 05 19 16-0561	LF	8/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.80	0.53
26 05 19 16-0562	LF	9/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.29	0.55
26 05 19 16-0563	LF	10/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.17	0.56
26 05 19 16-0564	LF	12/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.19	0.58
26 05 19 16-0565	LF	14/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.14	0.59
26 05 19 16-0566	LF	16/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.09	0.60
26 05 19 16-0567	LF	18/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.55	0.62
26 05 19 16-0568	LF	20/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.21	0.63
26 05 19 16-0569	LF	24/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	13.90	0.64
26 05 19 16-0570	LF	26/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	15.61	0.66
26 05 19 16-0571	LF	28/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	16.15	0.67
26 05 19 16-0572	LF	30/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	16.74	0.68
26 05 19 16-0573 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)				
26 05 19 16-0574	LF	2/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.05	0.46
26 05 19 16-0575	LF	3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.22	0.46
26 05 19 16-0576	LF	4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.39	0.46
26 05 19 16-0577	LF	5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.24	0.49
26 05 19 16-0578	LF	6/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.48	0.51
26 05 19 16-0579	LF	7/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.49	0.52
26 05 19 16-0580	LF	10/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.42	0.56
26 05 19 16-0581	LF	12/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.68	0.58
26 05 19 16-0582	LF	16/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.41	0.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0583 LF 20/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	18.20	0.63
26 05 19 16-0584 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0585 LF 3/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.26	0.55
26 05 19 16-0586 LF 4/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.65	0.64
26 05 19 16-0587 LF 5/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.45	0.64
26 05 19 16-0588 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0589 LF 3/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.22	0.64
26 05 19 16-0590 LF 4/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.53	0.73
26 05 19 16-0591 LF 5/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.04	0.91
26 05 19 16-0592 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0593 LF 3/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.01	0.91
26 05 19 16-0594 LF 4/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.01	1.00
26 05 19 16-0595 LF 5/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.34	1.10
26 05 19 16-0596 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0597 LF 3/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	14.76	1.83
26 05 19 16-0598 LF 4/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	18.82	2.28
26 05 19 16-0599 LF 5/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	22.59	3.02
26 05 19 16-0600 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0481)		
26 05 19 16-0601 #18, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0600)		
26 05 19 16-0602 LF 2/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.39	0.37
26 05 19 16-0603 LF 3/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.55	0.37
26 05 19 16-0604 LF 4/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.88	0.37
26 05 19 16-0605 #16, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0600)		
26 05 19 16-0606 LF 2/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.49	0.37
26 05 19 16-0607 LF 3/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.75	0.37
26 05 19 16-0608 LF 4/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.87	0.37
26 05 19 16-0609 #14, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0600)		
26 05 19 16-0610 LF 2/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.14	0.37
26 05 19 16-0611 LF 3/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	3.20	0.37
26 05 19 16-0612 LF 4/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	4.14	0.46
26 05 19 16-0613 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0481)		
26 05 19 16-0614 #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0613)		
26 05 19 16-0615 LF 2/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.06	0.37
26 05 19 16-0616 LF 3/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.50	0.37
26 05 19 16-0617 LF 4/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.97	0.37
26 05 19 16-0618 #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0613)		
26 05 19 16-0619 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.22	0.37
26 05 19 16-0620 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.67	0.37
26 05 19 16-0621 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.39	0.37
26 05 19 16-0622 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.67	0.46
26 05 19 16-0623 #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0613)		
26 05 19 16-0624 LF 3/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.78	0.37
26 05 19 16-0625 LF 4/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.37	0.37
26 05 19 16-0626 LF 5/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.77	0.46
26 05 19 16-0627 #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0613)		
26 05 19 16-0628 LF 3/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.33	0.37
26 05 19 16-0629 LF 4/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.85	0.37
26 05 19 16-0630 LF 5/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.30	0.46
26 05 19 16-0631 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0613)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0632	LF	3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.83	0.46
26 05 19 16-0633	LF	4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.29	0.46
26 05 19 16-0634	LF	5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.74	0.46
26 05 19 16-0635		Multi-Conductor Type SEOW Cord (26 05 19 16-0480) Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0636		600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0635)		
26 05 19 16-0637		#16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0636)		
26 05 19 16-0638	LF	3/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	1.51	0.37
26 05 19 16-0639	LF	4/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	1.68	0.37
26 05 19 16-0640	LF	5/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.65	0.46
26 05 19 16-0641		#14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0636)		
26 05 19 16-0642	LF	3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.05	0.37
26 05 19 16-0643	LF	4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.39	0.37
26 05 19 16-0644	LF	5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	3.50	0.46
26 05 19 16-0645		#12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0636)		
26 05 19 16-0646	LF	3/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.60	0.37
26 05 19 16-0647	LF	4/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	3.04	0.37
26 05 19 16-0648	LF	5/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	3.87	0.46
26 05 19 16-0649		#10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0636)		
26 05 19 16-0650	LF	3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	3.34	0.46
26 05 19 16-0651	LF	4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	3.87	0.46
26 05 19 16-0652	LF	5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	4.15	0.46
26 05 19 16-0653		Multi-Conductor Type W Cord (26 05 19 16-0480) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0654		2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0653)		
26 05 19 16-0655		#8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0654)		
26 05 19 16-0656	LF	3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	4.70	0.55
26 05 19 16-0657	LF	4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	5.06	0.64
26 05 19 16-0658	LF	5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	6.02	0.64
26 05 19 16-0659		#6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0654)		
26 05 19 16-0660	LF	3/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	5.03	0.64
26 05 19 16-0661	LF	4/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	6.01	0.73
26 05 19 16-0662	LF	5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	7.49	0.91
26 05 19 16-0663		#4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0654)		
26 05 19 16-0664	LF	3/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	6.98	0.64
26 05 19 16-0665	LF	4/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	8.25	0.73
26 05 19 16-0666	LF	5/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	10.65	0.91
26 05 19 16-0667		Cord Grips, Cable Reels, Extension Cords, And Accessories (26 05 19 16-0479)		
26 05 19 16-0668		Cord Grips (26 05 19 16-0667)		
26 05 19 16-0669	EA	Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel	57.46	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.64	
26 05 19 16-0670	EA	Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel	57.69	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.64	
26 05 19 16-0671		Cable Reels (26 05 19 16-0667) Note: Includes handling, mounting, electrical connections and installing cord. See CSI section 26 05 19 16-0479 for cords.		
26 05 19 16-0672	EA	30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A)	561.21	45.75
26 05 19 16-0673	EA	50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1)	1,570.43	45.75
26 05 19 16-0674	EA	50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K)	1,171.49	45.75
26 05 19 16-0675		Extension Cords (26 05 19 16-0667)		
26 05 19 16-0676	EA	Extension Cord, 120 Volt 12/3, 100 Ft	94.91	
26 05 19 16-0677	EA	Extension Cord, 240 Volt 10/3, 100 Ft	142.84	



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0678 Plugs And Connector Bodies (26 05 19 16-0667)			
Note: Up to 277 volts.			
26 05 19 16-0679 NEMA Twist-Lock Plugs (26 05 19 16-0678)			
26 05 19 16-0680	EA 15 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C)	64.70	
26 05 19 16-0681	EA 15 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	66.16	
26 05 19 16-0682	EA 20 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	60.02	
26 05 19 16-0683	EA 20 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	64.52	
26 05 19 16-0684	EA 20 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	85.59	
26 05 19 16-0685	EA 20 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	91.30	
26 05 19 16-0686	EA 20 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	96.88	
26 05 19 16-0687	EA 30 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	86.44	
26 05 19 16-0688	EA 30 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	100.16	
26 05 19 16-0689	EA 30 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	102.84	
26 05 19 16-0690	EA 30 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	106.24	
26 05 19 16-0691 NEMA Twist-Lock Connector Bodies (26 05 19 16-0678)			
26 05 19 16-0692	EA 15 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	68.83	
26 05 19 16-0693	EA 15 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	73.99	
26 05 19 16-0694	EA 20 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	63.12	
26 05 19 16-0695	EA 20 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	86.44	
26 05 19 16-0696	EA 20 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	101.50	
26 05 19 16-0697	EA 20 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	108.79	
26 05 19 16-0698	EA 20 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	133.32	
26 05 19 16-0699	EA 30 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	127.13	
26 05 19 16-0700	EA 30 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	157.86	
26 05 19 16-0701	EA 30 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	166.00	
26 05 19 16-0702	EA 30 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	157.13	
26 05 19 16-0703 Watertight Pin And Sleeve Plug (26 05 19 16-0678)			
26 05 19 16-0704	EA 20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	179.45	27.45
26 05 19 16-0705	EA 20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	181.26	27.45
26 05 19 16-0706	EA 20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	195.29	27.45
26 05 19 16-0707	EA 20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	196.55	30.19
26 05 19 16-0708	EA 20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	193.83	30.19
26 05 19 16-0709	EA 20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	194.64	30.19
26 05 19 16-0710	EA 30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	270.91	33.76
26 05 19 16-0711	EA 30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	264.13	33.76
26 05 19 16-0712	EA 30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	293.24	33.76
26 05 19 16-0713	EA 30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	289.45	37.06
26 05 19 16-0714	EA 30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	277.69	37.06
26 05 19 16-0715	EA 30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	285.78	37.06
26 05 19 16-0716	EA 60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	367.41	43.92
26 05 19 16-0717	EA 60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	373.86	43.92
26 05 19 16-0718	EA 60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	358.56	43.92
26 05 19 16-0719	EA 60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	407.93	48.86
26 05 19 16-0720	EA 60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	397.89	48.86
26 05 19 16-0721	EA 60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	402.23	48.86
26 05 19 16-0722	EA 100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	502.32	54.90
26 05 19 16-0723	EA 100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	527.24	54.90
26 05 19 16-0724	EA 100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	516.43	60.39
26 05 19 16-0725	EA 100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	507.92	60.39
26 05 19 16-0726	EA 100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	512.52	60.39
26 05 19 16-0727 Watertight Pin And Sleeve Connector (26 05 19 16-0678)			
26 05 19 16-0728	EA 20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....	189.84	27.45
26 05 19 16-0729	EA 20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W).....	191.09	27.45
26 05 19 16-0730	EA 20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W).....	223.39	27.45
26 05 19 16-0731	EA 20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W).....	222.72	30.19
26 05 19 16-0732	EA 20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W).....	219.45	30.19
26 05 19 16-0733	EA 20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W).....	222.41	30.19
26 05 19 16-0734	EA 30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W).....	277.12	33.76
26 05 19 16-0735	EA 30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W).....	277.05	33.76
26 05 19 16-0736	EA 30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W).....	288.19	33.76
26 05 19 16-0737	EA 30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....	286.43	37.06
26 05 19 16-0738	EA 30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W).....	288.72	37.06
26 05 19 16-0739	EA 30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W).....	286.30	37.06
26 05 19 16-0740	EA 60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W).....	431.07	43.92
26 05 19 16-0741	EA 60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W).....	417.43	43.92
26 05 19 16-0742	EA 60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W).....	409.30	43.92
26 05 19 16-0743	EA 60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....	445.83	48.86
26 05 19 16-0744	EA 60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W).....	457.69	48.86
26 05 19 16-0745	EA 60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W).....	458.56	48.86
26 05 19 16-0746	EA 100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W).....	572.15	54.90
26 05 19 16-0747	EA 100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W).....	587.80	54.90
26 05 19 16-0748	EA 100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W).....	635.54	60.39
26 05 19 16-0749	EA 100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W).....	614.05	60.39

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0750	EA	100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W)	621.38	60.39
26 05 19 16-0751 Accessories (26 05 19 16-0667)				
26 05 19 16-0752	EA	1/2" Straight Steel Cord Connector	39.27	9.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 05 19 16-0753	EA	1/2" Straight Nylon Cord Connector	24.22	6.86
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 05 19 16-0754	EA	1/2" 90 Degree Steel Cord Connector	45.42	11.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 05 19 16-0755	EA	1/2" 90 Degree Nylon Cord Connector	29.57	9.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 05 19 16-0756	EA	1/2" Straight Steel Cord Connector With Strain Relief Mesh	44.90	11.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 05 19 16-0757	EA	1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh	74.78	13.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 19 16-0758	EA	1/2" Straight Nylon Cord Connector With Strain Relief Mesh	29.17	9.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 05 19 16-0759	EA	1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh	47.33	11.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 05 19 16-0760	EA	3/4" Straight Steel Cord Connector	40.75	9.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 05 19 16-0761	EA	3/4" Straight Nylon Cord Connector	24.95	6.86
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 05 19 16-0762	EA	3/4" 90 Degree Steel Cord Connector	50.03	11.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 05 19 16-0763	EA	3/4" 90 Degree Nylon Cord Connector	31.87	9.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 05 19 16-0764	EA	3/4" Straight Steel Cord Connector With Strain Relief Mesh	51.02	13.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 19 16-0765	EA	3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh	60.53	16.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.61	
26 05 19 16-0766	EA	3/4" Straight Nylon Cord Connector With Strain Relief Mesh	35.30	11.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 05 19 16-0767	EA	3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh	42.59	13.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 19 16-0768	EA	1" Straight Steel Cord Connector	50.21	9.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 05 19 16-0769	EA	1" Straight Nylon Cord Connector	29.69	6.86
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 05 19 16-0770	EA	1" 90 Degree Steel Cord Connector	56.28	11.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 05 19 16-0771	EA	1" 90 Degree Nylon Cord Connector	35.00	9.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 05 19 16-0772	EA	1" Straight Steel Cord Connector With Strain Relief Mesh	60.96	13.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 19 16-0773	EA	1" 90 Degree Steel Cord Connector With Strain Relief Mesh	67.09	16.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.61	
26 05 19 16-0774	EA	1" Straight Nylon Cord Connector With Strain Relief Mesh	40.34	11.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 05 19 16-0775	EA	1" 90 Degree Nylon Cord Connector With Strain Relief Mesh	46.86	13.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 19 23 Manufactured Wiring Assemblies (26 05 19)				
26 05 19 23-0001		Festoon Cable Systems Complete System (26 05 19 23)		
26 05 19 23-0002 Components (26 05 19 23-0001)				
26 05 19 23-0003	LF	20' C Channel Type Track, Galvanized Steel Festoon Cable System Components	12.40	5.49
26 05 19 23-0004	EA	Channel Track Hanger, Plated Steel Festoon Cable System Components	49.24	20.13
26 05 19 23-0005	EA	Channel Track Joint Clamp Assembly Festoon Cable System Components	40.47	20.13
26 05 19 23-0006	EA	End Stop For Channel Track Festoon Cable System Components	10.31	4.58
26 05 19 23-0007	EA	End Clamp And Cable Saddle Assembly With Steel Saddle, Festoon Cable System	51.57	22.88
26 05 19 23-0008	EA	Cable Supplying Trolley, Steel Saddle With Stainless Steel Ball Bearing Wheel, Festoon Cable	46.35	1.83
26 05 19 23-0009	EA	Towing Trolley Assembly With Steel Saddle With Stainless Steel Ball Bearing Wheel, Festoon Cable	53.09	1.83
26 05 19 23-0010	EA	J-Box With 2 Terminal Blocks And Bracket Festoon Cable System Components	306.35	114.37
26 05 19 23-0011	EA	Watertight Connector For Flat Cable Festoon Cable System Components	28.02	9.16
26 05 19 23-0012 Cable (26 05 19 23-0001)				
26 05 19 23-0013	LF	12/c #16 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	6.33	1.83
26 05 19 23-0014	LF	12/c #14 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	6.83	1.83
26 05 19 23-0015	LF	8/c #16 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	5.82	1.83
26 05 19 23-0016	LF	8/c #14 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	5.86	1.83
26 05 19 23-0017	LF	7/c #12 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	6.39	1.83
26 05 19 23-0018	LF	4/c #14 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	4.85	1.83
26 05 19 23-0019	LF	4/c #12 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	5.12	1.83
26 05 19 23-0020 Complete Systems (26 05 19 23-0001)				



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 23-0021 EA Festoon System, 80' Long, Complete With 7/c #12 And 4/c #14, Wet Environment.....	5,124.78	1,829.93
Note: Includes 10 each cable trolleys with steel saddle, stainless steel wheels, 1 each J-box with terminal strips and brackets, 80 LF C type track, 20' sections, 9 each hangars, 3 each joints, 2 each end stop, 1 each end clamp with steel saddle, 1 each towing trolley with steel saddle, 2 each watertight connectors for 4/c #14, 2 each watertight connectors for 7/c #12, 80 LF each type cable as listed.		
26 05 23 Control-Voltage Electrical Power Cables (26 05)		
26 05 23 00-0001 Cable For Sound System (26 05 23)		
26 05 23 00-0002 Shielded Conductors (26 05 23 00-0001)		
Note: One pair, stranded or solid, copper, PVC jacketed, sizes as indicated on tasks.		
26 05 23 00-0003 MLF 1 Pair #20 AWG Sound System, Placed In Conduit, Shielded.....	742.07	334.59
26 05 23 00-0004 MLF 1 Pair #14 AWG Sound System, Placed In Conduit, Shielded.....	1,123.22	334.59
26 05 23 00-0005 MLF 3 Conductor, #16 AWG Sound System, Placed In Conduit, Shielded	952.29	198.30
26 05 23 00-0006 MLF 6 Conductor, #18 AWG Sound System, Placed In Conduit, Shielded	999.83	202.76
26 05 23 00-0007 Cable For HVAC System Controls (26 05 23)		
26 05 23 00-0008 Low Voltage Thermostat Cable To 300 Volts (26 05 23 00-0007)		
Note: For surface or conduit installation.		
26 05 23 00-0009 MLF #20/2 Conductor, Low Volt Thermostat Cable	342.48	106.65
26 05 23 00-0010 MLF #20/3 Conductor, Low Volt Thermostat Cable	386.11	112.34
26 05 23 00-0011 MLF #20/4 Conductor, Low Volt Thermostat Cable	416.92	118.78
26 05 23 00-0012 MLF #20/5 Conductor, Low Volt Thermostat Cable	489.38	123.80
26 05 23 00-0013 MLF #20/6 Conductor, Low Volt Thermostat Cable	512.03	129.65
26 05 23 00-0014 MLF #20/7 Conductor, Low Volt Thermostat Cable	560.36	135.04
26 05 23 00-0015 MLF #20/8 Conductor, Low Volt Thermostat Cable	602.77	140.45
26 05 23 00-0016 MLF #20/9 Conductor, Low Volt Thermostat Cable	651.08	146.05
26 05 23 00-0017 MLF #20/10 Conductor, Low Volt Thermostat Cable	696.98	150.43
26 05 23 00-0018 MLF #18/2 Conductor, Low Volt Thermostat Cable	367.16	106.65
26 05 23 00-0019 MLF #18/3 Conductor, Low Volt Thermostat Cable	430.13	112.34
26 05 23 00-0020 MLF #18/4 Conductor, Low Volt Thermostat Cable	486.76	118.78
26 05 23 00-0021 MLF #18/5 Conductor, Low Volt Thermostat Cable	518.21	123.80
26 05 23 00-0022 MLF #18/6 Conductor, Low Volt Thermostat Cable	569.95	129.65
26 05 23 00-0023 MLF #18/7 Conductor, Low Volt Thermostat Cable	586.95	135.04
26 05 23 00-0024 MLF #18/8 Conductor, Low Volt Thermostat Cable	643.35	140.45
26 05 23 00-0025 MLF #18/9 Conductor, Low Volt Thermostat Cable	748.45	146.05
26 05 23 00-0026 MLF #18/10 Conductor, Low Volt Thermostat Cable	817.08	150.43
26 05 26 Grounding And Bonding For Electrical Systems (26 05)		
26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)		
26 05 26 00-0002 Single Conductor (26 05 26 00-0001)		
26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor	445.67	172.68
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor	580.84	172.68
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor	716.71	208.00
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor	969.69	208.00
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor	1,287.93	251.18
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor	2,000.96	251.18
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor	2,309.39	302.19
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor	2,706.73	302.19
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor	3,770.61	380.68
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor	4,637.51	380.68
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor	4,934.37	506.27
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor	6,311.81	506.27
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor	6,341.95	584.76
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor	8,507.22	584.76
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor	11,587.53	722.12
26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor	808.95	235.47
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor	868.64	235.47
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor	1,107.24	235.47
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor	1,263.27	408.16
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor	1,696.49	408.16
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor	2,381.15	408.16
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor	2,870.54	714.27
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor	3,494.78	714.27
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor	4,084.70	714.27
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor	4,851.20	714.27
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor	5,709.27	934.05
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor	6,884.62	934.05
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor	8,005.69	934.05
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor	9,403.30	1,452.09

26 Electrical**26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor	12,238.70	1,452.09
26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor.....	445.67	172.68
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor.....	580.84	172.68
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor.....	716.71	208.00
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor.....	969.69	208.00
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor.....	1,287.93	251.18
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor.....	2,000.96	251.18
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor.....	2,706.73	302.19
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor.....	4,934.37	400.30
26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor.....	503.16	208.00
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor.....	550.22	208.00
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor.....	622.98	251.18
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor.....	770.43	251.18
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor.....	880.03	302.19
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor.....	1,007.85	302.19
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor.....	1,148.65	380.68
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor.....	1,316.51	380.68
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor.....	1,568.92	506.27
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor.....	1,752.02	506.27
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor.....	2,063.87	584.76
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor.....	2,331.14	584.76
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor.....	2,748.20	722.12
26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor.....	503.16	208.00
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor.....	550.22	208.00
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor.....	622.98	251.18
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor.....	770.43	251.18
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor.....	848.35	400.30
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor.....	1,007.85	400.30
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor.....	1,070.19	380.68
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor.....	1,158.51	380.68
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor.....	1,568.92	506.27
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor.....	1,752.02	506.27
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor.....	2,063.87	584.76
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor.....	2,331.14	584.76
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor.....	2,748.20	722.12
26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.03	0.63
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.23	0.69
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.64	0.79
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.67	0.81
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.79	0.85
26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079 EA 100 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	102.34	22.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 05 26 00-0080 EA 225 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	175.16	27.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 05 26 00-0081 EA 225 Amp, Copper Flexible Braid Jumper Strap, 18" Length.....	223.31	27.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 05 26 00-0082 EA 225 Amp, Copper Flexible Braid Jumper Strap, 24" Length.....	270.81	27.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 05 26 00-0083 EA 400 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	235.50	29.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.59	
26 05 26 00-0084 EA 400 Amp, Copper Flexible Braid Jumper Strap, 18" Length.....	304.77	29.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.59	
26 05 26 00-0085 EA 400 Amp, Copper Flexible Braid Jumper Strap, 24" Length.....	364.96	29.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.59	
26 05 26 00-0086 EA 600 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	305.72	37.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.64	
26 05 26 00-0087 EA 800 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	367.70	45.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 05 26 00-0088 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper - Metallic Conduit.....	138.50	50.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper - Metallic Conduit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.63 35.19	50.32
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper - Metallic Conduit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	248.14 41.59	77.77
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper - Metallic Conduit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	364.84 50.83	77.77
26 05 26 00-0093 Ground Rods (26 05 26)		
26 05 26 00-0094 Copper-Clad Ground Rods (26 05 26 00-0093)		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods	82.87	68.62
26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods	87.05	68.62
26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods	103.92	68.62
26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods	97.88	68.62
26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods	103.10	68.62
26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods	124.19	68.62
26 05 26 00-0101 Copper Grounding Shaft (26 05 26 00-0093)		
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	198.45	68.62
26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	243.36	68.62
26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	359.47	68.62
26 05 26 00-0105 Ground Access Wells (26 05 26 00-0093)		
26 05 26 00-0106 Precast Ground Access Wells (26 05 26 00-0105)		
26 05 26 00-0107 EA 8" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	177.92	
26 05 26 00-0108 EA 10" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	185.73	
26 05 26 00-0109 EA 12" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	499.45	
26 05 26 00-0110 EA 18" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	507.27	
26 05 26 00-0111 Polyvinyl Chloride (PVC) Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0112 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	420.68	
26 05 26 00-0113 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	495.05	
26 05 26 00-0114 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	923.31	
26 05 26 00-0115 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	401.90	
26 05 26 00-0116 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	294.48	
26 05 26 00-0117 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	885.26	
26 05 26 00-0118 EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	223.46	
26 05 26 00-0119 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	238.98	
26 05 26 00-0120 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	252.57	
26 05 26 00-0121 EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	170.91	
26 05 26 00-0122 EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	254.12	
26 05 26 00-0123 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	451.06	
26 05 26 00-0124 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	600.57	
26 05 26 00-0125 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	362.06	
26 05 26 00-0126 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	527.84	
26 05 26 00-0127 EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	559.86	
26 05 26 00-0128 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	681.97	
26 05 26 00-0129 EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	299.73	
26 05 26 00-0130 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	526.82	
26 05 26 00-0131 EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	567.33	
26 05 26 00-0132 Polymer Concrete Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0133 EA 12" x 12" x 12" Polymer Concrete Ground Access Well	317.93	
26 05 26 00-0134 EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well	347.55	
26 05 26 00-0135 EA 12" x 12" x 18" Polymer Concrete Ground Access Well	349.51	

26 Electrical**26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0136 EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well	382.05	
26 05 26 00-0137 EA 12" x 12" x 24" Polymer Concrete Ground Access Well	382.26	
26 05 26 00-0138 EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well	418.00	
26 05 26 00-0139 EA 13" x 24" x 18" Polymer Concrete Ground Access Well	505.43	
26 05 26 00-0140 EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well	553.98	
26 05 26 00-0141 High Density Polyethylene (HDPE) Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0142 EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well	122.67	
Note: With cover.		
26 05 26 00-0143 EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well	169.19	
Note: With cover.		
26 05 26 00-0144 Ground Rod Clamps And Fittings (26 05 26)		
26 05 26 00-0145 Bronze Ground Rod Clamp (26 05 26 00-0144)		
26 05 26 00-0146 EA 1/2" Bronze Ground Rod Clamp	19.65	10.34
26 05 26 00-0147 EA 5/8" Bronze Ground Rod Clamp	20.70	10.34
26 05 26 00-0148 EA 3/4" Bronze Ground Rod Clamp	22.20	10.34
26 05 26 00-0149 Bronze Pipe Clamps (26 05 26 00-0144)		
26 05 26 00-0150 EA 1/2" To 1" Bronze Pipe Ground Clamps	24.51	17.20
26 05 26 00-0151 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe	31.07	20.58
26 05 26 00-0152 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe	45.60	24.06
26 05 26 00-0153 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe	55.92	30.92
26 05 26 00-0154 EA 4" To 6" Bronze Ground Clamps For Pipe	85.35	44.65
26 05 26 00-0155 Grounding Fittings (26 05 26 00-0144)		
26 05 26 00-0156 Embedded Fittings (26 05 26 00-0155)		
26 05 26 00-0157 EA Ground Insert With 2 - 3/8 x 16 Holes #2-250 MCM Cable Range, Embedded	132.49	
26 05 26 00-0158 EA Ground Insert With 4 - 3/8 x 16 Holes #2-250 MCM Cable Range, Embedded	142.03	
26 05 26 00-0159 EA Ground Insert With 4 - 3/8 x 16 Holes 250-500 MCM Cable Range, Embedded	158.97	
26 05 26 00-0160 EA #8 - 1 AWG, Copper To Aluminum, Grounding Wire Splice	122.67	
26 05 26 00-0161 EA 1/0 - 3/0 AWG, Copper To Aluminum, Grounding Wire Splice	146.93	
26 05 26 00-0162 EA 4/0 - 300 MCM, Copper To Aluminum, Grounding Wire Splice	172.56	
26 05 26 00-0163 EA 350 MCM And Up, Copper To Aluminum, Grounding Wire Splice	195.01	
26 05 26 00-0164 Ground Rod Receptacle (26 05 26 00-0155)		
26 05 26 00-0165 EA 1/2" Ground Rod Receptacle	287.56	95.15
26 05 26 00-0166 EA 5/8" Ground Rod Receptacle	301.43	97.84
26 05 26 00-0167 EA 3/4" Ground Rod Receptacle	315.57	100.50
26 05 26 00-0168 Ground Kits For Circuit Breaker Panels (26 05 26 00-0155)		
26 05 26 00-0169 EA 14-8 AWG Copper Ground Kit	63.74	22.88
26 05 26 00-0170 EA 12-8 AWG Aluminum Ground Kit	58.52	22.88
26 05 26 00-0171 EA 14-4 AWG Copper Ground Kit	71.76	22.88
26 05 26 00-0172 EA 12-4 AWG Aluminum Ground Kit	67.46	22.88
26 05 26 00-0173 Insulated Grounding Bars (26 05 26 00-0144)		
26 05 26 00-0174 EA Insulated Ground Bar 1/2" x 4" x 10"	278.48	22.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.17	
26 05 26 00-0175 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20"	293.99	22.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.17	
26 05 26 00-0176 Ground Conductor Bonding (26 05 26)		
26 05 26 00-0177 Ground Conductor Bonding (26 05 26 00-0176)		
26 05 26 00-0178 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld (26 05 26 00-0177)		
26 05 26 00-0179 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	112.83	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0180 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	121.97	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0181 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	131.13	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0182 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	186.02	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0183 Tee, Wye Or Cross Cadweld (26 05 26 00-0177)		
26 05 26 00-0184 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross	126.55	
Note: Includes molds, materials and all necessary tools to make connections.		



Electrical		26
Common Work Results For Electrical		26 05
Grounding And Bonding For Electrical Systems		26 05 26

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0185	EA	#4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross Note: Includes molds, materials and all necessary tools to make connections.	144.85	
26 05 26 00-0186	EA	1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross Note: Includes molds, materials and all necessary tools to make connections.	176.88	
26 05 26 00-0187	EA	250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross Note: Includes molds, materials and all necessary tools to make connections.	213.47	
26 05 26 00-0188		Grounding Equipment (26 05 26)		
26 05 26 00-0189		Special Grounding Equipment (26 05 26 00-0188)		
26 05 26 00-0190		Ground Reels And Ground Bus (26 05 26 00-0189)		
26 05 26 00-0191	EA	Ground Reel With 50' Of Galvanized Steel Cable	690.76	
26 05 26 00-0192		Copper Bars (26 05 26 00-0189)		
26 05 26 00-0193	LF	1/4" x 2" Copper Bar	39.25	
26 05 26 00-0194		Phenolic Insulators (26 05 26 00-0189)		
26 05 26 00-0195	EA	2" x 2" x 1" Long Phenolic Insulators For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.50 5.49	
26 05 26 00-0196		Grounding Studs (26 05 26 00-0189)		
26 05 26 00-0197	EA	Ball Grounding Stud..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73 8.20	
26 05 26 00-0198		Equipment Ground Bar Kits (26 05 26 00-0189)		
26 05 26 00-0199	EA	Switch Rating 30 Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.09 5.49	
26 05 26 00-0200	EA	Switch Rating 60 Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.90 6.04	
26 05 26 00-0201	EA	Switch Rating 100 Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.30 6.86	
26 05 26 00-0202	EA	Switch Rating 200 Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.59 8.24	
26 05 26 00-0203		Panelboard Ground Bar Kits (26 05 26 00-0189)		
26 05 26 00-0204	EA	Panelboard Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	119.18 6.86	6.86
26 05 26 00-0205		Circuit Breaker Ground Bar Kits (26 05 26 00-0189)		
26 05 26 00-0206	EA	3 Circuit, Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.52 4.12	4.12
26 05 26 00-0207	EA	4 Circuit, Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.02 4.12	4.12
26 05 26 00-0208	EA	7 Circuit, Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.85 4.12	4.12
26 05 26 00-0209	EA	12 Circuit, Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.17 4.67	4.67
26 05 26 00-0210	EA	20 Circuit, Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.17 5.22	5.21
26 05 26 00-0211	EA	24 Circuit, Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.49 5.77	5.76
26 05 26 00-0212	EA	30 Circuit, Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.55 6.59	6.58
26 05 26 00-0213	EA	54 Circuit, Ground Bar Kit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.71 7.69	7.69
26 05 26 00-0214	EA	24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.26 5.77	5.76
26 05 26 00-0215	EA	30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.65 6.59	6.58
26 05 26 00-0216	EA	54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.97 7.69	7.69
26 05 29		Hangers And Supports For Electrical Systems (26 05)		
26 05 29 00-0001		Metal Framing Channel And Fittings (26 05 29)		
26 05 29 00-0002		Metal Framing Channel (26 05 29 00-0001) Note: Excludes fasteners and accessories.		
26 05 29 00-0003		14 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0004		14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0005	EA	Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	15.02	5.02
26 05 29 00-0006	EA	>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	15.83	5.02

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0007	LF	>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	7.09	1.88
26 05 29 00-0008		14 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0009	EA	Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	24.80	5.02
26 05 29 00-0010	EA	Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	27.20	5.02
26 05 29 00-0011	EA	>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	35.38	5.02
26 05 29 00-0012	EA	>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	40.19	5.02
26 05 29 00-0013	LF	>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	16.86	1.89
26 05 29 00-0014	LF	>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	19.26	1.89
26 05 29 00-0015		14 Gauge, 316 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0016	EA	Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	35.17	5.02
26 05 29 00-0017	EA	>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	56.13	5.02
26 05 29 00-0018	LF	>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	27.23	1.89
26 05 29 00-0019		12 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0020		12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0021	EA	Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	15.83	5.02
26 05 29 00-0022	EA	Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	15.56	5.02
26 05 29 00-0023	EA	Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	15.38	5.02
26 05 29 00-0024	EA	>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	17.44	5.02
26 05 29 00-0025	EA	>1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	16.90	5.02
26 05 29 00-0026	EA	>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	16.54	5.02
26 05 29 00-0027	LF	>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	7.90	1.88
26 05 29 00-0028	LF	>2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	7.63	1.88
26 05 29 00-0029	LF	>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	7.45	1.88
26 05 29 00-0030		12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0031	EA	Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	28.00	5.02
26 05 29 00-0032	EA	Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	32.14	5.02
26 05 29 00-0033	EA	>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	41.78	5.02
26 05 29 00-0034	EA	>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	50.07	5.02
26 05 29 00-0035	LF	>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	20.07	1.88
26 05 29 00-0036	LF	>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	24.21	1.88
26 05 29 00-0037		Metal Framing Channel Fittings (26 05 29 00-0001)		
26 05 29 00-0038		Unistrut Channel Closure Strips And Caps (26 05 29 00-0037)		
26 05 29 00-0039		Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0040	LF	Steel Raceway Closure Strip, Unistrut Channel Fittings.....	3.67	0.46
26 05 29 00-0041	EA	Steel End Cap, Unistrut Channel Fittings.....	10.25	4.59
26 05 29 00-0042		Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0043	EA	Stainless Steel End Cap For Unistrut Channel.....	15.36	4.59
26 05 29 00-0044		Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0045		Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)		
26 05 29 00-0046	EA	2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	3.90	
26 05 29 00-0047	EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	3.88	
26 05 29 00-0048	EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	4.59	
26 05 29 00-0049		Stainless Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)		
26 05 29 00-0050	EA	2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	11.86	
26 05 29 00-0051	EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	17.50	
26 05 29 00-0052	EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	22.27	
26 05 29 00-0053		90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0054		Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)		
26 05 29 00-0055	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	3.79	
26 05 29 00-0056	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	3.27	
26 05 29 00-0057	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	5.22	
26 05 29 00-0058	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	5.16	
26 05 29 00-0059		Stainless Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)		
26 05 29 00-0060	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	6.92	
26 05 29 00-0061	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	8.57	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0062	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	7.32	
26 05 29 00-0063	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	10.27	
26 05 29 00-0064	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	9.41	
26 05 29 00-0065	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	17.11	
26 05 29 00-0066	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	9.88	
26 05 29 00-0067	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	14.19	
26 05 29 00-0068		60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0069		Steel 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0070	EA	2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting	7.21	
26 05 29 00-0071		U-Connector, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0072		Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0073	EA	3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting	2.93	
26 05 29 00-0074	EA	5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting	3.20	
26 05 29 00-0075		Stainless Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0076	EA	5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting	14.09	
26 05 29 00-0077		Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0078		Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)		
26 05 29 00-0079	EA	3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting	7.39	
26 05 29 00-0080		Stainless Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)		
26 05 29 00-0081	EA	3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	27.12	
26 05 29 00-0082		Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0037)		
		Note: Includes hex screw and nut.		
26 05 29 00-0083		Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)		
		Note: Includes hex screw and nut.		
26 05 29 00-0084	EA	1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	3.52	1.37
26 05 29 00-0085	EA	3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	3.53	1.37
26 05 29 00-0086	EA	1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	3.59	1.37
26 05 29 00-0087	EA	1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	4.58	1.84
26 05 29 00-0088	EA	1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	4.90	1.84
26 05 29 00-0089	EA	2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	4.93	1.84
26 05 29 00-0090	EA	2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	6.08	2.29
26 05 29 00-0091	EA	3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	6.36	2.29
26 05 29 00-0092	EA	3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	6.63	2.29
26 05 29 00-0093	EA	4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	6.72	2.29
26 05 29 00-0094		304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)		
		Note: Includes hex screw and nut.		
26 05 29 00-0095	EA	1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	5.78	1.37
26 05 29 00-0096	EA	3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.40	1.37
26 05 29 00-0097	EA	1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.03	1.37
26 05 29 00-0098	EA	1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.77	1.84
26 05 29 00-0099	EA	1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.52	1.84
26 05 29 00-0100	EA	2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.97	1.84
26 05 29 00-0101	EA	2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.21	2.29
26 05 29 00-0102	EA	3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.77	2.29
26 05 29 00-0103	EA	3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	15.44	2.29
26 05 29 00-0104	EA	4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	17.90	2.29
26 05 29 00-0105		316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)		
		Note: Includes hex screw and nut.		
26 05 29 00-0106	EA	1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.16	1.37
26 05 29 00-0107	EA	3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.05	1.37
26 05 29 00-0108	EA	1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.30	1.37
26 05 29 00-0109	EA	1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.89	1.84
26 05 29 00-0110	EA	1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.95	1.84
26 05 29 00-0111	EA	2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.10	1.84
26 05 29 00-0112	EA	2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.39	2.29
26 05 29 00-0113	EA	3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	15.18	2.29
26 05 29 00-0114	EA	3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.81	2.29
26 05 29 00-0115	EA	4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	24.25	2.29

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0116			Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0117			Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)		
26 05 29 00-0118	EA		Set Screw Beam Clamp, Steel Unistrut Channel Fitting	24.80	8.37
26 05 29 00-0119	EA		"C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings	18.60	8.37
26 05 29 00-0120	EA		"U" Bolt Beam Clamp, Steel Unistrut Channel Fitting	24.18	8.37
26 05 29 00-0121			304 Stainless Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)		
26 05 29 00-0122	EA		"U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting	35.36	8.37
26 05 29 00-0123			Square Washers For Unistrut Channel (26 05 29 00-0037)		
26 05 29 00-0124			Steel Square Washers For Unistrut Channel (26 05 29 00-0123)		
26 05 29 00-0125	EA		1/2" Bolt Size, Steel, Square Washer For Unistrut Channel.....	2.82	
26 05 29 00-0126			Stainless Steel Square Washers For Unistrut Channel (26 05 29 00-0123)		
26 05 29 00-0127	EA		1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel	3.53	
26 05 29 00-0128	EA		1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel	4.39	
26 05 29 00-0129			Strut Braces, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0130	EA		16" Diagonal Steel Bar Brace For Unistrut Channel	19.26	
26 05 29 00-0131			Trolley Hangers, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0132	EA		Steel Trolley Track Hanger For Unistrut Channel	24.18	
26 05 29 00-0133			Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0037)		
			Note: Includes hex bolt.		
26 05 29 00-0134			Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0133)		
			Note: Includes hex bolt.		
26 05 29 00-0135	EA		1/4-20, Steel Lock Nut With Spring For Unistrut Channel	5.66	
26 05 29 00-0136	EA		3/8-16, Steel Lock Nut With Spring For Unistrut Channel	6.04	
26 05 29 00-0137	EA		1/2-13, Steel Lock Nut With Spring For Unistrut Channel	6.32	
26 05 29 00-0138	EA		5/8-11, Steel Lock Nut With Spring For Unistrut Channel	7.85	
26 05 29 00-0139			Stainless Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0133)		
			Note: Includes hex bolt.		
26 05 29 00-0140	EA		1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	10.28	
26 05 29 00-0141	EA		3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	10.86	
26 05 29 00-0142	EA		1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	14.89	
26 05 29 00-0143	EA		5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	24.63	
26 05 29 00-0144			Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0037)		
			Note: Includes hex bolt.		
26 05 29 00-0145			Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0144)		
			Note: Includes hex bolt.		
26 05 29 00-0146	EA		1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	5.67	
26 05 29 00-0147	EA		3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	6.09	
26 05 29 00-0148	EA		1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	6.34	
26 05 29 00-0149	EA		5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	8.30	
26 05 29 00-0150			Stainless Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0144)		
			Note: Includes hex bolt.		
26 05 29 00-0151	EA		1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	7.70	
26 05 29 00-0152	EA		3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	9.04	
26 05 29 00-0153	EA		1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	9.75	
26 05 29 00-0154	EA		5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	24.02	
26 05 29 00-0155			Mounting Assemblies (26 05 29)		
26 05 29 00-0156			Galvanized Steel Mounting Assemblies (26 05 29 00-0155)		
26 05 29 00-0157			Galvanized Steel Back Plate (26 05 29 00-0156)		
26 05 29 00-0158	EA		1/4" x 4' x 4", Galvanized Steel Back Plate, Painted.....	266.48	54.90
26 05 29 00-0159	EA		3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	69.44	18.30
26 05 29 00-0160	EA		3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	175.34	45.75
26 05 29 00-0161			Aluminum Mounting Assemblies (26 05 29 00-0155)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0162			Aluminum Back Plate (26 05 29 00-0161)		
26 05 29 00-0163	EA		3/16" x 2' x 2' Aluminum Back Plate.....	264.58	68.62
26 05 29 00-0164	EA		3/16" x 4' x 4' Aluminum Back Plate.....	700.62	68.62
26 05 29 00-0165			Supports (26 05 29)		
26 05 29 00-0166			One Hole Steel Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0167	EA		1/2", One Hole Steel Conduit Strap 3.28		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.91	
26 05 29 00-0168	EA		3/4", One Hole Steel Conduit Strap 3.32		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.62	
			For >500, Deduct	-0.92	
26 05 29 00-0169	EA		1", One Hole Steel Conduit Strap 3.52		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.63	
			For >500, Deduct	-0.94	
26 05 29 00-0170	EA		1-1/4", One Hole Steel Conduit Strap 3.67		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.17	
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.64	
			For >500, Deduct	-0.95	
26 05 29 00-0171	EA		1-1/2", One Hole Steel Conduit Strap 3.77		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.17	
			For >100 To 250, Deduct	-0.34	
			For >250 To 500, Deduct	-0.65	
			For >500, Deduct	-0.96	
26 05 29 00-0172	EA		2", One Hole Steel Conduit Strap 4.39		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.03	
26 05 29 00-0173	EA		2-1/2", One Hole Steel Conduit Strap 5.01		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.74	
			For >500, Deduct	-1.09	
26 05 29 00-0174	EA		3", One Hole Steel Conduit Strap 5.22		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.76	
			For >500, Deduct	-1.11	
26 05 29 00-0175	EA		3-1/2", One Hole Steel Conduit Strap 6.26		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.84	
			For >500, Deduct	-1.21	
26 05 29 00-0176	EA		4", One Hole Steel Conduit Strap 7.08		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.90	
			For >500, Deduct	-1.29	
26 05 29 00-0177			One Hole Iron Conduit Straps (26 05 29 00-0165)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0178	EA	1/2"	One Hole Iron Conduit Strap 3.38		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.62	
			For >500, Deduct	-0.92	
26 05 29 00-0179	EA	3/4"	One Hole Iron Conduit Strap 3.48		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.63	
			For >500, Deduct	-0.93	
26 05 29 00-0180	EA	1"	One Hole Iron Conduit Strap 3.65		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.64	
			For >500, Deduct	-0.95	
26 05 29 00-0181	EA	1-1/4"	One Hole Iron Conduit Strap 4.08		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.67	
			For >500, Deduct	-0.99	
26 05 29 00-0182	EA	1-1/2"	One Hole Iron Conduit Strap 4.25		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.69	
			For >500, Deduct	-1.01	
26 05 29 00-0183	EA	2"	One Hole Iron Conduit Strap 5.34		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.77	
			For >500, Deduct	-1.12	
26 05 29 00-0184	EA	2-1/2"	One Hole Iron Conduit Strap 7.68		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-0.94	
			For >500, Deduct	-1.35	
26 05 29 00-0185	EA	3"	One Hole Iron Conduit Strap 9.63		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.63	
			For >250 To 500, Deduct	-1.09	
			For >500, Deduct	-1.55	
26 05 29 00-0186	EA	3-1/2"	One Hole Iron Conduit Strap 12.48		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-1.30	
			For >500, Deduct	-1.83	
26 05 29 00-0187	EA	4"	One Hole Iron Conduit Strap 23.90		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.67	
			For >100 To 250, Deduct	-1.34	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.98	
26 05 29 00-0188	EA	5"	One Hole Iron Conduit Strap 30.03		
			For Work In Restricted Working Space, Add	0.88	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.82	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.62	
			For >500, Deduct	-3.59	

26 05 29 00-0189 Two Hole Steel Conduit Straps (26 05 29 00-0185)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0190	EA	1/2"	Two Hole Steel Conduit Strap 3.75 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.18 For >100 To 250, Deduct -0.35 For >250 To 500, Deduct -0.69 For >500, Deduct -1.04		
26 05 29 00-0191	EA	3/4"	Two Hole Steel Conduit Strap 3.82 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.18 For >100 To 250, Deduct -0.36 For >250 To 500, Deduct -0.70 For >500, Deduct -1.04		
26 05 29 00-0192	EA	1"	Two Hole Steel Conduit Strap 3.85 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.18 For >100 To 250, Deduct -0.36 For >250 To 500, Deduct -0.70 For >500, Deduct -1.05		
26 05 29 00-0193	EA	1-1/4"	Two Hole Steel Conduit Strap 3.90 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.18 For >100 To 250, Deduct -0.36 For >250 To 500, Deduct -0.71 For >500, Deduct -1.05		
26 05 29 00-0194	EA	1-1/2"	Two Hole Steel Conduit Strap 3.94 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.18 For >100 To 250, Deduct -0.36 For >250 To 500, Deduct -0.71 For >500, Deduct -1.05		
26 05 29 00-0195	EA	2"	Two Hole Steel Conduit Strap 4.02 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.18 For >100 To 250, Deduct -0.37 For >250 To 500, Deduct -0.71 For >500, Deduct -1.06		
26 05 29 00-0196	EA	2-1/2"	Two Hole Steel Conduit Strap 4.49 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.19 For >100 To 250, Deduct -0.39 For >250 To 500, Deduct -0.75 For >500, Deduct -1.11		
26 05 29 00-0197	EA	3"	Two Hole Steel Conduit Strap 4.59 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.20 For >100 To 250, Deduct -0.39 For >250 To 500, Deduct -0.76 For >500, Deduct -1.12		
26 05 29 00-0198	EA	3-1/2"	Two Hole Steel Conduit Strap 4.96 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.21 For >100 To 250, Deduct -0.41 For >250 To 500, Deduct -0.78 For >500, Deduct -1.16		
26 05 29 00-0199	EA	4"	Two Hole Steel Conduit Strap 5.21 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.21 For >100 To 250, Deduct -0.43 For >250 To 500, Deduct -0.80 For >500, Deduct -1.18		
26 05 29 00-0200	EA	5"	Two Hole Steel Conduit Strap 5.55 For Work In Restricted Working Space, Add 0.99 For Installation On Concrete (Includes Drilling And Fastener), Add 1.03 For >50 To 100, Deduct -0.22 For >100 To 250, Deduct -0.44 For >250 To 500, Deduct -0.83 For >500, Deduct -1.22		

26 05 29 00-0201 Clamp Back Spacers (26 05 29 00-0165)

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0202	EA		1/2" Conduit, Clamp Back Spacer.....	2.81	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-0.13	
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.50	
			For >500, Deduct	-0.74	
26 05 29 00-0203	EA		3/4" Conduit, Clamp Back Spacer.....	2.98	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-0.13	
			For >100 To 250, Deduct	-0.26	
			For >250 To 500, Deduct	-0.51	
			For >500, Deduct	-0.75	
26 05 29 00-0204	EA		1" Conduit, Clamp Back Spacer.....	3.13	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-0.14	
			For >100 To 250, Deduct	-0.27	
			For >250 To 500, Deduct	-0.52	
			For >500, Deduct	-0.77	
26 05 29 00-0205	EA		1-1/4" Conduit, Clamp Back Spacer	3.73	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-0.15	
			For >100 To 250, Deduct	-0.30	
			For >250 To 500, Deduct	-0.56	
			For >500, Deduct	-0.83	
26 05 29 00-0206	EA		1-1/2" Conduit, Clamp Back Spacer	4.22	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.60	
			For >500, Deduct	-0.88	
26 05 29 00-0207	EA		2" Conduit, Clamp Back Spacer.....	4.73	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.64	
			For >500, Deduct	-0.93	
26 05 29 00-0208	EA		2-1/2" Conduit, Clamp Back Spacer	6.80	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.80	
			For >500, Deduct	-1.14	
26 05 29 00-0209	EA		3" Conduit, Clamp Back Spacer.....	9.28	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.98	
			For >500, Deduct	-1.38	
26 05 29 00-0210	EA		3-1/2" Conduit, Clamp Back Spacer	11.68	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-0.35	
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.16	
			For >500, Deduct	-1.62	
26 05 29 00-0211	EA		4" Conduit, Clamp Back Spacer.....	22.96	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-0.63	
			For >100 To 250, Deduct	-1.26	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.75	
26 05 29 00-0212	EA		5" Conduit, Clamp Back Spacer.....	42.01	
			For Work In Restricted Working Space, Add	0.68	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.67	
			For >50 To 100, Deduct	-1.11	
			For >100 To 250, Deduct	-2.21	
			For >250 To 500, Deduct	-3.44	
			For >500, Deduct	-4.66	
26 05 29 00-0213			Conduit Clips (26 05 29 00-0165)		
			Note: Push in or clip.		
26 05 29 00-0214	EA		1/2" Conduit Clip.....	3.57	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.63	
			For >500, Deduct	-0.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0215	EA		3/4" Conduit Clip.....	3.57	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.63	
			For >500, Deduct	-0.94	
26 05 29 00-0216	EA		1" Conduit Clip.....	3.52	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.63	
			For >500, Deduct	-0.94	
26 05 29 00-0217	EA		1-1/4" Conduit Clip.....	3.64	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.83	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.64	
			For >500, Deduct	-0.95	
26 05 29 00-0218 Bolt And Nut Conduit Clips (26 05 29 00-0165)					
26 05 29 00-0219	EA		3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	4.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.02	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.79	
			For >500, Deduct	-1.18	
26 05 29 00-0220	EA		1" Bolt And Nut Conduit Clip (Minerallac 2B).....	4.56	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.02	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.80	
			For >500, Deduct	-1.19	
26 05 29 00-0221	EA		1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	4.86	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.07	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.26	
26 05 29 00-0222	EA		1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	4.93	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.07	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.86	
			For >500, Deduct	-1.27	
26 05 29 00-0223	EA		2" Bolt And Nut Conduit Clip (Minerallac 5B).....	5.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.07	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.89	
			For >500, Deduct	-1.32	
26 05 29 00-0224	EA		2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	5.83	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.13	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.95	
			For >500, Deduct	-1.41	
26 05 29 00-0225	EA		3" Bolt And Nut Conduit Clip (Minerallac 7B).....	6.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.13	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.98	
			For >500, Deduct	-1.45	
26 05 29 00-0226	EA		4" Bolt And Nut Conduit Clip (Minerallac 9B).....	10.65	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.25	
			For >50 To 100, Deduct	-0.38	
			For >100 To 250, Deduct	-0.76	
			For >250 To 500, Deduct	-1.37	
			For >500, Deduct	-1.98	
26 05 29 00-0227 Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0165)					
Note: Bat wing.					
26 05 29 00-0228	EA		1/2", Conduit Hanger From Flange, Wire Or Rod.....	2.59	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.65	
			For >50 To 100, Deduct	-0.12	
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.47	
			For >500, Deduct	-0.70	
26 05 29 00-0229	EA		3/4", Conduit Hanger From Flange, Wire Or Rod.....	2.62	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.65	
			For >50 To 100, Deduct	-0.12	
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.47	
			For >500, Deduct	-0.70	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0230	EA		1", Conduit Hanger From Flange, Wire Or Rod <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2.72 0.65 -0.12 -0.25 -0.48 -0.71	
26 05 29 00-0231	EA		1-1/4", Conduit Hanger From Flange, Wire Or Rod <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2.95 0.65 -0.13 -0.26 -0.50 -0.73	
26 05 29 00-0232 Beam Flange Clamps (26 05 29 00-0165)					
Note: For threaded rod, nut not required.					
26 05 29 00-0233	EA		1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	3.60 -0.15 -0.29 -0.56 -0.82	
26 05 29 00-0234	EA		5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	3.54 -0.15 -0.29 -0.55 -0.81	
26 05 29 00-0235	EA		9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	3.91 -0.15 -0.31 -0.58 -0.85	
26 05 29 00-0236 T-Bar Support Clips (26 05 29 00-0165)					
26 05 29 00-0237	EA		9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	6.18 -0.27 -0.54 -1.04 -1.53	
26 05 29 00-0238	EA		15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	5.90 -0.26 -0.52 -1.02 -1.51	
26 05 29 00-0239	EA		15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2.12 -0.08 -0.16 -0.30 -0.44	
26 05 29 00-0240	EA		24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.98 -0.45 -0.89 -1.43 -1.96	
26 05 29 00-0241 Switch And Outlet Box Type Supports (26 05 29 00-0165)					
26 05 29 00-0242	EA		1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	4.25 -0.15 -0.30 -0.55 -0.79	
26 05 29 00-0243	EA		1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	3.65 -0.14 -0.27 -0.50 -0.73	
26 05 29 00-0244	EA		Flush, Riveted Switch And Outlet Box Support (Caddy MFO) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	4.16 -0.15 -0.30 -0.54 -0.78	
26 05 29 00-0245	EA		Snap On, Switch And Outlet Box Support (Caddy MSF) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2.80 -0.12 -0.23 -0.44 -0.65	
26 05 29 00-0246	EA		1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2.91 -0.12 -0.24 -0.45 -0.66	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0247			Lighting Fixture Hanger (26 05 29 00-0165) Note: For existing or owner furnished fixtures.		
26 05 29 00-0248	EA		Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515)	4.24	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.78	
			For >500, Deduct	-1.16	
26 05 29 00-0249	PR		Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517)	13.07	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.44	
			For >500, Deduct	-2.04	
26 05 29 00-0250	PR		Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520)	17.71	
			For >50 To 100, Deduct	-0.53	
			For >100 To 250, Deduct	-1.07	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.50	
26 05 29 00-0251			Rigid Steel Conduit Clamps For Unistrut Channel (26 05 29 00-0165)		
26 05 29 00-0252	EA		1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	3.52	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.90	
			For Work In Restricted Working Space, Add	0.83	
26 05 29 00-0253	EA		3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	3.53	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.90	
			For Work In Restricted Working Space, Add	0.83	
26 05 29 00-0254	EA		1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	3.59	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.91	
			For Work In Restricted Working Space, Add	0.83	
26 05 29 00-0255	EA		1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.58	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.80	
			For >500, Deduct	-1.19	
			For Work In Restricted Working Space, Add	1.10	
26 05 29 00-0256	EA		1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.90	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.22	
			For Work In Restricted Working Space, Add	1.10	
26 05 29 00-0257	EA		2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.93	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.23	
			For Work In Restricted Working Space, Add	1.10	
26 05 29 00-0258	EA		2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.07	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.52	
			For Work In Restricted Working Space, Add	1.37	
26 05 29 00-0259	EA		3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.35	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-1.05	
			For >500, Deduct	-1.55	
			For Work In Restricted Working Space, Add	1.37	
26 05 29 00-0260	EA		3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.62	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.07	
			For >500, Deduct	-1.58	
			For Work In Restricted Working Space, Add	1.37	
26 05 29 00-0261	EA		4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.71	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.08	
			For >500, Deduct	-1.59	
			For Work In Restricted Working Space, Add	1.37	
26 05 29 00-0262			Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel (26 05 29 00-0165)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0263	EA	1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	3.72	
		For >50 To 100, Deduct	-0.16	
		For >100 To 250, Deduct	-0.32	
		For >250 To 500, Deduct	-0.62	
		For >500, Deduct	-0.92	
		For Work In Restricted Working Space, Add	0.83	
26 05 29 00-0264	EA	3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	3.70	
		For >50 To 100, Deduct	-0.16	
		For >100 To 250, Deduct	-0.32	
		For >250 To 500, Deduct	-0.62	
		For >500, Deduct	-0.92	
		For Work In Restricted Working Space, Add	0.83	
26 05 29 00-0265	EA	1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	3.66	
		For >50 To 100, Deduct	-0.16	
		For >100 To 250, Deduct	-0.32	
		For >250 To 500, Deduct	-0.62	
		For >500, Deduct	-0.92	
		For Work In Restricted Working Space, Add	0.83	
26 05 29 00-0266	EA	1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	4.83	
		For >50 To 100, Deduct	-0.21	
		For >100 To 250, Deduct	-0.42	
		For >250 To 500, Deduct	-0.82	
		For >500, Deduct	-1.22	
		For Work In Restricted Working Space, Add	1.10	
26 05 29 00-0267	EA	1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.38	
		For >50 To 100, Deduct	-0.23	
		For >100 To 250, Deduct	-0.45	
		For >250 To 500, Deduct	-0.86	
		For >500, Deduct	-1.27	
		For Work In Restricted Working Space, Add	1.10	
26 05 29 00-0268	EA	2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.41	
		For >50 To 100, Deduct	-0.23	
		For >100 To 250, Deduct	-0.45	
		For >250 To 500, Deduct	-0.86	
		For >500, Deduct	-1.27	
		For Work In Restricted Working Space, Add	1.10	
26 05 29 00-0269 "J" Type Conduit Hangers (26 05 29 00-0165)				
26 05 29 00-0270	EA	1/2", "J" Type Conduit Hanger (Unistrut J1205).....	16.14	
		For >50 To 100, Deduct	-0.56	
		For >100 To 250, Deduct	-1.13	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.89	
		For Work In Restricted Working Space, Add	1.92	
26 05 29 00-0271	EA	3/4", "J" Type Conduit Hanger (Unistrut J1207).....	16.31	
		For >50 To 100, Deduct	-0.57	
		For >100 To 250, Deduct	-1.14	
		For >250 To 500, Deduct	-2.02	
		For >500, Deduct	-2.91	
		For Work In Restricted Working Space, Add	1.92	
26 05 29 00-0272	EA	1", "J" Type Conduit Hanger (Unistrut J1210).....	17.38	
		For >50 To 100, Deduct	-0.62	
		For >100 To 250, Deduct	-1.23	
		For >250 To 500, Deduct	-2.22	
		For >500, Deduct	-3.20	
		For Work In Restricted Working Space, Add	2.19	
26 05 29 00-0273	EA	1-1/4", "J" Type Conduit Hanger (Unistrut J1212).....	17.56	
		For >50 To 100, Deduct	-0.62	
		For >100 To 250, Deduct	-1.24	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-3.22	
		For Work In Restricted Working Space, Add	2.19	
26 05 29 00-0274	EA	1-1/2", "J" Type Conduit Hanger (Unistrut J1215).....	18.61	
		For >50 To 100, Deduct	-0.67	
		For >100 To 250, Deduct	-1.34	
		For >250 To 500, Deduct	-2.43	
		For >500, Deduct	-3.51	
		For Work In Restricted Working Space, Add	2.47	
26 05 29 00-0275	EA	2", "J" Type Conduit Hanger (Unistrut J1220).....	19.30	
		For >50 To 100, Deduct	-0.69	
		For >100 To 250, Deduct	-1.38	
		For >250 To 500, Deduct	-2.48	
		For >500, Deduct	-3.58	
		For Work In Restricted Working Space, Add	2.47	
26 05 29 00-0276	EA	2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	30.10	
		For >50 To 100, Deduct	-0.98	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-3.40	
		For >500, Deduct	-4.84	
		For Work In Restricted Working Space, Add	2.75	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0277	EA	3", "J" Type Conduit Hanger (Unistrut J1230).....	32.06		
		For >50 To 100, Deduct	-1.05		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-3.66		
		For >500, Deduct	-5.22		
		For Work In Restricted Working Space, Add	3.02		
26 05 29 00-0278	EA	3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	34.54		
		For >50 To 100, Deduct	-1.14		
		For >100 To 250, Deduct	-2.28		
		For >250 To 500, Deduct	-3.96		
		For >500, Deduct	-5.65		
		For Work In Restricted Working Space, Add	3.29		
26 05 29 00-0279	EA	4", "J" Type Conduit Hanger (Unistrut J1240).....	45.27		
		For >50 To 100, Deduct	-1.41		
		For >100 To 250, Deduct	-2.81		
		For >250 To 500, Deduct	-4.77		
		For >500, Deduct	-6.72		
		For Work In Restricted Working Space, Add	3.29		
26 05 29 00-0280	EA	5", "J" Type Conduit Hanger (Unistrut J1250).....	49.70		
		For >50 To 100, Deduct	-1.54		
		For >100 To 250, Deduct	-3.08		
		For >250 To 500, Deduct	-5.21		
		For >500, Deduct	-7.35		
		For Work In Restricted Working Space, Add	3.57		
26 05 29 00-0281	EA	6", "J" Type Conduit Hanger (Unistrut J1260).....	69.52		
		For >50 To 100, Deduct	-2.08		
		For >100 To 250, Deduct	-4.16		
		For >250 To 500, Deduct	-6.93		
		For >500, Deduct	-9.70		
		For Work In Restricted Working Space, Add	4.12		
26 05 29 00-0282 Between Studs Box Brackets (26 05 29 00-0165)					
26 05 29 00-0283	EA	16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	5.91		
		For >50 To 100, Deduct	-0.22		
		For >100 To 250, Deduct	-0.43		
		For >250 To 500, Deduct	-0.79		
		For >500, Deduct	-1.14		
		For Work In Restricted Working Space, Add	0.83		
26 05 29 00-0284	EA	24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	7.00		
		For >50 To 100, Deduct	-0.24		
		For >100 To 250, Deduct	-0.49		
		For >250 To 500, Deduct	-0.87		
		For >500, Deduct	-1.25		
		For Work In Restricted Working Space, Add	0.83		
26 05 29 00-0285 Hangers And Brackets (26 05 29 00-0165)					
26 05 29 00-0286	EA	Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	2.24		
		For >50 To 100, Deduct	-0.10		
		For >100 To 250, Deduct	-0.20		
		For >250 To 500, Deduct	-0.40		
		For >500, Deduct	-0.59		
26 05 29 00-0287	EA	Angle Bracket Only With 1/4" Hole (Caddy AB)	2.18		
		For >50 To 100, Deduct	-0.10		
		For >100 To 250, Deduct	-0.20		
		For >250 To 500, Deduct	-0.39		
		For >500, Deduct	-0.58		
26 05 29 00-0288	EA	Offset Bracket Only With 1/4" Hole (Caddy AO)	2.18		
		For >50 To 100, Deduct	-0.10		
		For >100 To 250, Deduct	-0.20		
		For >250 To 500, Deduct	-0.39		
		For >500, Deduct	-0.58		
26 05 29 00-0289	EA	Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....	2.84		
		For >50 To 100, Deduct	-0.12		
		For >100 To 250, Deduct	-0.23		
		For >250 To 500, Deduct	-0.44		
		For >500, Deduct	-0.65		
26 05 29 00-0290	EA	Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....	2.85		
		For >50 To 100, Deduct	-0.12		
		For >100 To 250, Deduct	-0.23		
		For >250 To 500, Deduct	-0.44		
		For >500, Deduct	-0.65		
26 05 29 00-0291	EA	Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....	2.78		
		For >50 To 100, Deduct	-0.12		
		For >100 To 250, Deduct	-0.23		
		For >250 To 500, Deduct	-0.44		
		For >500, Deduct	-0.64		
26 05 29 00-0292	EA	Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....	2.84		
		For >50 To 100, Deduct	-0.12		
		For >100 To 250, Deduct	-0.23		
		For >250 To 500, Deduct	-0.44		
		For >500, Deduct	-0.65		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0293 EA Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....	2.85	
For >50 To 100, Deduct	-0.12	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.44	
For >500, Deduct	-0.65	
26 05 29 00-0294 Clips And Accessories (26 05 29 00-0165)		
26 05 29 00-0295 EA 1/2" Diameter Center, Bridle Ring (Caddy 2BR)	1.50	
For >50 To 100, Deduct	-0.07	
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.26	
For >500, Deduct	-0.38	
26 05 29 00-0296 EA 3/4" Diameter Center, Bridle Ring (Caddy 2BR12)	1.53	
For >50 To 100, Deduct	-0.07	
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.26	
For >500, Deduct	-0.38	
26 05 29 00-0297 EA 1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20)	1.63	
For >50 To 100, Deduct	-0.07	
For >100 To 250, Deduct	-0.14	
For >250 To 500, Deduct	-0.26	
For >500, Deduct	-0.39	
26 05 29 00-0298 EA 2" Diameter Center, Bridle Ring (Caddy 2BR32)	1.83	
For >50 To 100, Deduct	-0.07	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.28	
For >500, Deduct	-0.41	
26 05 29 00-0299 Wire Ties (26 05 29 00-0165)		
Note: Per hundred (C).		
26 05 29 00-0300 C 3" Length, 18 LB Tensile Strength, Nylon Cable Ties	12.67	
For UV Black, Add	0.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.86	
26 05 29 00-0301 C 4" Length, 18 LB Tensile Strength, Nylon Cable Ties	12.80	
For UV Black, Add	0.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.86	
26 05 29 00-0302 C 4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties	12.88	
For UV Black, Add	0.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.86	
26 05 29 00-0303 C 5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties	12.92	
For UV Black, Add	0.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.86	
26 05 29 00-0304 C 6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties	13.38	
For UV Black, Add	0.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.99	
26 05 29 00-0305 C 8" Length, 18 LB Tensile Strength, Nylon Cable Ties	16.48	
For UV Black, Add	0.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13	
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties	16.04	
For UV Black, Add	0.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.86	
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties	16.52	
For UV Black, Add	0.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.99	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties	17.00	
For UV Black, Add	0.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties	26.41	
For UV Black, Add	2.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.37	
26 05 29 00-0310 C 11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties	27.79	
For UV Black, Add	2.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.37	
26 05 29 00-0311 C 7" Length, 50 LB Tensile Strength, Nylon Cable Ties	17.96	
For UV Black, Add	1.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13	
26 05 29 00-0312 C 8" Length, 50 LB Tensile Strength, Nylon Cable Ties	16.75	
For UV Black, Add	0.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13	
26 05 29 00-0313 C 11" Length, 50 LB Tensile Strength, Nylon Cable Ties	26.79	
For UV Black, Add	2.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.37	
26 05 29 00-0314 C 14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties	31.06	
For UV Black, Add	2.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.58	
26 05 29 00-0315 C 8" Length, 120 LB Tensile Strength, Nylon Cable Ties	30.95	
For UV Black, Add	3.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13	
26 05 29 00-0316 C 11" Length, 120 LB Tensile Strength, Nylon Cable Ties	33.96	
For UV Black, Add	3.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0317 C 15" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	41.82	
For UV Black, Add	4.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.58	
26 05 29 00-0318 C 17" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	61.69	
For UV Black, Add	7.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.82	
26 05 29 00-0319 C 17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	59.60	
For UV Black, Add	7.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.82	
26 05 29 00-0320 C 21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	73.56	
For UV Black, Add	9.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.00	
26 05 29 00-0321 C 30" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	85.78	
For UV Black, Add	10.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.19	
26 05 29 00-0322 C 46" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	119.40	
For UV Black, Add	15.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 29 00-0323 C 3/4" x 3/4" Self Adhesive Tie Mounts.....	30.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.59	
26 05 29 00-0324 C 1.1" x 1.1" Tie Mounts With Screw.....	59.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.18	
26 05 29 00-0325 EA 6" Length x 1/2" Width, Velcro Grip Cable Tie.....	1.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.14	
26 05 29 00-0326 EA 8" Length x 1/2" Width, Velcro Grip Cable Tie.....	1.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.11	
26 05 29 00-0327 EA 12" Length x 1/2" Width, Velcro Grip Cable Tie.....	1.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.11	
26 05 29 00-0328 EA 15" Length x 3/4" Width, Velcro Grip Cable Tie.....	2.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.11	
26 05 29 00-0329 EA 180" Length x 3/4" Width, Velcro Grip Cable Tie Roll.....	59.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.86	
26 05 29 00-0330 Fastening Devices For Wireway And Conduit (26 05 29)		
Note: Bolts include drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports.		
26 05 29 00-0331 Toggle Bolts (26 05 29 00-0330)		
Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332 EA 1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	7.18	
For >50 To 100, Deduct	-0.68	
For >100 To 250, Deduct	-1.36	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-3.40	
26 05 29 00-0333 EA 1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	7.37	
For >50 To 100, Deduct	-0.70	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-3.48	
26 05 29 00-0334 EA 3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	7.80	
For >50 To 100, Deduct	-0.72	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.52	
For >500, Deduct	-3.59	
26 05 29 00-0335 EA 3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	8.00	
For >50 To 100, Deduct	-0.74	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.68	
26 05 29 00-0336 EA 1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	8.18	
For >50 To 100, Deduct	-0.76	
For >100 To 250, Deduct	-1.51	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.76	
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	9.37	
For >50 To 100, Deduct	-0.80	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.95	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	9.77	
For >50 To 100, Deduct	-0.82	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.85	
For >500, Deduct	-4.06	
26 05 29 00-0339 Machine Screws (26 05 29 00-0330)		
Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.11	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.72	
For >500, Deduct	-1.02	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.15	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.72	
For >500, Deduct	-1.03	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.70	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.90	
For >500, Deduct	-1.29	
26 05 29 00-0343 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	2.84	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.91	
For >500, Deduct	-1.30	
26 05 29 00-0344 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.51	
For >50 To 100, Deduct	-0.32	
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.10	
For >500, Deduct	-1.57	
26 05 29 00-0345 Hex Lag Bolts With Lag Shield Expansion Anchors (26 05 29 00-0330)		
Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	3.56	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-0.97	
For >500, Deduct	-1.38	
26 05 29 00-0347 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	3.51	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-0.96	
For >500, Deduct	-1.37	
26 05 29 00-0348 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	5.05	
For >50 To 100, Deduct	-0.36	
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.22	
For >500, Deduct	-1.73	
26 05 29 00-0349 EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	6.49	
For >50 To 100, Deduct	-0.43	
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-2.07	
26 05 29 00-0350 Hanger Lag Bolts With Hex Nuts (26 05 29 00-0330)		
Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0351 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.64	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.76	
For >500, Deduct	-1.08	
26 05 29 00-0352 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	2.68	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.76	
For >500, Deduct	-1.08	
26 05 29 00-0353 EA 3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.20	
For >50 To 100, Deduct	-0.25	
For >100 To 250, Deduct	-0.50	
For >250 To 500, Deduct	-0.86	
For >500, Deduct	-1.23	
26 05 29 00-0354 Hollow Wall Screw Anchors (26 05 29 00-0330)		
26 05 29 00-0355 EA 6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	1.55	
For >50 To 100, Deduct	-0.13	
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.45	
For >500, Deduct	-0.64	
26 05 29 00-0356 EA 6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.60	
For >50 To 100, Deduct	-0.13	
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.46	
For >500, Deduct	-0.65	
26 05 29 00-0357 EA 6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.69	
For >50 To 100, Deduct	-0.13	
For >100 To 250, Deduct	-0.27	
For >250 To 500, Deduct	-0.46	
For >500, Deduct	-0.66	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0358	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.16	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.55	
			For >500, Deduct	-0.78	
26 05 29 00-0359	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.27	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.56	
			For >500, Deduct	-0.80	
26 05 29 00-0360	EA		10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.31	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.56	
			For >500, Deduct	-0.80	
26 05 29 00-0361	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.33	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.57	
			For >500, Deduct	-0.80	
26 05 29 00-0362	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.50	
			For >50 To 100, Deduct	-0.17	
			For >100 To 250, Deduct	-0.34	
			For >250 To 500, Deduct	-0.58	
			For >500, Deduct	-0.82	
26 05 29 00-0363	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.56	
			For >50 To 100, Deduct	-0.17	
			For >100 To 250, Deduct	-0.34	
			For >250 To 500, Deduct	-0.58	
			For >500, Deduct	-0.82	
26 05 29 00-0364			Lead Screw Anchors (26 05 29 00-0330)		
			Note: Includes screw.		
26 05 29 00-0365	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw	3.56	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.13	
			For >500, Deduct	-1.60	
26 05 29 00-0366	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	4.25	
			For >50 To 100, Deduct	-0.38	
			For >100 To 250, Deduct	-0.75	
			For >250 To 500, Deduct	-1.31	
			For >500, Deduct	-1.87	
26 05 29 00-0367	EA		#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	5.79	
			For >50 To 100, Deduct	-0.49	
			For >100 To 250, Deduct	-0.98	
			For >250 To 500, Deduct	-1.70	
			For >500, Deduct	-2.42	
26 05 29 00-0368			Acoustical T-Bar Clips (26 05 29 00-0330)		
			Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0369	EA		1/2" Conduit, Push-In Acoustical T-Bar Clip	5.10	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-2.07	
26 05 29 00-0370	EA		3/4" Conduit, Push-In Acoustical T-Bar Clip	5.34	
			For >50 To 100, Deduct	-0.44	
			For >100 To 250, Deduct	-0.88	
			For >250 To 500, Deduct	-1.53	
			For >500, Deduct	-2.17	
26 05 29 00-0371	EA		1" Conduit, Push-In Acoustical T-Bar Clip	5.77	
			For >50 To 100, Deduct	-0.47	
			For >100 To 250, Deduct	-0.94	
			For >250 To 500, Deduct	-1.62	
			For >500, Deduct	-2.31	
26 05 29 00-0372			Threaded Rod, Accessories And Attachments (26 05 29)		
26 05 29 00-0373			Threaded Rod And Rod Accessories (26 05 29 00-0372)		
26 05 29 00-0374			Carbon Steel Threaded Rod (26 05 29 00-0373)		
			Note: Includes plain finish.		
26 05 29 00-0375	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.56	0.58
			For Galvanized, Add	0.57	
			For Zinc Coated, Add	0.40	
26 05 29 00-0376	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.46	0.61
			For Galvanized, Add	0.90	
			For Zinc Coated, Add	0.64	
26 05 29 00-0377	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.75	0.63
			For Galvanized, Add	1.40	
			For Zinc Coated, Add	0.99	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0378 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod <i>For Galvanized, Add</i> <i>For Zinc Coated, Add</i>	7.65 2.54 1.81	0.65
26 05 29 00-0379 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod <i>For Galvanized, Add</i> <i>For Zinc Coated, Add</i>	8.32 2.79 1.99	0.67
26 05 29 00-0380 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod <i>For Galvanized, Add</i> <i>For Zinc Coated, Add</i>	11.32 3.92 2.79	0.76
26 05 29 00-0381 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod <i>For Galvanized, Add</i> <i>For Zinc Coated, Add</i>	14.05 4.94 3.52	0.84
26 05 29 00-0382 Threaded Rod Couplings (26 05 29 00-0373)		
26 05 29 00-0383 EA 3/8" Diameter, Threaded Rod Coupling Nut.....	7.51	
26 05 29 00-0384 EA 1/2" Diameter, Threaded Rod Coupling Nut.....	8.54	
26 05 29 00-0385 EA 5/8" Diameter, Threaded Rod Coupling Nut.....	10.76	
26 05 29 00-0386 EA 3/4" Diameter, Threaded Rod Coupling Nut.....	13.21	
26 05 29 00-0387 EA 7/8" Diameter, Threaded Rod Coupling Nut.....	19.67	
26 05 29 00-0388 EA 1" Diameter, Threaded Rod Coupling Nut.....	23.34	
26 05 29 00-0389 EA 1-1/8" Diameter, Threaded Rod Coupling Nut.....	45.50	
26 05 29 00-0390 Flat Washers (26 05 29 00-0373)		
26 05 29 00-0391 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	0.64 0.03	0.23
26 05 29 00-0392 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	0.84 0.07	0.23
26 05 29 00-0393 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	1.11 0.13	0.23
26 05 29 00-0394 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	1.37 0.19	0.46
26 05 29 00-0395 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	1.55 0.22	0.46
26 05 29 00-0396 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	1.84 0.27	0.46
26 05 29 00-0397 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	2.07 0.31	0.46
26 05 29 00-0398 Malleable Iron Eye Sockets (26 05 29 00-0373)		
Note: Type 16.		
26 05 29 00-0399 EA 3/8" Rod Size, Malleable Iron Eye Socket.....	7.13	
26 05 29 00-0400 EA 1/2" Rod Size, Malleable Iron Eye Socket.....	8.46	
26 05 29 00-0401 EA 5/8" Rod Size, Malleable Iron Eye Socket.....	14.19	
26 05 29 00-0402 EA 3/4" Rod Size, Malleable Iron Eye Socket.....	19.94	
26 05 29 00-0403 EA 7/8" Rod Size, Malleable Iron Eye Socket.....	21.31	
26 05 29 00-0404 Hex Nuts (26 05 29 00-0373)		
26 05 29 00-0405 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	0.62 0.03	0.23
26 05 29 00-0406 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	0.80 0.06	0.23
26 05 29 00-0407 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	1.12 0.13	0.23
26 05 29 00-0408 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	1.32 0.17	0.46
26 05 29 00-0409 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	1.97 0.33	0.46
26 05 29 00-0410 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	2.53 0.44	0.46
26 05 29 00-0411 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	4.19 0.84	0.46
26 05 29 00-0412 Forged Steel Turnbuckles (26 05 29 00-0373)		
Note: Type 13.		
26 05 29 00-0413 EA 3/8" Thread Diameter, Forged Steel Turnbuckle Body	17.96	
26 05 29 00-0414 EA 1/2" Thread Diameter, Forged Steel Turnbuckle Body	21.88	
26 05 29 00-0415 EA 5/8" Thread Diameter, Forged Steel Turnbuckle Body	28.67	
26 05 29 00-0416 EA 3/4" Thread Diameter, Forged Steel Turnbuckle Body	35.17	
26 05 29 00-0417 EA 7/8" Thread Diameter, Forged Steel Turnbuckle Body	81.81	
26 05 29 00-0418 EA 1" Thread Diameter, Forged Steel Turnbuckle Body	56.74	
26 05 29 00-0419 EA 1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	110.18	
26 05 29 00-0420 Attachments (26 05 29 00-0372)		
26 05 29 00-0421 Welded Beam Attachments (26 05 29 00-0420)		
Note: Type 22.		
26 05 29 00-0422 EA 3/8" Rod Size, Welded Beam Attachment.....	33.40	9.15



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0423	EA		1/2" Rod Size, Welded Beam Attachment	35.54	9.61
26 05 29 00-0424	EA		5/8" Rod Size, Welded Beam Attachment	37.78	10.16
26 05 29 00-0425	EA		3/4" Rod Size, Welded Beam Attachment	46.80	10.79
26 05 29 00-0426	EA		7/8" Rod Size, Welded Beam Attachment	55.23	11.43
26 05 29 00-0427	EA		1" Rod Size, Welded Beam Attachment	75.52	13.09
26 05 29 00-0428	EA		1-1/8" Rod Size, Welded Beam Attachment	103.91	13.73
26 05 29 00-0429			C-Clamp Style Beam Clamps (26 05 29 00-0420) Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0430	EA		3/8" Rod Size, C-Clamp Style Beam Clamp	13.30	6.87
26 05 29 00-0431	EA		1/2" Rod Size, C-Clamp Style Beam Clamp	15.41	7.33
26 05 29 00-0432	EA		5/8" Rod Size, C-Clamp Style Beam Clamp	17.25	7.86
26 05 29 00-0433	EA		3/4" Rod Size, C-Clamp Style Beam Clamp	21.31	8.46
26 05 29 00-0434	EA		7/8" Rod Size, C-Clamp Style Beam Clamp	29.28	9.16
26 05 29 00-0435			Bottom Mount I-Beam Clamps (26 05 29 00-0420) Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0436	EA		3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	31.48	9.16
26 05 29 00-0437	EA		1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	44.44	10.00
26 05 29 00-0438	EA		5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	61.75	11.00
26 05 29 00-0439	EA		3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	73.42	12.21
26 05 29 00-0440	EA		1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	169.41	13.75
26 05 29 00-0441			Steel U-Bolts (26 05 29 00-0420) Note: Type 24. Includes plate and nuts.		
26 05 29 00-0442	EA		1/2" Pipe Size, Zinc Plated Steel, U-Bolt	10.78	5.50
26 05 29 00-0443	EA		3/4" Pipe Size, Zinc Plated Steel, U-Bolt	11.61	5.79
26 05 29 00-0444	EA		1" Pipe Size, Zinc Plated Steel, U-Bolt	12.44	6.11
26 05 29 00-0445	EA		1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	13.88	6.47
26 05 29 00-0446	EA		1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	14.43	6.87
26 05 29 00-0447	EA		2" Pipe Size, Zinc Plated Steel, U-Bolt	15.43	7.33
26 05 29 00-0448	EA		2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	20.81	7.86
26 05 29 00-0449	EA		3" Pipe Size, Zinc Plated Steel, U-Bolt	22.84	8.46
26 05 29 00-0450	EA		4" Pipe Size, Zinc Plated Steel, U-Bolt	27.03	9.16
26 05 29 00-0451			Stainless Steel Threaded Rod (26 05 29 00-0372)		
26 05 29 00-0452	LF		1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	2.24	0.46
			For 316 Stainless Steel, Add	0.54	
26 05 29 00-0453	LF		5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	3.28	0.50
			For 316 Stainless Steel, Add	0.92	
26 05 29 00-0454	LF		3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	4.19	0.58
			For 316 Stainless Steel, Add	1.24	
26 05 29 00-0455	LF		7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	5.71	0.59
			For 316 Stainless Steel, Add	1.83	
26 05 29 00-0456	LF		1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.79	0.61
			For 316 Stainless Steel, Add	2.26	
26 05 29 00-0457	LF		5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	10.03	0.62
			For 316 Stainless Steel, Add	3.56	
26 05 29 00-0458	LF		3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	13.92	0.63
			For 316 Stainless Steel, Add	5.13	
26 05 29 00-0459	LF		7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	19.03	0.65
			For 316 Stainless Steel, Add	7.18	
26 05 29 00-0460	LF		1" Diameter, 304/18-8 Stainless Steel Threaded Rod	24.43	0.76
			For 316 Stainless Steel, Add	9.27	
26 05 29 00-0461	LF		1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	51.34	0.91
			For 316 Stainless Steel, Add	20.02	
26 05 29 00-0462			Polyvinyl Chloride (PVC) Coated Supports (26 05 29) Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.		
26 05 29 00-0463			Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0462)		
26 05 29 00-0464			Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
26 05 29 00-0465	EA		1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	53.54	18.30
26 05 29 00-0466	EA		3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	58.15	19.95
26 05 29 00-0467	EA		1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	61.77	21.95
26 05 29 00-0468	EA		1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	74.89	24.43
26 05 29 00-0469	EA		1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	86.83	27.45
26 05 29 00-0470	EA		2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	104.92	30.19
26 05 29 00-0471	EA		2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	114.78	32.94
26 05 29 00-0472	EA		3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	126.65	35.68
26 05 29 00-0473	EA		3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	133.44	38.43
26 05 29 00-0474	EA		4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	144.39	41.17
26 05 29 00-0475			Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
26 05 29 00-0476	EA		1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	57.99	18.30

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0477 EA 3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	61.17	19.95
26 05 29 00-0478 EA 1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	70.80	21.95
26 05 29 00-0479 EA 1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	78.10	24.43
26 05 29 00-0480 EA 1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	88.07	27.45
26 05 29 00-0481 EA 2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	102.80	30.19
26 05 29 00-0482 EA 2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	118.81	32.94
26 05 29 00-0483 EA 3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	131.98	35.68
26 05 29 00-0484 EA 3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	140.15	38.43
26 05 29 00-0485 EA 4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	145.28	41.17
26 05 29 00-0486 Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
26 05 29 00-0487 EA 1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	54.43	18.12
26 05 29 00-0488 EA 3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	58.42	19.76
26 05 29 00-0489 EA 1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	66.31	21.95
26 05 29 00-0490 EA 1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	78.45	24.16
26 05 29 00-0491 EA 1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	103.84	27.45
26 05 29 00-0492 EA 2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	113.80	30.19
26 05 29 00-0493 Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0462)		
26 05 29 00-0494 One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
26 05 29 00-0495 EA 1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	7.24	0.55
26 05 29 00-0496 EA 3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	7.88	0.55
26 05 29 00-0497 EA 1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	11.69	0.55
26 05 29 00-0498 EA 1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	14.26	0.55
26 05 29 00-0499 EA 1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	18.84	0.55
26 05 29 00-0500 EA 2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	28.40	0.55
26 05 29 00-0501 EA 2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	37.90	0.55
26 05 29 00-0502 EA 3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	50.85	0.55
26 05 29 00-0503 EA 3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	90.15	0.55
26 05 29 00-0504 EA 4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	95.82	0.55
26 05 29 00-0505 Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
26 05 29 00-0506 EA 1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	14.28	1.10
26 05 29 00-0507 EA 3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	14.35	1.10
26 05 29 00-0508 EA 1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	14.73	1.10
26 05 29 00-0509 EA 1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	18.65	1.10
26 05 29 00-0510 EA 1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	19.18	1.10
26 05 29 00-0511 EA 2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	22.07	1.10
26 05 29 00-0512 EA 2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	24.87	1.10
26 05 29 00-0513 EA 3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	26.03	1.10
26 05 29 00-0514 EA 3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	27.82	1.10
26 05 29 00-0515 EA 4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	30.22	1.10
26 05 29 00-0516 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)		
26 05 29 00-0517 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)		
26 05 29 00-0518 EA 1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	12.91	1.10
26 05 29 00-0519 EA 3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	15.09	1.10
26 05 29 00-0520 EA 1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	19.10	1.10
26 05 29 00-0521 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	22.41	1.10
26 05 29 00-0522 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	30.16	1.10
26 05 29 00-0523 EA 2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	35.74	1.10
26 05 29 00-0524 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	74.70	1.10
26 05 29 00-0525 EA 3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	102.17	1.10
26 05 29 00-0526 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	179.17	1.10
26 05 29 00-0527 EA 4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	179.17	1.10
26 05 29 00-0528 Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)		
26 05 29 00-0529 Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)		
26 05 29 00-0530 LF 3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	8.93	0.73
26 05 29 00-0531 LF 1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	11.01	0.82
26 05 29 00-0532 Attachments (26 05 29 00-0462)		
26 05 29 00-0533 Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)		
26 05 29 00-0534 EA 1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	15.75	5.50
26 05 29 00-0535 EA 3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	16.23	5.77
26 05 29 00-0536 EA 1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	17.10	6.14
26 05 29 00-0537 EA 1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	18.20	6.50
26 05 29 00-0538 EA 1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	19.39	6.87
26 05 29 00-0539 EA 2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	21.94	7.33
26 05 29 00-0540 EA 2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	32.75	7.88
26 05 29 00-0541 EA 3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	34.28	8.43



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0542	EA		4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	36.47	9.16
26 05 29 00-0543	EA		5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	61.27	10.45
26 05 29 00-0544	EA		6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	76.27	12.09
26 05 29 00-0545			Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)		
26 05 29 00-0546	EA		1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	55.09	18.12
26 05 29 00-0547	EA		5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	65.68	18.12
26 05 29 00-0548	EA		3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	70.05	18.12
26 05 29 00-0549	EA		1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	77.59	19.22
26 05 29 00-0550	EA		1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	91.06	21.95
26 05 29 00-0551			Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532)		
Note: Includes stainless steel nuts and bolts.					
26 05 29 00-0552	EA		1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	16.85	6.04
26 05 29 00-0553	EA		3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	17.79	6.58
26 05 29 00-0554	EA		1" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	19.37	7.13
26 05 29 00-0555	EA		1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	21.86	8.24
26 05 29 00-0556	EA		1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	24.98	9.33
26 05 29 00-0557	EA		2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	27.66	9.88
26 05 29 00-0558	EA		2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	30.58	10.98
26 05 29 00-0559	EA		3" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	36.13	12.07
26 05 29 00-0560	EA		3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	39.35	12.63
26 05 29 00-0561	EA		4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	41.47	13.73
26 05 29 00-0562	EA		5" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	44.49	15.37
26 05 29 00-0563			Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)		
26 05 29 00-0564	LF		Polyvinyl Chloride (PVC) Coated Channel, A12.....	16.59	2.75
26 05 29 00-0565	LF		Polyvinyl Chloride (PVC) Coated Channel, A12A.....	29.10	3.85
26 05 29 00-0566	LF		Polyvinyl Chloride (PVC) Coated Channel, A12P.....	17.66	2.75
26 05 29 00-0567	LF		Polyvinyl Chloride (PVC) Coated Channel, C14.....	13.28	2.75
26 05 29 00-0568	LF		Polyvinyl Chloride (PVC) Coated Channel, C14P.....	13.95	2.75
26 05 29 00-0569			Polymer Concrete Pads (26 05 29)		
Note: Excludes excavation and backfill.					
26 05 29 00-0570			Polymer Concrete, Box Pads (26 05 29 00-0569)		
26 05 29 00-0571	EA		24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	803.31	94.37
26 05 29 00-0572	EA		25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	828.70	94.37
26 05 29 00-0573	EA		40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,062.06	94.37
26 05 29 00-0574	EA		40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,100.75	94.37
26 05 29 00-0575	EA		52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,026.05	94.37
26 05 29 00-0576	EA		44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	1,208.77	94.37
26 05 29 00-0577	EA		40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	1,348.87	94.37
26 05 29 00-0578	EA		52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	1,304.43	117.97
26 05 29 00-0579	EA		74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	1,959.06	117.97
26 05 29 00-0580	EA		93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	2,616.91	117.97
26 05 29 00-0581			Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0582	EA		42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	389.14	50.91
26 05 29 00-0583	EA		48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	458.51	50.91
26 05 29 00-0584	EA		60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	596.33	70.78
26 05 29 00-0585	EA		54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	622.11	70.78
26 05 29 00-0586	EA		57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	884.58	70.78
26 05 29 00-0587	EA		72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	921.06	70.78
26 05 29 00-0588	EA		64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	989.03	70.78
26 05 29 00-0589	EA		72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	989.03	70.78
26 05 29 00-0590	EA		76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,842.96	70.78
26 05 29 00-0591	EA		96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	2,086.61	70.78
26 05 29 00-0592			Polymer Concrete, Electrical Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0593	EA		24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	242.21	50.91
26 05 29 00-0594	EA		24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	260.04	50.91
26 05 29 00-0595	EA		24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	276.29	50.91
26 05 29 00-0596	EA		24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	330.25	50.91
26 05 29 00-0597	EA		40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	306.17	50.91
26 05 29 00-0598	EA		42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	317.52	50.91
26 05 29 00-0599	EA		48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	346.93	50.91
26 05 29 00-0600	EA		48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	364.09	50.91
26 05 29 00-0601	EA		54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	421.40	50.91
26 05 29 00-0602	EA		56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	515.81	50.91
26 05 29 00-0603	EA		64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	758.13	70.78
26 05 29 00-0604	EA		66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	792.64	70.78
26 05 29 00-0605	EA		75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	803.52	70.78
26 05 29 00-0606	EA		90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	876.05	70.78
26 05 29 00-0607	EA		84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,846.23	70.78

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0608	EA	96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad		2,171.19	70.78
26 05 33 Raceway And Boxes For Electrical Systems (26 05)					
26 05 33 13 Conduit For Electrical Systems (26 05 33)					
26 05 33 13-0001		Conduit Assemblies (26 05 33 13) Note: With fittings and wire.			
26 05 33 13-0002		Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001) Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0586 for larger EMT conduit.			
26 05 33 13-0003	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	663.58 175.26 1.10	204.44	
26 05 33 13-0004	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	724.74 190.31 1.65	222.00	
26 05 33 13-0005	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	785.91 205.37 2.19	239.57	
26 05 33 13-0006	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	699.71 182.79 1.64	213.22	
26 05 33 13-0007	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	774.74 200.35 2.47	233.71	
26 05 33 13-0008	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	779.82 197.84 2.87	230.79	
26 05 33 13-0009	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	733.43 188.91 1.10	220.41	
26 05 33 13-0010	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	794.58 203.96 1.65	237.97	
26 05 33 13-0011	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	855.75 219.02	255.54	
26 05 33 13-0012	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	916.92 234.08 2.74	273.11	
26 05 33 13-0013	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	769.55 196.44 1.64	229.19	
26 05 33 13-0014	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	844.58 214.00 2.47	249.69	



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Common Work Results For Electrical		26 05
Raceway And Boxes For Electrical Systems		26 05 33

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0015	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	919.62 231.57 3.29	270.18
26 05 33 13-0016	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	994.66 249.14 4.11	290.68
26 05 33 13-0017	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	953.64 234.08 4.30	273.11
26 05 33 13-0018	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	1,057.60 256.66 5.74	299.46
26 05 33 13-0019	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	949.55 226.55 4.74	264.33
26 05 33 13-0020	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,089.00 254.15 7.12	296.53
26 05 33 13-0021	CLF	1"	Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	827.88 203.36 1.10	237.22
26 05 33 13-0022	CLF	1"	Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	889.03 218.42 1.65	254.79
26 05 33 13-0023	CLF	1"	Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	950.19 233.48	272.35
26 05 33 13-0024	CLF	1"	Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,011.36 248.53 2.74	289.92
26 05 33 13-0025	CLF	1"	Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	864.00 210.89 1.64	246.00
26 05 33 13-0026	CLF	1"	Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	939.03 228.46 2.47	266.50
26 05 33 13-0027	CLF	1"	Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,014.07 246.02 3.29	287.00
26 05 33 13-0028	CLF	1"	Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,089.12 263.59 4.11	307.49

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0029	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,048.08 248.53 4.30	289.92
26 05 33 13-0030	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,183.45 268.61 7.12	313.34
26 05 33 13-0031	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	1,322.90 296.21 9.49	345.54
26 05 33 13-0032 Rigid Galvanized Steel (RGS) Conduit Assemblies (26 05 33 13-0001)				
Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0059 for larger RGS conduit.				
26 05 33 13-0033	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	854.80 199.45 1.10	232.71
26 05 33 13-0034	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	915.95 214.50 1.65	250.27
26 05 33 13-0035	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	890.92 206.98 1.64	241.49
26 05 33 13-0036	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	965.95 224.54 2.47	261.98
26 05 33 13-0037	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	971.03 222.03 2.87	259.05
26 05 33 13-0038	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	935.71 212.70 1.10	248.18
26 05 33 13-0039	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	996.89 227.76 1.65	265.75
26 05 33 13-0040	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,058.04 242.81	283.31
26 05 33 13-0041	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	971.84 220.23 1.64	256.97
26 05 33 13-0042	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,046.87 237.79 2.47	277.46
26 05 33 13-0043	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,121.91 255.36 3.29	297.95
26 05 33 13-0044	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,155.92 257.87 4.30	300.88



Electrical			26
Common Work Results For Electrical			26 05
Raceway And Boxes For Electrical Systems			26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0045	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #8 THWN Conductor Instead Of THHN, Add	1,259.90 280.46 5.74	327.23
26 05 33 13-0046	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #6 THWN Conductor Instead Of THHN, Add	1,151.83 250.34 4.74	292.10
26 05 33 13-0047	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	1,291.29 277.94 7.12	324.30
26 05 33 13-0048	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #12 THWN Conductor Instead Of THHN, Add	1,190.77 254.03 1.65	296.36
26 05 33 13-0049	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add	1,251.93 269.09	313.93
26 05 33 13-0050	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #12 THWN Conductor Instead Of THHN, Add	1,313.08 284.14 2.74	331.49
26 05 33 13-0051	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	1,240.76 264.07 2.47	308.08
26 05 33 13-0052	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #10 THWN Conductor Instead Of THHN, Add	1,315.81 281.63 3.29	328.56
26 05 33 13-0053	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #10 THWN Conductor Instead Of THHN, Add	1,390.84 299.20 4.11	349.06
26 05 33 13-0054	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #8 THWN Conductor Instead Of THHN, Add	1,349.81 284.14 4.30	331.49
26 05 33 13-0055	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	1,485.18 304.22 7.12	354.92
26 05 33 13-0056	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #6 THWN Conductor Instead Of THHN, Add	1,624.62 331.82 9.49	387.12
26 05 33 13-0057			Conduit ^(26 05 33 13) Note: Includes warning tape for underground conduits. Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0058			Conduit Installed Above Grade ^(26 05 33 13-0057) See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0059			Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit ^(26 05 33 13-0058) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0060			Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling ^(26 05 33 13-0059) Note: Includes field bending for conduit up to 1".		
26 05 33 13-0061	LF		1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Installation Above 14', Add	6.10 -0.08 -0.34 -0.50 0.46 1.15 0.69 1.38 0.69	1.84

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0062 LF 3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	6.87	2.00
For >250 To 500, Deduct	-0.09	
For >500 To 1,000, Deduct	-0.39	
For >1,000, Deduct	-0.56	
For Installation In Metal Stud Wall, Add	0.50	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.26	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.75	
For Work In Restricted Working Space, Add	1.51	
For Installation Above 14', Add	0.75	
26 05 33 13-0063 LF 1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	8.71	2.35
For >250 To 500, Deduct	-0.14	
For >500 To 1,000, Deduct	-0.51	
For >1,000, Deduct	-0.72	
For Installation In Metal Stud Wall, Add	0.59	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.46	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.88	
For Work In Restricted Working Space, Add	1.76	
For Installation Above 14', Add	0.88	
26 05 33 13-0064 LF 1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	10.51	2.68
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.62	
For >1,000, Deduct	-0.88	
For Installation In Metal Stud Wall, Add	0.67	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.68	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.01	
For Work In Restricted Working Space, Add	2.01	
For Installation Above 14', Add	1.01	
26 05 33 13-0065 LF 1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	12.20	3.01
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.73	
For >1,000, Deduct	-1.03	
For Installation In Metal Stud Wall, Add	0.75	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.88	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.13	
For Work In Restricted Working Space, Add	2.26	
For Installation Above 14', Add	1.13	
26 05 33 13-0066 LF 2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	15.44	3.68
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.93	
For >1,000, Deduct	-1.31	
For Installation In Metal Stud Wall, Add	0.92	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.30	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.38	
For Work In Restricted Working Space, Add	2.76	
For Installation Above 14', Add	1.38	
26 05 33 13-0067 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	22.90	5.02
For >250 To 500, Deduct	-0.52	
For >500 To 1,000, Deduct	-1.40	
For >1,000, Deduct	-1.98	
For Installation In Metal Stud Wall, Add	1.26	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.14	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.88	
For Work In Restricted Working Space, Add	3.77	
For Installation Above 14', Add	1.88	
26 05 33 13-0068 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	29.90	6.70
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.82	
For >1,000, Deduct	-2.57	
For Installation In Metal Stud Wall, Add	1.67	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.18	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.51	
For Work In Restricted Working Space, Add	5.02	
For Installation Above 14', Add	2.51	
26 05 33 13-0069 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	36.98	8.37
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-2.25	
For >1,000, Deduct	-3.18	
For Installation In Metal Stud Wall, Add	2.09	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.23	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.14	
For Work In Restricted Working Space, Add	6.27	
For Installation Above 14', Add	3.14	
26 05 33 13-0070 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	43.79	10.03
For >250 To 500, Deduct	-0.93	
For >500 To 1,000, Deduct	-2.66	
For >1,000, Deduct	-3.75	
For Installation In Metal Stud Wall, Add	2.51	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.28	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.77	
For Work In Restricted Working Space, Add	7.53	
For Installation Above 14', Add	3.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0071	LF		5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	69.67	12.71
			For >250 To 500, Deduct	-1.89	
			For >500 To 1,000, Deduct	-4.43	
			For >1,000, Deduct	-6.17	
			For Installation In Metal Stud Wall, Add	3.18	
			For Installation In Wood Stud Wall (Includes Drilling), Add	7.95	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.77	
			For Work In Restricted Working Space, Add	9.53	
			For Installation Above 14', Add	4.77	
26 05 33 13-0072	LF		6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	93.41	16.06
			For >250 To 500, Deduct	-2.66	
			For >500 To 1,000, Deduct	-6.00	
			For >1,000, Deduct	-8.34	
			For Installation In Metal Stud Wall, Add	4.02	
			For Installation In Wood Stud Wall (Includes Drilling), Add	10.04	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	6.02	
			For Work In Restricted Working Space, Add	12.05	
			For Installation Above 14', Add	6.02	
26 05 33 13-0073			Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2394 for conduit field bending.		
26 05 33 13-0074	EA		2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	69.05	18.48
			For Work In Restricted Working Space, Add	13.85	
			For Installation Above 14', Add	6.93	
26 05 33 13-0075	EA		2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	98.49	23.08
			For Work In Restricted Working Space, Add	17.31	
			For Installation Above 14', Add	8.66	
26 05 33 13-0076	EA		3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	139.33	31.45
			For Work In Restricted Working Space, Add	23.59	
			For Installation Above 14', Add	11.79	
26 05 33 13-0077	EA		3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	183.59	35.46
			For Work In Restricted Working Space, Add	26.60	
			For Installation Above 14', Add	13.30	
26 05 33 13-0078	EA		4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	224.78	46.18
			For Work In Restricted Working Space, Add	34.62	
			For Installation Above 14', Add	17.31	
26 05 33 13-0079	EA		5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	367.68	75.29
			For Work In Restricted Working Space, Add	56.47	
			For Installation Above 14', Add	28.23	
26 05 33 13-0080	EA		6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	552.75	113.09
			For Work In Restricted Working Space, Add	84.81	
			For Installation Above 14', Add	42.41	
26 05 33 13-0081			Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2394 for conduit field bending.		
26 05 33 13-0082	EA		1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	24.79	8.28
			For Work In Restricted Working Space, Add	6.23	
			For Installation Above 14', Add	3.12	
26 05 33 13-0083	EA		3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	31.12	10.28
			For Work In Restricted Working Space, Add	7.75	
			For Installation Above 14', Add	3.87	
26 05 33 13-0084	EA		1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	39.65	12.63
			For Work In Restricted Working Space, Add	9.45	
			For Installation Above 14', Add	4.72	
26 05 33 13-0085	EA		1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	50.53	14.63
			For Work In Restricted Working Space, Add	10.97	
			For Installation Above 14', Add	5.49	
26 05 33 13-0086	EA		1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	58.61	16.81
			For Work In Restricted Working Space, Add	12.59	
			For Installation Above 14', Add	6.30	
26 05 33 13-0087	EA		2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	69.05	18.48
			For Work In Restricted Working Space, Add	13.85	
			For Installation Above 14', Add	6.93	
26 05 33 13-0088	EA		2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	96.83	23.08
			For Work In Restricted Working Space, Add	17.31	
			For Installation Above 14', Add	8.66	
26 05 33 13-0089	EA		3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	132.88	31.45
			For Work In Restricted Working Space, Add	23.59	
			For Installation Above 14', Add	11.79	
26 05 33 13-0090	EA		3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	174.52	35.46
			For Work In Restricted Working Space, Add	26.60	
			For Installation Above 14', Add	13.30	
26 05 33 13-0091	EA		4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	212.72	46.18
			For Work In Restricted Working Space, Add	34.62	
			For Installation Above 14', Add	17.31	
26 05 33 13-0092	EA		5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	367.68	75.29
			For Work In Restricted Working Space, Add	56.47	
			For Installation Above 14', Add	28.23	
26 05 33 13-0093	EA		6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	552.75	113.09
			For Work In Restricted Working Space, Add	84.81	
			For Installation Above 14', Add	42.41	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0094		Rigid Galvanized Steel (RGS) 12" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2394 for conduit field bending.			
26 05 33 13-0095	EA	1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	60.77		20.66
		For Work In Restricted Working Space, Add	12.40		
		For Installation Above 14', Add	6.20		
26 05 33 13-0096	EA	1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	70.02		23.93
		For Work In Restricted Working Space, Add	14.35		
		For Installation Above 14', Add	7.18		
26 05 33 13-0097	EA	1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	80.94		27.18
		For Work In Restricted Working Space, Add	16.31		
		For Installation Above 14', Add	8.16		
26 05 33 13-0098	EA	2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	91.12		29.90
		For Work In Restricted Working Space, Add	17.94		
		For Installation Above 14', Add	8.97		
26 05 33 13-0099		Rigid Galvanized Steel (RGS) 15" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2394 for conduit field bending.			
26 05 33 13-0100	EA	1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	65.81		20.66
		For Work In Restricted Working Space, Add	12.40		
		For Installation Above 14', Add	6.20		
26 05 33 13-0101	EA	1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	76.50		23.93
		For Work In Restricted Working Space, Add	14.35		
		For Installation Above 14', Add	7.18		
26 05 33 13-0102	EA	1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	83.90		27.18
		For Work In Restricted Working Space, Add	16.31		
		For Installation Above 14', Add	8.16		
26 05 33 13-0103	EA	2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	94.42		29.90
		For Work In Restricted Working Space, Add	17.94		
		For Installation Above 14', Add	8.97		
26 05 33 13-0104	EA	2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	125.26		37.52
		For Work In Restricted Working Space, Add	22.51		
		For Installation Above 14', Add	11.25		
26 05 33 13-0105	EA	3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	168.65		51.11
		For Work In Restricted Working Space, Add	30.67		
		For Installation Above 14', Add	15.33		
26 05 33 13-0106		Rigid Galvanized Steel (RGS) 18" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2394 for conduit field bending.			
26 05 33 13-0107	EA	1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	66.04		20.66
		For Work In Restricted Working Space, Add	12.40		
		For Installation Above 14', Add	6.20		
26 05 33 13-0108	EA	1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	75.86		23.93
		For Work In Restricted Working Space, Add	14.35		
		For Installation Above 14', Add	7.18		
26 05 33 13-0109	EA	1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	87.09		27.18
		For Work In Restricted Working Space, Add	16.31		
		For Installation Above 14', Add	8.16		
26 05 33 13-0110	EA	2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	101.56		29.90
		For Work In Restricted Working Space, Add	17.94		
		For Installation Above 14', Add	8.97		
26 05 33 13-0111	EA	2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	131.91		37.52
		For Work In Restricted Working Space, Add	22.51		
		For Installation Above 14', Add	11.25		
26 05 33 13-0112	EA	3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	174.02		51.11
		For Work In Restricted Working Space, Add	30.67		
		For Installation Above 14', Add	15.33		
26 05 33 13-0113	EA	3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	216.76		57.63
		For Work In Restricted Working Space, Add	34.58		
		For Installation Above 14', Add	17.29		
26 05 33 13-0114	EA	4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	263.45		75.03
		For Work In Restricted Working Space, Add	45.02		
		For Installation Above 14', Add	22.51		
26 05 33 13-0115		Rigid Galvanized Steel (RGS) 24" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2394 for conduit field bending.			
26 05 33 13-0116	EA	1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	74.08		20.66
		For Work In Restricted Working Space, Add	12.40		
		For Installation Above 14', Add	6.20		
26 05 33 13-0117	EA	1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	83.75		23.93
		For Work In Restricted Working Space, Add	14.35		
		For Installation Above 14', Add	7.18		
26 05 33 13-0118	EA	1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	92.99		27.18
		For Work In Restricted Working Space, Add	16.31		
		For Installation Above 14', Add	8.16		
26 05 33 13-0119	EA	2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	110.27		29.90
		For Work In Restricted Working Space, Add	17.94		
		For Installation Above 14', Add	8.97		
26 05 33 13-0120	EA	2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	143.79		37.52
		For Work In Restricted Working Space, Add	22.51		
		For Installation Above 14', Add	11.25		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0121	EA		3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	192.63 30.67 15.33	51.11
26 05 33 13-0122	EA		3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	234.85 34.58 17.29	57.63
26 05 33 13-0123	EA		4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	277.88 45.02 22.51	75.03
26 05 33 13-0124			Rigid Galvanized Steel (RGS) 30" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2394 for conduit field bending.		
26 05 33 13-0125	EA		1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	73.59 12.40 6.20	20.66
26 05 33 13-0126	EA		1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	89.61 14.35 7.18	23.93
26 05 33 13-0127	EA		1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	99.34 16.31 8.16	27.18
26 05 33 13-0128	EA		2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	118.56 17.94 8.97	29.90
26 05 33 13-0129	EA		2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	155.18 22.51 11.25	37.52
26 05 33 13-0130	EA		3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	207.33 30.67 15.33	51.11
26 05 33 13-0131	EA		3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	252.74 34.58 17.29	57.63
26 05 33 13-0132	EA		4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	304.36 45.02 22.51	75.03
26 05 33 13-0133	EA		5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	442.86 73.40 36.70	122.33
26 05 33 13-0134			Rigid Galvanized Steel (RGS) 36" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2394 for conduit field bending.		
26 05 33 13-0135	EA		1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	77.89 12.40 6.20	20.66
26 05 33 13-0136	EA		1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	92.50 14.35 7.18	23.93
26 05 33 13-0137	EA		1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	110.46 16.31 8.16	27.18
26 05 33 13-0138	EA		2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	125.04 17.94 8.97	29.90
26 05 33 13-0139	EA		2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	168.69 22.51 11.25	37.52
26 05 33 13-0140	EA		3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	219.90 30.67 15.33	51.11
26 05 33 13-0141	EA		3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	275.84 34.58 17.29	57.63
26 05 33 13-0142	EA		4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	316.82 45.02 22.51	75.03
26 05 33 13-0143	EA		5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	544.50 73.40 36.70	122.33
26 05 33 13-0144	EA		6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	696.95 110.27 55.13	183.78
26 05 33 13-0145			Rigid Galvanized Steel (RGS) 42" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2394 for conduit field bending.		
26 05 33 13-0146	EA		1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	84.17 12.40 6.20	20.66
26 05 33 13-0147	EA		1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	100.19 14.36 7.18	23.93

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0148	EA		1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	118.63 16.31 8.16	27.18
26 05 33 13-0149	EA		2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	133.58 17.94 8.97	29.90
26 05 33 13-0150	EA		2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	179.01 22.51 11.25	37.52
26 05 33 13-0151	EA		3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	238.32 30.67 15.33	51.11
26 05 33 13-0152	EA		3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	294.32 34.58 17.29	57.63
26 05 33 13-0153	EA		4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	369.97 45.02 22.51	75.03
26 05 33 13-0154	EA		5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	617.82 73.40 36.70	122.33
26 05 33 13-0155	EA		6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	760.44 110.27 55.13	183.78
26 05 33 13-0156 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow (26 05 33 13-0059)					
See CSI section 26 05 33 13-2394 for conduit field bending.					
26 05 33 13-0157	EA		1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	89.41 12.40 6.20	20.66
26 05 33 13-0158	EA		1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	106.11 14.36 7.18	23.93
26 05 33 13-0159	EA		1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	123.79 16.31 8.16	27.18
26 05 33 13-0160	EA		2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	149.52 17.94 8.97	29.90
26 05 33 13-0161	EA		2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	198.07 22.51 11.25	37.52
26 05 33 13-0162	EA		3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	256.88 30.67 15.33	51.11
26 05 33 13-0163	EA		3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	317.54 34.58 17.29	57.63
26 05 33 13-0164	EA		4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	398.18 45.02 22.51	75.03
26 05 33 13-0165	EA		5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	640.78 73.40 36.70	122.33
26 05 33 13-0166	EA		6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	773.29 110.27 55.13	183.78
26 05 33 13-0167 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0059)					
26 05 33 13-0168	EA		1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.94 3.20 1.60 3.20	5.33
26 05 33 13-0169	EA		3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.75 3.41 1.71 3.41	5.68
26 05 33 13-0170	EA		1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.37 3.84 1.92 3.84	6.39
26 05 33 13-0171	EA		1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.04 4.27 2.13 4.27	7.11
26 05 33 13-0172	EA		1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.89 5.33 2.67 5.33	8.89
26 05 33 13-0173	EA		2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.41 6.40 3.20 6.40	10.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0174 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.50 7.47 3.73 7.47	12.44
26 05 33 13-0175 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.30 8.53 4.27 8.53	14.22
26 05 33 13-0176 EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.74 9.60 4.80 9.60	13.38
26 05 33 13-0177 EA 4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.98 10.67 5.33 10.67	17.77
26 05 33 13-0178 EA 5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.77 11.73 5.87 11.73	19.56
26 05 33 13-0179 EA 6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.74 12.80 6.40 12.80	21.33
26 05 33 13-0180 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0059)		
26 05 33 13-0181 EA 1/2" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.25 3.77 1.88 3.77	6.27
26 05 33 13-0182 EA 3/4" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.41 4.01 2.01 4.01	6.70
26 05 33 13-0183 EA 1" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.85 4.52 2.26 4.52	7.53
26 05 33 13-0184 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.94 5.02 2.51 5.02	8.37
26 05 33 13-0185 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.17 6.27 3.14 6.27	10.45
26 05 33 13-0186 EA 2" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.61 7.53 3.77 7.53	12.55
26 05 33 13-0187 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.31 8.78 4.39 8.78	14.63
26 05 33 13-0188 EA 3" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.93 10.04 5.02 10.04	16.73
26 05 33 13-0189 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.43 11.29 5.65 11.29	18.82
26 05 33 13-0190 EA 4" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.63 12.55 6.27 12.55	20.91
26 05 33 13-0191 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	129.14 13.80 6.90 13.80	23.00
26 05 33 13-0192 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	190.49 15.06 7.53 15.06	25.10
26 05 33 13-0193 Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0059)		
26 05 33 13-0194 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.08 3.77 1.88 3.77	6.27

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0195 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	15.66	6.70
For Work In Restricted Working Space, Add	4.01	
For Installation Above 14', Add	2.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.01	
26 05 33 13-0196 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	18.42	7.53
For Work In Restricted Working Space, Add	4.52	
For Installation Above 14', Add	2.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-0197 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	21.60	8.37
For Work In Restricted Working Space, Add	5.02	
For Installation Above 14', Add	2.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0198 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	26.95	10.45
For Work In Restricted Working Space, Add	6.27	
For Installation Above 14', Add	3.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0199 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	33.53	12.55
For Work In Restricted Working Space, Add	7.53	
For Installation Above 14', Add	3.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.53	
26 05 33 13-0200 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	46.98	14.63
For Work In Restricted Working Space, Add	8.78	
For Installation Above 14', Add	4.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	
26 05 33 13-0201 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	55.75	16.73
For Work In Restricted Working Space, Add	10.04	
For Installation Above 14', Add	5.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	
26 05 33 13-0202 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	72.89	18.82
For Work In Restricted Working Space, Add	11.29	
For Installation Above 14', Add	5.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.29	
26 05 33 13-0203 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	103.16	20.91
For Work In Restricted Working Space, Add	12.55	
For Installation Above 14', Add	6.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	
26 05 33 13-0204 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	136.24	23.00
For Work In Restricted Working Space, Add	13.80	
For Installation Above 14', Add	6.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.80	
26 05 33 13-0205 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	193.00	25.10
For Work In Restricted Working Space, Add	15.06	
For Installation Above 14', Add	7.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.06	
26 05 33 13-0206 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0059)		
26 05 33 13-0207 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	21.25	7.53
For Work In Restricted Working Space, Add	4.52	
For Installation Above 14', Add	2.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-0208 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	23.80	8.37
For Work In Restricted Working Space, Add	5.02	
For Installation Above 14', Add	2.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0209 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	27.22	9.20
For Work In Restricted Working Space, Add	5.52	
For Installation Above 14', Add	2.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-0210 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	32.32	10.45
For Work In Restricted Working Space, Add	6.27	
For Installation Above 14', Add	3.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0211 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	39.09	12.97
For Work In Restricted Working Space, Add	7.78	
For Installation Above 14', Add	3.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 05 33 13-0212 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	49.24	15.48
For Work In Restricted Working Space, Add	9.29	
For Installation Above 14', Add	4.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0213 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	65.84	17.98
For Work In Restricted Working Space, Add	10.79	
For Installation Above 14', Add	5.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.79	
26 05 33 13-0214 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	72.65	20.91
For Work In Restricted Working Space, Add	12.55	
For Installation Above 14', Add	6.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	
26 05 33 13-0215 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	82.14	23.42
For Work In Restricted Working Space, Add	14.05	
For Installation Above 14', Add	7.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0216	EA		4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	105.90	25.93
			For Work In Restricted Working Space, Add	15.56	
			For Installation Above 14', Add	7.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 05 33 13-0217	EA		5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	149.89	28.44
			For Work In Restricted Working Space, Add	17.06	
			For Installation Above 14', Add	8.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.06	
26 05 33 13-0218	EA		6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	206.11	31.36
			For Work In Restricted Working Space, Add	18.82	
			For Installation Above 14', Add	9.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.82	
26 05 33 13-0219			Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0059)		
26 05 33 13-0220	EA		1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	11.94	3.85
			For Work In Restricted Working Space, Add	2.86	
			For Installation Above 14', Add	1.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.86	
26 05 33 13-0221	EA		3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	14.39	4.43
			For Work In Restricted Working Space, Add	3.32	
			For Installation Above 14', Add	1.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-0222	EA		1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	18.65	5.35
			For Work In Restricted Working Space, Add	4.00	
			For Installation Above 14', Add	2.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.00	
26 05 33 13-0223	EA		1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	27.00	6.61
			For Work In Restricted Working Space, Add	4.97	
			For Installation Above 14', Add	2.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.97	
26 05 33 13-0224	EA		1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	36.52	8.87
			For Work In Restricted Working Space, Add	6.66	
			For Installation Above 14', Add	3.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.66	
26 05 33 13-0225	EA		2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	61.33	13.30
			For Work In Restricted Working Space, Add	9.97	
			For Installation Above 14', Add	4.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.97	
26 05 33 13-0226	EA		2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	106.35	14.72
			For Work In Restricted Working Space, Add	11.04	
			For Installation Above 14', Add	5.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.04	
26 05 33 13-0227	EA		3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	126.89	17.82
			For Work In Restricted Working Space, Add	13.37	
			For Installation Above 14', Add	6.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-0228	EA		3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	170.76	22.33
			For Work In Restricted Working Space, Add	16.74	
			For Installation Above 14', Add	8.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.74	
26 05 33 13-0229	EA		4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	200.33	26.76
			For Work In Restricted Working Space, Add	20.08	
			For Installation Above 14', Add	10.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	
26 05 33 13-0230	EA		5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	344.01	29.78
			For Work In Restricted Working Space, Add	22.31	
			For Installation Above 14', Add	11.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.31	
26 05 33 13-0231	EA		6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	410.04	33.46
			For Work In Restricted Working Space, Add	25.09	
			For Installation Above 14', Add	12.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.09	
26 05 33 13-0232			Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0059)		
26 05 33 13-0233	EA		1/2" x 2" Long Rigid Galvanized Steel (RGS) Nipple.....	11.67	5.43
			For Work In Restricted Working Space, Add	3.26	
			For Installation Above 14', Add	1.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26	
26 05 33 13-0234	EA		3/4" x 2" Long Rigid Galvanized Steel (RGS) Nipple.....	13.44	6.27
			For Work In Restricted Working Space, Add	3.77	
			For Installation Above 14', Add	1.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-0235	EA		1" x 2" Long Rigid Galvanized Steel (RGS) Nipple.....	17.13	7.95
			For Work In Restricted Working Space, Add	4.77	
			For Installation Above 14', Add	2.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-0236	EA		1-1/4" x 2" Long Rigid Galvanized Steel (RGS) Nipple.....	19.98	9.20
			For Work In Restricted Working Space, Add	5.52	
			For Installation Above 14', Add	2.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0237	EA		1-1/2" x 2" Long Rigid Galvanized Steel (RGS) Nipple.....	22.78	10.45
			For Work In Restricted Working Space, Add	6.27	
			For Installation Above 14', Add	3.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0238	EA		1/2" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	11.73	5.43
			For Work In Restricted Working Space, Add	3.26	
			For Installation Above 14', Add	1.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26	
26 05 33 13-0239	EA		3/4" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	13.54	6.27
			For Work In Restricted Working Space, Add	3.77	
			For Installation Above 14', Add	1.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-0240	EA		1" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	17.24	7.95
			For Work In Restricted Working Space, Add	4.77	
			For Installation Above 14', Add	2.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-0241	EA		1-1/4" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	20.13	9.20
			For Work In Restricted Working Space, Add	5.52	
			For Installation Above 14', Add	2.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-0242	EA		1-1/2" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	23.02	10.45
			For Work In Restricted Working Space, Add	6.27	
			For Installation Above 14', Add	3.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0243	EA		2" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	25.97	11.71
			For Work In Restricted Working Space, Add	7.03	
			For Installation Above 14', Add	3.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.03	
26 05 33 13-0244	EA		1/2" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	11.80	5.43
			For Work In Restricted Working Space, Add	3.26	
			For Installation Above 14', Add	1.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26	
26 05 33 13-0245	EA		3/4" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	13.63	6.27
			For Work In Restricted Working Space, Add	3.77	
			For Installation Above 14', Add	1.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-0246	EA		1" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	17.39	7.95
			For Work In Restricted Working Space, Add	4.77	
			For Installation Above 14', Add	2.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-0247	EA		1-1/4" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	20.26	9.20
			For Work In Restricted Working Space, Add	5.52	
			For Installation Above 14', Add	2.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-0248	EA		1-1/2" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	23.18	10.45
			For Work In Restricted Working Space, Add	6.27	
			For Installation Above 14', Add	3.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0249	EA		2" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	26.35	11.71
			For Work In Restricted Working Space, Add	7.02	
			For Installation Above 14', Add	3.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02	
26 05 33 13-0250	EA		2-1/2" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	34.52	14.22
			For Work In Restricted Working Space, Add	8.53	
			For Installation Above 14', Add	4.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53	
26 05 33 13-0251	EA		3" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	46.78	19.66
			For Work In Restricted Working Space, Add	11.79	
			For Installation Above 14', Add	5.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79	
26 05 33 13-0252	EA		1/2" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	11.89	5.43
			For Work In Restricted Working Space, Add	3.26	
			For Installation Above 14', Add	1.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26	
26 05 33 13-0253	EA		3/4" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	13.67	6.27
			For Work In Restricted Working Space, Add	3.77	
			For Installation Above 14', Add	1.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-0254	EA		1" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	17.59	7.95
			For Work In Restricted Working Space, Add	4.77	
			For Installation Above 14', Add	2.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-0255	EA		1-1/4" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	20.52	9.20
			For Work In Restricted Working Space, Add	5.52	
			For Installation Above 14', Add	2.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-0256	EA		1-1/2" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	23.52	10.45
			For Work In Restricted Working Space, Add	6.27	
			For Installation Above 14', Add	3.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0257	EA		2" x 3-1/2" Long Rigid Galvanized Steel (RGS), Nipple.....	26.76	11.71
			For Work In Restricted Working Space, Add	7.02	
			For Installation Above 14', Add	3.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0258	EA	2-1/2" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	35.63	14.22	
		For Work In Restricted Working Space, Add	8.53		
		For Installation Above 14', Add	4.27		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53		
26 05 33 13-0259	EA	3" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	47.74	19.66	
		For Work In Restricted Working Space, Add	11.79		
		For Installation Above 14', Add	5.90		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79		
26 05 33 13-0260	EA	1/2" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	11.97	5.43	
		For Work In Restricted Working Space, Add	3.26		
		For Installation Above 14', Add	1.63		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26		
26 05 33 13-0261	EA	3/4" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	13.82	6.27	
		For Work In Restricted Working Space, Add	3.77		
		For Installation Above 14', Add	1.88		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77		
26 05 33 13-0262	EA	1" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	17.72	7.95	
		For Work In Restricted Working Space, Add	4.77		
		For Installation Above 14', Add	2.38		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77		
26 05 33 13-0263	EA	1-1/4" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	20.64	9.20	
		For Work In Restricted Working Space, Add	5.52		
		For Installation Above 14', Add	2.76		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52		
26 05 33 13-0264	EA	1-1/2" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	23.75	10.45	
		For Work In Restricted Working Space, Add	6.27		
		For Installation Above 14', Add	3.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27		
26 05 33 13-0265	EA	2" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	27.11	11.71	
		For Work In Restricted Working Space, Add	7.02		
		For Installation Above 14', Add	3.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02		
26 05 33 13-0266	EA	2-1/2" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	35.97	14.22	
		For Work In Restricted Working Space, Add	8.53		
		For Installation Above 14', Add	4.27		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53		
26 05 33 13-0267	EA	3" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	48.45	19.66	
		For Work In Restricted Working Space, Add	11.79		
		For Installation Above 14', Add	5.90		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79		
26 05 33 13-0268	EA	3-1/2" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	55.46	22.16	
		For Work In Restricted Working Space, Add	13.30		
		For Installation Above 14', Add	6.65		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30		
26 05 33 13-0269	EA	4" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	70.20	28.86	
		For Work In Restricted Working Space, Add	17.31		
		For Installation Above 14', Add	8.66		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31		
26 05 33 13-0270	EA	1/2" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	12.10	5.43	
		For Work In Restricted Working Space, Add	3.26		
		For Installation Above 14', Add	1.63		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26		
26 05 33 13-0271	EA	3/4" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	14.02	6.27	
		For Work In Restricted Working Space, Add	3.77		
		For Installation Above 14', Add	1.88		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77		
26 05 33 13-0272	EA	1" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	17.96	7.95	
		For Work In Restricted Working Space, Add	4.77		
		For Installation Above 14', Add	2.38		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77		
26 05 33 13-0273	EA	1-1/4" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	20.99	9.20	
		For Work In Restricted Working Space, Add	5.52		
		For Installation Above 14', Add	2.76		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52		
26 05 33 13-0274	EA	1-1/2" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	24.09	10.45	
		For Work In Restricted Working Space, Add	6.27		
		For Installation Above 14', Add	3.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27		
26 05 33 13-0275	EA	2" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	27.73	11.71	
		For Work In Restricted Working Space, Add	7.02		
		For Installation Above 14', Add	3.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02		
26 05 33 13-0276	EA	2-1/2" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	37.34	14.22	
		For Work In Restricted Working Space, Add	8.53		
		For Installation Above 14', Add	4.27		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53		
26 05 33 13-0277	EA	3" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	49.94	19.66	
		For Work In Restricted Working Space, Add	11.79		
		For Installation Above 14', Add	5.90		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79		
26 05 33 13-0278	EA	3-1/2" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	56.93	22.16	
		For Work In Restricted Working Space, Add	13.30		
		For Installation Above 14', Add	6.65		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0279	EA	4" x 5" Long Rigid Galvanized Steel (RGS) Nipple	72.36	28.86
		For Work In Restricted Working Space, Add	17.31	
		For Installation Above 14', Add	8.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31	
26 05 33 13-0280	EA	5" x 5" Long Rigid Galvanized Steel (RGS) Nipple	107.88	39.73
		For Work In Restricted Working Space, Add	23.84	
		For Installation Above 14', Add	11.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.84	
26 05 33 13-0281	EA	6" x 5" Long Rigid Galvanized Steel (RGS) Nipple	137.39	50.94
		For Work In Restricted Working Space, Add	30.59	
		For Installation Above 14', Add	15.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.59	
26 05 33 13-0282	EA	1/2" x 6" Long Rigid Galvanized Steel (RGS) Nipple	12.34	5.43
		For Work In Restricted Working Space, Add	3.26	
		For Installation Above 14', Add	1.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26	
26 05 33 13-0283	EA	3/4" x 6" Long Rigid Galvanized Steel (RGS) Nipple	14.26	6.27
		For Work In Restricted Working Space, Add	3.77	
		For Installation Above 14', Add	1.88	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-0284	EA	1" x 6" Long Rigid Galvanized Steel (RGS) Nipple	18.15	7.95
		For Work In Restricted Working Space, Add	4.77	
		For Installation Above 14', Add	2.38	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-0285	EA	1-1/4" x 6" Long Rigid Galvanized Steel (RGS) Nipple	21.32	9.20
		For Work In Restricted Working Space, Add	5.52	
		For Installation Above 14', Add	2.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-0286	EA	1-1/2" x 6" Long Rigid Galvanized Steel (RGS) Nipple	24.82	10.45
		For Work In Restricted Working Space, Add	6.27	
		For Installation Above 14', Add	3.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0287	EA	2" x 6" Long Rigid Galvanized Steel (RGS) Nipple	28.35	11.71
		For Work In Restricted Working Space, Add	7.02	
		For Installation Above 14', Add	3.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02	
26 05 33 13-0288	EA	2-1/2" x 6" Long Rigid Galvanized Steel (RGS) Nipple	38.54	14.22
		For Work In Restricted Working Space, Add	8.53	
		For Installation Above 14', Add	4.27	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53	
26 05 33 13-0289	EA	3" x 6" Long Rigid Galvanized Steel (RGS) Nipple	51.45	19.66
		For Work In Restricted Working Space, Add	11.79	
		For Installation Above 14', Add	5.90	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79	
26 05 33 13-0290	EA	3-1/2" x 6" Long Rigid Galvanized Steel (RGS) Nipple	58.73	22.16
		For Work In Restricted Working Space, Add	13.30	
		For Installation Above 14', Add	6.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30	
26 05 33 13-0291	EA	4" x 6" Long Rigid Galvanized Steel (RGS) Nipple	74.07	28.86
		For Work In Restricted Working Space, Add	17.31	
		For Installation Above 14', Add	8.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31	
26 05 33 13-0292	EA	5" x 6" Long Rigid Galvanized Steel (RGS) Nipple	110.39	39.73
		For Work In Restricted Working Space, Add	23.84	
		For Installation Above 14', Add	11.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.84	
26 05 33 13-0293	EA	6" x 6" Long Rigid Galvanized Steel (RGS) Nipple	141.05	50.94
		For Work In Restricted Working Space, Add	30.59	
		For Installation Above 14', Add	15.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.59	
26 05 33 13-0294	EA	1/2" x 8" Long Rigid Galvanized Steel (RGS) Nipple	13.21	5.43
		For Work In Restricted Working Space, Add	3.26	
		For Installation Above 14', Add	1.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26	
26 05 33 13-0295	EA	3/4" x 8" Long Rigid Galvanized Steel (RGS) Nipple	15.37	6.27
		For Work In Restricted Working Space, Add	3.77	
		For Installation Above 14', Add	1.88	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-0296	EA	1" x 8" Long Rigid Galvanized Steel (RGS) Nipple	19.46	7.95
		For Work In Restricted Working Space, Add	4.77	
		For Installation Above 14', Add	2.38	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-0297	EA	1-1/4" x 8" Long Rigid Galvanized Steel (RGS) Nipple	23.18	9.20
		For Work In Restricted Working Space, Add	5.52	
		For Installation Above 14', Add	2.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-0298	EA	1-1/2" x 8" Long Rigid Galvanized Steel (RGS) Nipple	26.90	10.45
		For Work In Restricted Working Space, Add	6.27	
		For Installation Above 14', Add	3.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0299	EA	2" x 8" Long Rigid Galvanized Steel (RGS) Nipple	30.53	11.71
		For Work In Restricted Working Space, Add	7.02	
		For Installation Above 14', Add	3.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0300	EA	2-1/2" x 8" Long Rigid Galvanized Steel (RGS) Nipple	41.72	14.22	
		For Work In Restricted Working Space, Add	8.53		
		For Installation Above 14', Add	4.27		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53		
26 05 33 13-0301	EA	3" x 8" Long Rigid Galvanized Steel (RGS) Nipple	55.10	19.66	
		For Work In Restricted Working Space, Add	11.79		
		For Installation Above 14', Add	5.90		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79		
26 05 33 13-0302	EA	3-1/2" x 8" Long Rigid Galvanized Steel (RGS) Nipple	62.38	22.16	
		For Work In Restricted Working Space, Add	13.30		
		For Installation Above 14', Add	6.65		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30		
26 05 33 13-0303	EA	4" x 8" Long Rigid Galvanized Steel (RGS) Nipple	78.10	28.86	
		For Work In Restricted Working Space, Add	17.31		
		For Installation Above 14', Add	8.66		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31		
26 05 33 13-0304	EA	5" x 8" Long Rigid Galvanized Steel (RGS) Nipple	116.20	39.73	
		For Work In Restricted Working Space, Add	23.84		
		For Installation Above 14', Add	11.92		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.84		
26 05 33 13-0305	EA	6" x 8" Long Rigid Galvanized Steel (RGS) Nipple	147.58	50.94	
		For Work In Restricted Working Space, Add	30.59		
		For Installation Above 14', Add	15.29		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.59		
26 05 33 13-0306	EA	1/2" x 10" Long Rigid Galvanized Steel (RGS) Nipple	13.79	5.43	
		For Work In Restricted Working Space, Add	3.26		
		For Installation Above 14', Add	1.63		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26		
26 05 33 13-0307	EA	3/4" x 10" Long Rigid Galvanized Steel (RGS) Nipple	15.94	6.27	
		For Work In Restricted Working Space, Add	3.77		
		For Installation Above 14', Add	1.88		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77		
26 05 33 13-0308	EA	1" x 10" Long Rigid Galvanized Steel (RGS) Nipple	20.50	7.95	
		For Work In Restricted Working Space, Add	4.77		
		For Installation Above 14', Add	2.38		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77		
26 05 33 13-0309	EA	1-1/4" x 10" Long Rigid Galvanized Steel (RGS) Nipple	24.41	9.20	
		For Work In Restricted Working Space, Add	5.52		
		For Installation Above 14', Add	2.76		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52		
26 05 33 13-0310	EA	1-1/2" x 10" Long Rigid Galvanized Steel (RGS) Nipple	28.11	10.45	
		For Work In Restricted Working Space, Add	6.27		
		For Installation Above 14', Add	3.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27		
26 05 33 13-0311	EA	2" x 10" Long Rigid Galvanized Steel (RGS) Nipple	31.94	11.71	
		For Work In Restricted Working Space, Add	7.02		
		For Installation Above 14', Add	3.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02		
26 05 33 13-0312	EA	2-1/2" x 10" Long Rigid Galvanized Steel (RGS) Nipple	43.86	14.22	
		For Work In Restricted Working Space, Add	8.53		
		For Installation Above 14', Add	4.27		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53		
26 05 33 13-0313	EA	3" x 10" Long Rigid Galvanized Steel (RGS) Nipple	57.97	19.66	
		For Work In Restricted Working Space, Add	11.79		
		For Installation Above 14', Add	5.90		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79		
26 05 33 13-0314	EA	3-1/2" x 10" Long Rigid Galvanized Steel (RGS) Nipple	66.16	22.16	
		For Work In Restricted Working Space, Add	13.30		
		For Installation Above 14', Add	6.65		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30		
26 05 33 13-0315	EA	4" x 10" Long Rigid Galvanized Steel (RGS) Nipple	82.89	28.86	
		For Work In Restricted Working Space, Add	17.31		
		For Installation Above 14', Add	8.66		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31		
26 05 33 13-0316	EA	5" x 10" Long Rigid Galvanized Steel (RGS) Nipple	122.53	39.73	
		For Work In Restricted Working Space, Add	23.84		
		For Installation Above 14', Add	11.92		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.84		
26 05 33 13-0317	EA	6" x 10" Long Rigid Galvanized Steel (RGS) Nipple	158.97	50.94	
		For Work In Restricted Working Space, Add	30.59		
		For Installation Above 14', Add	15.29		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.59		
26 05 33 13-0318	EA	1/2" x 12" Long Rigid Galvanized Steel (RGS) Nipple	14.24	5.43	
		For Work In Restricted Working Space, Add	3.26		
		For Installation Above 14', Add	1.63		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26		
26 05 33 13-0319	EA	3/4" x 12" Long Rigid Galvanized Steel (RGS) Nipple	16.35	6.27	
		For Work In Restricted Working Space, Add	3.77		
		For Installation Above 14', Add	1.88		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77		
26 05 33 13-0320	EA	1" x 12" Long Rigid Galvanized Steel (RGS) Nipple	21.12	7.95	
		For Work In Restricted Working Space, Add	4.77		
		For Installation Above 14', Add	2.38		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0321	EA		1-1/4" x 12" Long Rigid Galvanized Steel (RGS) Nipple	25.40	9.20
			For Work In Restricted Working Space, Add	5.52	
			For Installation Above 14', Add	2.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-0322	EA		1-1/2" x 12" Long Rigid Galvanized Steel (RGS) Nipple	28.72	10.45
			For Work In Restricted Working Space, Add	6.27	
			For Installation Above 14', Add	3.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0323	EA		2" x 12" Long Rigid Galvanized Steel (RGS) Nipple	33.13	11.71
			For Work In Restricted Working Space, Add	7.02	
			For Installation Above 14', Add	3.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02	
26 05 33 13-0324	EA		2-1/2" x 12" Long Rigid Galvanized Steel (RGS) Nipple	46.38	14.22
			For Work In Restricted Working Space, Add	8.53	
			For Installation Above 14', Add	4.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53	
26 05 33 13-0325	EA		3" x 12" Long Rigid Galvanized Steel (RGS) Nipple	61.97	19.66
			For Work In Restricted Working Space, Add	11.79	
			For Installation Above 14', Add	5.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79	
26 05 33 13-0326	EA		3-1/2" x 12" Long Rigid Galvanized Steel (RGS) Nipple	69.85	22.16
			For Work In Restricted Working Space, Add	13.30	
			For Installation Above 14', Add	6.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30	
26 05 33 13-0327	EA		4" x 12" Long Rigid Galvanized Steel (RGS) Nipple	87.69	28.86
			For Work In Restricted Working Space, Add	17.31	
			For Installation Above 14', Add	8.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31	
26 05 33 13-0328	EA		5" x 12" Long Rigid Galvanized Steel (RGS) Nipple	131.64	39.73
			For Work In Restricted Working Space, Add	23.84	
			For Installation Above 14', Add	11.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.84	
26 05 33 13-0329	EA		6" x 12" Long Rigid Galvanized Steel (RGS) Nipple	165.31	50.94
			For Work In Restricted Working Space, Add	30.59	
			For Installation Above 14', Add	15.29	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.59	
26 05 33 13-0330			Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0059)		
26 05 33 13-0331	EA		1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple	12.24	4.35
			For Work In Restricted Working Space, Add	3.29	
			For Installation Above 14', Add	1.64	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.29	
26 05 33 13-0332	EA		3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple	14.44	5.02
			For Work In Restricted Working Space, Add	3.74	
			For Installation Above 14', Add	1.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.74	
26 05 33 13-0333	EA		1" Rigid Galvanized Steel (RGS) Off-Set Nipple	18.20	6.35
			For Work In Restricted Working Space, Add	4.79	
			For Installation Above 14', Add	2.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.79	
26 05 33 13-0334	EA		1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	22.74	7.61
			For Work In Restricted Working Space, Add	5.74	
			For Installation Above 14', Add	2.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.74	
26 05 33 13-0335	EA		1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	24.90	8.37
			For Work In Restricted Working Space, Add	6.28	
			For Installation Above 14', Add	3.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.28	
26 05 33 13-0336	EA		2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	32.08	10.28
			For Work In Restricted Working Space, Add	7.73	
			For Installation Above 14', Add	3.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.73	
26 05 33 13-0337	EA		2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	52.32	16.73
			For Work In Restricted Working Space, Add	12.55	
			For Installation Above 14', Add	6.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	
26 05 33 13-0338	EA		3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	81.57	23.08
			For Work In Restricted Working Space, Add	17.31	
			For Installation Above 14', Add	8.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31	
26 05 33 13-0339	EA		3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	100.01	27.27
			For Work In Restricted Working Space, Add	20.34	
			For Installation Above 14', Add	10.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.34	
26 05 33 13-0340	EA		4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	119.16	31.45
			For Work In Restricted Working Space, Add	23.59	
			For Installation Above 14', Add	11.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.59	

26 05 33 13-0341 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (26 05 33 13-0059)

Note: Erickson fittings.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0342 EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	35.43	13.38
For Work In Restricted Working Space, Add	10.05	
For Installation Above 14', Add	5.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.05	
26 05 33 13-0343 EA 3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	39.87	14.97
For Work In Restricted Working Space, Add	11.22	
For Installation Above 14', Add	5.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.22	
26 05 33 13-0344 EA 1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	46.23	16.65
For Work In Restricted Working Space, Add	12.50	
For Installation Above 14', Add	6.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.50	
26 05 33 13-0345 EA 1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	55.34	18.23
For Work In Restricted Working Space, Add	13.67	
For Installation Above 14', Add	6.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.67	
26 05 33 13-0346 EA 1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	61.55	19.91
For Work In Restricted Working Space, Add	14.96	
For Installation Above 14', Add	7.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.96	
26 05 33 13-0347 EA 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	77.42	21.58
For Work In Restricted Working Space, Add	16.20	
For Installation Above 14', Add	8.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.20	
26 05 33 13-0348 EA 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	121.16	26.76
For Work In Restricted Working Space, Add	20.08	
For Installation Above 14', Add	10.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	
26 05 33 13-0349 EA 3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	165.97	33.46
For Work In Restricted Working Space, Add	25.09	
For Installation Above 14', Add	12.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.09	
26 05 33 13-0350 EA 3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	237.55	40.15
For Work In Restricted Working Space, Add	30.12	
For Installation Above 14', Add	15.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.12	
26 05 33 13-0351 EA 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	270.00	43.50
For Work In Restricted Working Space, Add	32.62	
For Installation Above 14', Add	16.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.62	
26 05 33 13-0352 EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	464.80	53.53
For Work In Restricted Working Space, Add	40.15	
For Installation Above 14', Add	20.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.15	
26 05 33 13-0353 EA 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	595.90	61.90
For Work In Restricted Working Space, Add	46.42	
For Installation Above 14', Add	23.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.42	
26 05 33 13-0354 Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0059)		
26 05 33 13-0355 EA 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	20.17	6.70
For Work In Restricted Working Space, Add	5.02	
For Installation Above 14', Add	2.51	
26 05 33 13-0356 EA 3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	22.47	7.36
For Work In Restricted Working Space, Add	5.52	
For Installation Above 14', Add	2.76	
26 05 33 13-0357 EA 1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	25.77	8.37
For Work In Restricted Working Space, Add	6.28	
For Installation Above 14', Add	3.14	
26 05 33 13-0358 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	28.98	9.03
For Work In Restricted Working Space, Add	6.77	
For Installation Above 14', Add	3.39	
26 05 33 13-0359 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	34.02	10.03
For Work In Restricted Working Space, Add	7.53	
For Installation Above 14', Add	3.77	
26 05 33 13-0360 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	40.78	11.05
For Work In Restricted Working Space, Add	8.28	
For Installation Above 14', Add	4.14	
26 05 33 13-0361 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	54.59	13.38
For Work In Restricted Working Space, Add	10.04	
For Installation Above 14', Add	5.02	
26 05 33 13-0362 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	67.61	16.73
For Work In Restricted Working Space, Add	12.55	
For Installation Above 14', Add	6.27	
26 05 33 13-0363 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	81.20	20.08
For Work In Restricted Working Space, Add	15.06	
For Installation Above 14', Add	7.53	
26 05 33 13-0364 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	91.21	21.75
For Work In Restricted Working Space, Add	16.31	
For Installation Above 14', Add	8.16	
26 05 33 13-0365 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0059)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0366 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.47 4.52 2.26 4.52	7.53
26 05 33 13-0367 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.58 5.02 2.51 5.02	8.37
26 05 33 13-0368 EA 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.42 6.27 3.14 6.27	10.45
26 05 33 13-0369 EA 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.23 7.53 3.77 7.53	12.55
26 05 33 13-0370 EA 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.20 10.04 5.02 10.04	16.73
26 05 33 13-0371 EA 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.64 11.29 5.65 11.29	18.82
26 05 33 13-0372 EA 2-1/2" Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.11 12.55 6.27 12.55	20.91
26 05 33 13-0373 EA 3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.65 15.81 7.91 15.81	26.35
26 05 33 13-0374 EA 3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.08 19.07 9.54 19.07	31.78
26 05 33 13-0375 EA 4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.55 22.59 11.29 22.59	37.64
26 05 33 13-0376 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement (26 05 33 13-0059) Note: Type AX		
26 05 33 13-0377 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	82.87 10.04 5.02	13.38
26 05 33 13-0378 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	94.03 11.29 5.65	15.06
26 05 33 13-0379 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	111.21 12.55 6.27	16.73
26 05 33 13-0380 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	135.87 13.80 6.90	18.40
26 05 33 13-0381 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	170.28 15.06 7.53	20.08
26 05 33 13-0382 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	234.51 16.31 8.16	21.75
26 05 33 13-0383 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	358.12 20.08 10.04	26.76
26 05 33 13-0384 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	458.69 25.09 12.55	33.46
26 05 33 13-0385 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	668.33 30.11 15.06	40.15
26 05 33 13-0386 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	712.54 32.62 16.31	43.50
26 05 33 13-0387 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	1,089.45 40.15 20.07	53.53
26 05 33 13-0388 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	1,337.37 44.57 22.28	59.39

26 05 33 13-0389 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement (26 05
33 13-0059)
Note: Type AX-8



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0390 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	91.13 10.04 5.02	13.38
26 05 33 13-0391 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	101.35 11.29 5.65	15.06
26 05 33 13-0392 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	122.69 12.55 6.27	16.73
26 05 33 13-0393 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	153.95 13.80 6.90	18.40
26 05 33 13-0394 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	206.21 15.06 7.53	20.08
26 05 33 13-0395 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	251.67 16.31 8.16	21.75
26 05 33 13-0396 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	469.41 20.08 10.04	26.76
26 05 33 13-0397 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	534.69 25.09 12.55	33.46
26 05 33 13-0398 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	818.52 30.11 15.06	40.15
26 05 33 13-0399 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	886.13 32.62 16.31	43.50
26 05 33 13-0400 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	1,235.78 40.15 20.07	53.53
26 05 33 13-0401 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	1,525.64 44.57 22.28	59.39

26 05 33 13-0402 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement (26 05 33 13-0059)

Note: Type EX

26 05 33 13-0403 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	103.21 10.04 5.02	13.38
26 05 33 13-0404 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	129.85 11.29 5.65	15.06
26 05 33 13-0405 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	161.18 12.55 6.27	16.73
26 05 33 13-0406 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	195.64 13.80 6.90	18.40
26 05 33 13-0407 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	262.66 15.06 7.53	20.08
26 05 33 13-0408 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	360.75 16.31 8.16	21.75
26 05 33 13-0409 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	559.21 20.08 10.04	26.76
26 05 33 13-0410 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	753.33 25.09 12.55	33.46
26 05 33 13-0411 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	1,129.50 30.11 15.06	40.15
26 05 33 13-0412 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	1,169.39 32.62 16.31	43.50
26 05 33 13-0413 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	1,757.91 40.15 20.07	53.53
26 05 33 13-0414 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	2,178.14 44.57 22.28	59.39

26 05 33 13-0415 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings (26 05 33 13-0059)

Note: Type DX

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0416 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 177.75 For Work In Restricted Working Space, Add 10.04 For Installation Above 14', Add 5.02	177.75	13.38
26 05 33 13-0417 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 211.58 For Work In Restricted Working Space, Add 11.29 For Installation Above 14', Add 5.65	211.58	15.06
26 05 33 13-0418 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 255.51 For Work In Restricted Working Space, Add 12.55 For Installation Above 14', Add 6.27	255.51	16.73
26 05 33 13-0419 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 300.15 For Work In Restricted Working Space, Add 13.80 For Installation Above 14', Add 6.90	300.15	18.40
26 05 33 13-0420 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 331.87 For Work In Restricted Working Space, Add 15.06 For Installation Above 14', Add 7.53	331.87	20.08
26 05 33 13-0421 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 409.63 For Work In Restricted Working Space, Add 16.31 For Installation Above 14', Add 8.16	409.63	21.75
26 05 33 13-0422 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 541.06 For Work In Restricted Working Space, Add 20.08 For Installation Above 14', Add 10.04	541.06	26.76
26 05 33 13-0423 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 686.08 For Work In Restricted Working Space, Add 25.09 For Installation Above 14', Add 12.55	686.08	33.46
26 05 33 13-0424 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 772.41 For Work In Restricted Working Space, Add 30.11 For Installation Above 14', Add 15.06	772.41	40.15
26 05 33 13-0425 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 935.74 For Work In Restricted Working Space, Add 32.62 For Installation Above 14', Add 16.31	935.74	43.50
26 05 33 13-0426 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 1,596.80 For Work In Restricted Working Space, Add 40.15 For Installation Above 14', Add 20.07	1,596.80	53.53
26 05 33 13-0427 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting 2,534.45 For Work In Restricted Working Space, Add 44.57 For Installation Above 14', Add 22.28	2,534.45	59.39
26 05 33 13-0428 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0059)		
26 05 33 13-0429 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper 46.48 For Work In Restricted Working Space, Add 5.02 For Installation Above 14', Add 2.51	46.48	6.70
26 05 33 13-0430 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper 53.67 For Work In Restricted Working Space, Add 6.28 For Installation Above 14', Add 3.14	53.67	8.37
26 05 33 13-0431 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper 66.11 For Work In Restricted Working Space, Add 7.53 For Installation Above 14', Add 3.76	66.11	10.03
26 05 33 13-0432 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper 92.73 For Work In Restricted Working Space, Add 10.04 For Installation Above 14', Add 5.02	92.73	13.38
26 05 33 13-0433 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper 140.47 For Work In Restricted Working Space, Add 15.06 For Installation Above 14', Add 7.53	140.47	20.08
26 05 33 13-0434 EA 5" To 6" Conduit, 14" Bonding Jumper 238.42 For Work In Restricted Working Space, Add 20.08 For Installation Above 14', Add 10.04	238.42	26.76
26 05 33 13-0435 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper 51.57 For Work In Restricted Working Space, Add 5.02 For Installation Above 14', Add 2.51	51.57	6.70
26 05 33 13-0436 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper 60.11 For Work In Restricted Working Space, Add 6.28 For Installation Above 14', Add 3.14	60.11	8.37
26 05 33 13-0437 EA 1-1/2" To 2" Conduit, 24" Bonding Jumper 72.00 For Work In Restricted Working Space, Add 7.53 For Installation Above 14', Add 3.76	72.00	10.03
26 05 33 13-0438 EA 2-1/2" To 3" Conduit, 24" Bonding Jumper 100.56 For Work In Restricted Working Space, Add 10.04 For Installation Above 14', Add 5.02	100.56	13.38
26 05 33 13-0439 EA 3-1/2" To 4" Conduit, 24" Bonding Jumper 150.85 For Work In Restricted Working Space, Add 15.06 For Installation Above 14', Add 7.53	150.85	20.08
26 05 33 13-0440 EA 5" To 6" Conduit, 24" Bonding Jumper 271.91 For Work In Restricted Working Space, Add 20.08 For Installation Above 14', Add 10.04	271.91	26.76
26 05 33 13-0441 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0059)		
26 05 33 13-0442 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal 65.70 For Work In Restricted Working Space, Add 12.55 For Installation Above 14', Add 6.27 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 12.55	65.70	20.91



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0443	EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.22	15.06 7.53 15.06	25.10
26 05 33 13-0444	EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.59	17.57 8.78 17.57	29.28
26 05 33 13-0445	EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.67	20.08 10.04 20.08	33.46
26 05 33 13-0446	EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	141.15	22.59 11.29 22.59	37.64
26 05 33 13-0447	EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	168.98	25.09 12.55 25.09	41.83
26 05 33 13-0448	EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	232.95	30.11 15.06 30.11	50.19
26 05 33 13-0449	EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	279.06	35.13 17.57 35.13	58.56
26 05 33 13-0450	EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	600.93	40.15 20.07 40.15	66.92
26 05 33 13-0451	EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	691.15	45.17 22.58 45.17	75.29
26 05 33 13-0452 Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0059)				
26 05 33 13-0453	EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	11.04	3.01 1.50	5.02
26 05 33 13-0454	EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	15.49	4.27 2.13	7.11
26 05 33 13-0455	EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	20.33	5.52 2.76	9.20
26 05 33 13-0456	EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	23.35	6.27 3.14	10.45
26 05 33 13-0457	EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	28.16	7.53 3.77	12.55
26 05 33 13-0458	EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	33.00	8.53 4.27	14.22
26 05 33 13-0459	EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	42.01	9.53 4.77	15.90
26 05 33 13-0460	EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	49.26	10.79 5.39	17.98
26 05 33 13-0461	EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	57.28	11.79 5.90	19.66
26 05 33 13-0462	EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	60.55	12.55 6.27	20.91
26 05 33 13-0463 Rigid Galvanized Steel (RGS) Sealing Locknut (26 05 33 13-0059)				
26 05 33 13-0464	EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	2.56		0.83
26 05 33 13-0465	EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.54		1.25
26 05 33 13-0466	EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	5.88		2.09
26 05 33 13-0467	EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	8.51		2.93
26 05 33 13-0468	EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	10.21		3.35
26 05 33 13-0469	EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	12.00		3.77
26 05 33 13-0470 Rigid Galvanized Steel (RGS) Fire Stop Fittings (26 05 33 13-0059)				

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0471 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	120.47	10.15
For Work In Restricted Working Space, Add	7.61	
For Installation Above 14', Add	3.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.61	
26 05 33 13-0472 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	122.91	11.13
For Work In Restricted Working Space, Add	8.35	
For Installation Above 14', Add	4.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.35	
26 05 33 13-0473 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	146.85	12.21
For Work In Restricted Working Space, Add	9.14	
For Installation Above 14', Add	4.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 05 33 13-0474 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	161.22	13.38
For Work In Restricted Working Space, Add	10.05	
For Installation Above 14', Add	5.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.05	
26 05 33 13-0475 EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	183.82	15.06
For Work In Restricted Working Space, Add	11.29	
For Installation Above 14', Add	5.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.29	
26 05 33 13-0476 EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	268.92	16.73
For Work In Restricted Working Space, Add	12.56	
For Installation Above 14', Add	6.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.56	
26 05 33 13-0477 EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	311.26	22.33
For Work In Restricted Working Space, Add	16.74	
For Installation Above 14', Add	8.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.74	
26 05 33 13-0478 EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	345.15	24.51
For Work In Restricted Working Space, Add	18.39	
For Installation Above 14', Add	9.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.39	
26 05 33 13-0479 EA 3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	400.45	26.76
For Work In Restricted Working Space, Add	20.08	
For Installation Above 14', Add	10.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	
26 05 33 13-0480 EA 4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	451.38	30.11
For Work In Restricted Working Space, Add	22.59	
For Installation Above 14', Add	11.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.59	
26 05 33 13-0481 EA 5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	601.65	33.46
For Work In Restricted Working Space, Add	25.09	
For Installation Above 14', Add	12.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.09	
26 05 33 13-0482 EA 6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	745.69	37.14
For Work In Restricted Working Space, Add	27.86	
For Installation Above 14', Add	13.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.86	
26 05 33 13-0483 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0059)		
26 05 33 13-0484 EA 3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	13.66	6.49
For Work In Restricted Working Space, Add	3.89	
For Installation Above 14', Add	1.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-0485 EA 1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	15.07	6.90
For Work In Restricted Working Space, Add	4.14	
For Installation Above 14', Add	2.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.14	
26 05 33 13-0486 EA 1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	15.49	7.11
For Work In Restricted Working Space, Add	4.27	
For Installation Above 14', Add	2.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0487 EA 1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	17.93	7.32
For Work In Restricted Working Space, Add	4.39	
For Installation Above 14', Add	2.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 05 33 13-0488 EA 1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	18.36	7.53
For Work In Restricted Working Space, Add	4.52	
For Installation Above 14', Add	2.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-0489 EA 1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	19.20	7.95
For Work In Restricted Working Space, Add	4.77	
For Installation Above 14', Add	2.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-0490 EA 1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	20.72	8.37
For Work In Restricted Working Space, Add	5.02	
For Installation Above 14', Add	2.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0491 EA 1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	21.14	8.57
For Work In Restricted Working Space, Add	5.15	
For Installation Above 14', Add	2.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.15	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0492	EA	1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	21.97	8.99
		For Work In Restricted Working Space, Add	.....	5.39	
		For Installation Above 14', Add	.....	2.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.39	
26 05 33 13-0493	EA	1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	22.81	9.41
		For Work In Restricted Working Space, Add	.....	5.65	
		For Installation Above 14', Add	.....	2.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.65	
26 05 33 13-0494	EA	2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	27.59	9.41
		For Work In Restricted Working Space, Add	.....	5.65	
		For Installation Above 14', Add	.....	2.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.65	
26 05 33 13-0495	EA	2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	28.00	9.62
		For Work In Restricted Working Space, Add	.....	5.77	
		For Installation Above 14', Add	.....	2.88	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.77	
26 05 33 13-0496	EA	2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	28.85	10.03
		For Work In Restricted Working Space, Add	.....	6.02	
		For Installation Above 14', Add	.....	3.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	6.02	
26 05 33 13-0497	EA	2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	29.68	10.45
		For Work In Restricted Working Space, Add	.....	6.27	
		For Installation Above 14', Add	.....	3.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	6.27	
26 05 33 13-0498	EA	2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	31.77	11.50
		For Work In Restricted Working Space, Add	.....	6.90	
		For Installation Above 14', Add	.....	3.45	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	6.90	
26 05 33 13-0499	EA	2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	40.17	13.59
		For Work In Restricted Working Space, Add	.....	8.15	
		For Installation Above 14', Add	.....	4.08	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	8.15	
26 05 33 13-0500 Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0059)					
26 05 33 13-0501	EA	1/2" Rigid Galvanized Steel (RGS) Locknuts	.....	1.73	0.83
		For Work In Restricted Working Space, Add	.....	0.50	
		For Installation Above 14', Add	.....	0.25	
26 05 33 13-0502	EA	3/4" Rigid Galvanized Steel (RGS) Locknuts	.....	2.60	1.25
		For Work In Restricted Working Space, Add	.....	0.75	
		For Installation Above 14', Add	.....	0.38	
26 05 33 13-0503	EA	1" Rigid Galvanized Steel (RGS) Locknuts	.....	4.33	2.09
		For Work In Restricted Working Space, Add	.....	1.25	
		For Installation Above 14', Add	.....	0.63	
26 05 33 13-0504	EA	1-1/4" Rigid Galvanized Steel (RGS) Locknuts	.....	6.09	2.93
		For Work In Restricted Working Space, Add	.....	1.76	
		For Installation Above 14', Add	.....	0.88	
26 05 33 13-0505	EA	1-1/2" Rigid Galvanized Steel (RGS) Locknuts	.....	7.02	3.35
		For Work In Restricted Working Space, Add	.....	2.01	
		For Installation Above 14', Add	.....	1.01	
26 05 33 13-0506	EA	2" Rigid Galvanized Steel (RGS) Locknuts	.....	7.92	3.77
		For Work In Restricted Working Space, Add	.....	2.26	
		For Installation Above 14', Add	.....	1.13	
26 05 33 13-0507	EA	2-1/2" Rigid Galvanized Steel (RGS) Locknuts	.....	11.07	5.02
		For Work In Restricted Working Space, Add	.....	3.01	
		For Installation Above 14', Add	.....	1.50	
26 05 33 13-0508	EA	3" Rigid Galvanized Steel (RGS) Locknuts	.....	13.70	6.27
		For Work In Restricted Working Space, Add	.....	3.77	
		For Installation Above 14', Add	.....	1.88	
26 05 33 13-0509	EA	3-1/2" Rigid Galvanized Steel (RGS) Locknuts	.....	16.13	7.11
		For Work In Restricted Working Space, Add	.....	4.27	
		For Installation Above 14', Add	.....	2.13	
26 05 33 13-0510	EA	4" Rigid Galvanized Steel (RGS) Locknuts	.....	18.09	7.95
		For Work In Restricted Working Space, Add	.....	4.77	
		For Installation Above 14', Add	.....	2.39	
26 05 33 13-0511 Rigid Galvanized Steel (RGS) Grounding Locknuts (26 05 33 13-0059)					
26 05 33 13-0512	EA	1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	.....	2.62	0.83
		For Work In Restricted Working Space, Add	.....	0.50	
		For Installation Above 14', Add	.....	0.25	
26 05 33 13-0513	EA	3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts	.....	3.65	1.25
		For Work In Restricted Working Space, Add	.....	0.75	
		For Installation Above 14', Add	.....	0.38	
26 05 33 13-0514	EA	1" Rigid Galvanized Steel (RGS) Grounding Locknuts	.....	5.81	2.09
		For Work In Restricted Working Space, Add	.....	1.25	
		For Installation Above 14', Add	.....	0.63	
26 05 33 13-0515	EA	1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts	.....	8.12	2.93
		For Work In Restricted Working Space, Add	.....	1.76	
		For Installation Above 14', Add	.....	0.88	
26 05 33 13-0516	EA	1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	.....	9.19	3.35
		For Work In Restricted Working Space, Add	.....	2.01	
		For Installation Above 14', Add	.....	1.01	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0517	EA	2" Rigid Galvanized Steel (RGS) Grounding Locknuts	10.77	3.77
		For Work In Restricted Working Space, Add	2.26	
		For Installation Above 14', Add	1.13	
26 05 33 13-0518	EA	2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	16.06	5.02
		For Work In Restricted Working Space, Add	3.01	
		For Installation Above 14', Add	1.50	
26 05 33 13-0519	EA	3" Rigid Galvanized Steel (RGS) Grounding Locknuts	20.20	6.27
		For Work In Restricted Working Space, Add	3.77	
		For Installation Above 14', Add	1.88	
26 05 33 13-0520	EA	3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	26.64	7.11
		For Work In Restricted Working Space, Add	4.27	
		For Installation Above 14', Add	2.13	
26 05 33 13-0521	EA	4" Rigid Galvanized Steel (RGS) Grounding Locknuts	31.92	7.95
		For Work In Restricted Working Space, Add	4.77	
		For Installation Above 14', Add	2.39	
26 05 33 13-0522 Rigid Galvanized Steel (RGS) Insulated Ground Bushing (26 05 33 13-0059)				
26 05 33 13-0523	EA	1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	7.40	2.51
		For Work In Restricted Working Space, Add	1.51	
		For Installation Above 14', Add	0.75	
26 05 33 13-0524	EA	3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	9.28	3.35
		For Work In Restricted Working Space, Add	2.01	
		For Installation Above 14', Add	1.01	
26 05 33 13-0525	EA	1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	11.85	4.18
		For Work In Restricted Working Space, Add	2.51	
		For Installation Above 14', Add	1.26	
26 05 33 13-0526	EA	1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	17.26	6.70
		For Work In Restricted Working Space, Add	4.01	
		For Installation Above 14', Add	2.01	
26 05 33 13-0527	EA	1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	19.45	7.53
		For Work In Restricted Working Space, Add	4.52	
		For Installation Above 14', Add	2.26	
26 05 33 13-0528	EA	2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	22.11	8.37
		For Work In Restricted Working Space, Add	5.02	
		For Installation Above 14', Add	2.51	
26 05 33 13-0529	EA	2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	30.48	10.03
		For Work In Restricted Working Space, Add	6.02	
		For Installation Above 14', Add	3.01	
26 05 33 13-0530	EA	3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	37.01	12.55
		For Work In Restricted Working Space, Add	7.53	
		For Installation Above 14', Add	3.77	
26 05 33 13-0531	EA	3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	45.77	16.73
		For Work In Restricted Working Space, Add	10.04	
		For Installation Above 14', Add	5.02	
26 05 33 13-0532	EA	4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	55.74	20.91
		For Work In Restricted Working Space, Add	12.55	
		For Installation Above 14', Add	6.27	
26 05 33 13-0533 Rigid Galvanized Steel (RGS) Threadless Compression Connectors (26 05 33 13-0059)				
26 05 33 13-0534	EA	1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	16.73	7.53
		For Work In Restricted Working Space, Add	4.52	
		For Installation Above 14', Add	2.26	
26 05 33 13-0535	EA	3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	19.41	8.37
		For Work In Restricted Working Space, Add	5.02	
		For Installation Above 14', Add	2.51	
26 05 33 13-0536	EA	1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	25.10	10.45
		For Work In Restricted Working Space, Add	6.27	
		For Installation Above 14', Add	3.14	
26 05 33 13-0537	EA	1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	32.99	12.55
		For Work In Restricted Working Space, Add	7.53	
		For Installation Above 14', Add	3.77	
26 05 33 13-0538	EA	1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	44.39	16.73
		For Work In Restricted Working Space, Add	10.04	
		For Installation Above 14', Add	5.02	
26 05 33 13-0539	EA	2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	62.80	20.91
		For Work In Restricted Working Space, Add	12.55	
		For Installation Above 14', Add	6.27	
26 05 33 13-0540	EA	2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	98.56	25.10
		For Work In Restricted Working Space, Add	15.06	
		For Installation Above 14', Add	7.53	
26 05 33 13-0541	EA	3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	122.69	29.28
		For Work In Restricted Working Space, Add	17.57	
		For Installation Above 14', Add	8.78	
26 05 33 13-0542	EA	3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	154.91	35.55
		For Work In Restricted Working Space, Add	21.33	
		For Installation Above 14', Add	10.67	
26 05 33 13-0543	EA	4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	186.24	41.83
		For Work In Restricted Working Space, Add	25.09	
		For Installation Above 14', Add	12.55	
26 05 33 13-0544 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0059)				



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0545	EA	1/2" Rigid Galvanized Steel (RGS) Compression Coupling	23.60	10.45
		For Work In Restricted Working Space, Add	6.27	
		For Installation Above 14', Add	3.14	
26 05 33 13-0546	EA	3/4" Rigid Galvanized Steel (RGS) Compression Coupling	29.41	12.55
		For Work In Restricted Working Space, Add	7.53	
		For Installation Above 14', Add	3.77	
26 05 33 13-0547	EA	1" Rigid Galvanized Steel (RGS) Compression Coupling	40.98	16.73
		For Work In Restricted Working Space, Add	10.04	
		For Installation Above 14', Add	5.02	
26 05 33 13-0548	EA	1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling	52.97	20.91
		For Work In Restricted Working Space, Add	12.55	
		For Installation Above 14', Add	6.27	
26 05 33 13-0549	EA	1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	64.69	25.10
		For Work In Restricted Working Space, Add	15.06	
		For Installation Above 14', Add	7.53	
26 05 33 13-0550	EA	2" Rigid Galvanized Steel (RGS) Compression Connector	90.27	29.28
		For Work In Restricted Working Space, Add	17.57	
		For Installation Above 14', Add	8.78	
26 05 33 13-0551	EA	2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	133.72	33.46
		For Work In Restricted Working Space, Add	20.08	
		For Installation Above 14', Add	10.04	
26 05 33 13-0552	EA	3" Rigid Galvanized Steel (RGS) Compression Coupling	146.21	28.86
		For Work In Restricted Working Space, Add	17.31	
		For Installation Above 14', Add	8.66	
26 05 33 13-0553	EA	3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	204.34	43.91
		For Work In Restricted Working Space, Add	26.35	
		For Installation Above 14', Add	13.17	
26 05 33 13-0554	EA	4" Rigid Galvanized Steel (RGS) Compression Coupling	249.45	50.19
		For Work In Restricted Working Space, Add	30.11	
		For Installation Above 14', Add	15.06	
26 05 33 13-0555 Rigid Galvanized Steel (RGS) Knock Out Seal (26 05 33 13-0059)				
26 05 33 13-0556	EA	1/2" Snap-in Knock Out Seal	4.38	2.09
		For Work In Restricted Working Space, Add	1.25	
		For Installation Above 14', Add	0.63	
26 05 33 13-0557	EA	3/4" Snap-in Knock Out Seal	5.28	2.51
		For Work In Restricted Working Space, Add	1.51	
		For Installation Above 14', Add	0.75	
26 05 33 13-0558	EA	1" Snap-in Knock Out Seal	6.27	2.93
		For Work In Restricted Working Space, Add	1.76	
		For Installation Above 14', Add	0.88	
26 05 33 13-0559	EA	1-1/4" Snap-in Knock Out Seal	8.08	3.77
		For Work In Restricted Working Space, Add	2.26	
		For Installation Above 14', Add	1.13	
26 05 33 13-0560	EA	1-1/2" Snap-in Knock Out Seal	9.14	4.18
		For Work In Restricted Working Space, Add	2.51	
		For Installation Above 14', Add	1.26	
26 05 33 13-0561	EA	2" Snap-in Knock Out Seal	11.11	5.02
		For Work In Restricted Working Space, Add	3.01	
		For Installation Above 14', Add	1.50	
26 05 33 13-0562	EA	2-1/2" 3-Piece Knock Out Seal	15.07	6.27
		For Work In Restricted Working Space, Add	3.77	
		For Installation Above 14', Add	1.88	
26 05 33 13-0563	EA	3" 3-Piece Knock Out Seal	17.42	7.11
		For Work In Restricted Working Space, Add	4.27	
		For Installation Above 14', Add	2.13	
26 05 33 13-0564	EA	3-1/2" 3-Piece Knock Out Seal	19.62	7.95
		For Work In Restricted Working Space, Add	4.77	
		For Installation Above 14', Add	2.39	
26 05 33 13-0565	EA	4" 3-Piece Knock Out Seal	22.49	8.78
		For Work In Restricted Working Space, Add	5.27	
		For Installation Above 14', Add	2.64	
26 05 33 13-0566 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0059)				
26 05 33 13-0567	EA	1/2" Rigid Galvanized Steel (RGS) Chase Nipple	10.34	5.02
		For Work In Restricted Working Space, Add	3.01	
		For Installation Above 14', Add	1.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.01	
26 05 33 13-0568	EA	3/4" Rigid Galvanized Steel (RGS) Chase Nipple	12.23	5.85
		For Work In Restricted Working Space, Add	3.51	
		For Installation Above 14', Add	1.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.51	
26 05 33 13-0569	EA	1" Rigid Galvanized Steel (RGS) Chase Nipple	15.35	7.11
		For Work In Restricted Working Space, Add	4.27	
		For Installation Above 14', Add	2.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0570	EA	1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple	18.69	8.37
		For Work In Restricted Working Space, Add	5.02	
		For Installation Above 14', Add	2.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0571	EA		1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	23.43	10.45
			For Work In Restricted Working Space, Add	6.27	
			For Installation Above 14', Add	3.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0572	EA		2" Rigid Galvanized Steel (RGS) Chase Nipple.....	29.18	12.55
			For Work In Restricted Working Space, Add	7.53	
			For Installation Above 14', Add	3.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.53	
26 05 33 13-0573	EA		2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	37.04	14.63
			For Work In Restricted Working Space, Add	8.78	
			For Installation Above 14', Add	4.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	
26 05 33 13-0574	EA		3" Rigid Galvanized Steel (RGS) Chase Nipple.....	41.42	16.73
			For Work In Restricted Working Space, Add	10.04	
			For Installation Above 14', Add	5.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	
26 05 33 13-0575	EA		3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	51.72	18.82
			For Work In Restricted Working Space, Add	11.29	
			For Installation Above 14', Add	5.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.29	
26 05 33 13-0576	EA		4" Rigid Galvanized Steel (RGS) Chase Nipple.....	71.33	20.91
			For Work In Restricted Working Space, Add	12.55	
			For Installation Above 14', Add	6.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	
26 05 33 13-0577 Rigid Galvanized Steel (RGS) Pulling Elbow (26 05 33 13-0059)					
26 05 33 13-0578	EA		1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	20.41	7.53
			For Work In Restricted Working Space, Add	4.52	
			For Installation Above 14', Add	2.26	
26 05 33 13-0579	EA		3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	23.71	8.78
			For Work In Restricted Working Space, Add	5.27	
			For Installation Above 14', Add	2.64	
26 05 33 13-0580	EA		1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	30.28	10.03
			For Work In Restricted Working Space, Add	6.02	
			For Installation Above 14', Add	3.01	
26 05 33 13-0581	EA		1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	38.83	12.55
			For Work In Restricted Working Space, Add	7.53	
			For Installation Above 14', Add	3.77	
26 05 33 13-0582	EA		1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	51.91	15.06
			For Work In Restricted Working Space, Add	9.03	
			For Installation Above 14', Add	4.52	
26 05 33 13-0583	EA		2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	69.63	17.57
			For Work In Restricted Working Space, Add	10.54	
			For Installation Above 14', Add	5.27	
26 05 33 13-0584	EA		2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	97.11	20.08
			For Work In Restricted Working Space, Add	12.05	
			For Installation Above 14', Add	6.02	
26 05 33 13-0585	EA		3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	170.85	25.10
			For Work In Restricted Working Space, Add	15.06	
			For Installation Above 14', Add	7.53	
26 05 33 13-0586 Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0058)					
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.					
26 05 33 13-0587 Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0586)					
Note: Includes field bending conduit up to and including 1".					
26 05 33 13-0588	LF		1/2" Electrical Metallic Tubing (EMT) Conduit.....	4.18	1.50
			For >250 To 500, Deduct	-0.02	
			For >500 To 1,000, Deduct	-0.22	
			For >1,000, Deduct	-0.32	
			For Installation In Metal Stud Wall, Add	0.38	
			For Installation In Wood Stud Wall (Includes Drilling), Add	0.94	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.57	
			For Work In Restricted Working Space, Add	1.13	
			For Installation Above 14', Add	0.57	
			For Factory Applied Color Coating, Add	0.12	
26 05 33 13-0589	LF		3/4" Electrical Metallic Tubing (EMT) Conduit.....	4.82	1.67
			For >250 To 500, Deduct	-0.03	
			For >500 To 1,000, Deduct	-0.26	
			For >1,000, Deduct	-0.38	
			For Installation In Metal Stud Wall, Add	0.42	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.05	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.63	
			For Work In Restricted Working Space, Add	1.25	
			For Installation Above 14', Add	0.63	
			For Factory Applied Color Coating, Add	0.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0590	LF	1"	Electrical Metallic Tubing (EMT) Conduit.....	5.67	1.84
			For >250 To 500, Deduct	-0.05	
			For >500 To 1,000, Deduct	-0.31	
			For >1,000, Deduct	-0.45	
			For Installation In Metal Stud Wall, Add	0.46	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.15	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.69	
			For Work In Restricted Working Space, Add	1.38	
			For Installation Above 14', Add	0.69	
			For Factory Applied Color Coating, Add	0.32	
26 05 33 13-0591	LF	1-1/4"	Electrical Metallic Tubing (EMT) Conduit	6.86	2.07
			For >250 To 500, Deduct	-0.08	
			For >500 To 1,000, Deduct	-0.39	
			For >1,000, Deduct	-0.56	
			For Installation In Metal Stud Wall, Add	0.52	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.30	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.78	
			For Work In Restricted Working Space, Add	1.55	
			For Installation Above 14', Add	0.78	
			For Factory Applied Color Coating, Add	0.50	
26 05 33 13-0592	LF	1-1/2"	Electrical Metallic Tubing (EMT) Conduit	7.95	2.35
			For >250 To 500, Deduct	-0.11	
			For >500 To 1,000, Deduct	-0.45	
			For >1,000, Deduct	-0.65	
			For Installation In Metal Stud Wall, Add	0.59	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.46	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.88	
			For Work In Restricted Working Space, Add	1.76	
			For Installation Above 14', Add	0.88	
			For Factory Applied Color Coating, Add	0.63	
26 05 33 13-0593	LF	2"	Electrical Metallic Tubing (EMT) Conduit.....	9.19	2.68
			For >250 To 500, Deduct	-0.12	
			For >500 To 1,000, Deduct	-0.52	
			For >1,000, Deduct	-0.75	
			For Installation In Metal Stud Wall, Add	0.67	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.68	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.01	
			For Work In Restricted Working Space, Add	2.01	
			For Installation Above 14', Add	1.01	
			For Factory Applied Color Coating, Add	0.75	
26 05 33 13-0594	LF	2-1/2"	Electrical Metallic Tubing (EMT) Conduit	11.63	3.18
			For >250 To 500, Deduct	-0.18	
			For >500 To 1,000, Deduct	-0.67	
			For >1,000, Deduct	-0.96	
			For Installation In Metal Stud Wall, Add	0.80	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.99	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.19	
			For Work In Restricted Working Space, Add	2.39	
			For Installation Above 14', Add	1.19	
			For Factory Applied Color Coating, Add	1.10	
26 05 33 13-0595	LF	3"	Electrical Metallic Tubing (EMT) Conduit.....	13.81	3.68
			For >250 To 500, Deduct	-0.23	
			For >500 To 1,000, Deduct	-0.81	
			For >1,000, Deduct	-1.15	
			For Installation In Metal Stud Wall, Add	0.92	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.30	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.38	
			For Work In Restricted Working Space, Add	2.76	
			For Installation Above 14', Add	1.38	
			For Factory Applied Color Coating, Add	1.38	
26 05 33 13-0596	LF	3-1/2"	Electrical Metallic Tubing (EMT) Conduit	17.04	4.35
			For >250 To 500, Deduct	-0.31	
			For >500 To 1,000, Deduct	-1.01	
			For >1,000, Deduct	-1.43	
			For Installation In Metal Stud Wall, Add	1.09	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.72	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.63	
			For Work In Restricted Working Space, Add	3.26	
			For Installation Above 14', Add	1.63	
			For Factory Applied Color Coating, Add	1.85	
26 05 33 13-0597	LF	4"	Electrical Metallic Tubing (EMT) Conduit.....	22.55	6.50
			For >250 To 500, Deduct	-0.32	
			For >500 To 1,000, Deduct	-1.29	
			For >1,000, Deduct	-1.85	
			For Installation In Metal Stud Wall, Add	1.62	
			For Installation In Wood Stud Wall (Includes Drilling), Add	4.06	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.44	
			For Work In Restricted Working Space, Add	4.87	
			For Installation Above 14', Add	2.44	
			For Factory Applied Color Coating, Add	1.89	
26 05 33 13-0598			Electrical Metallic Tubing (EMT) 90 Degree Elbows (26 05 33 13-0586)		
			See CSI section 26 05 33 13-2394 for conduit field bending.		
26 05 33 13-0599			Electrical Metallic Tubing (EMT) Set Screw Couplings (26 05 33 13-0586)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0600 EA 1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	4.31	2.00
For Work In Restricted Working Space, Add	1.25	
For Installation Above 14', Add	0.63	
26 05 33 13-0601 EA 3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	5.22	2.00
For Work In Restricted Working Space, Add	1.51	
For Installation Above 14', Add	0.75	
26 05 33 13-0602 EA 1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	6.15	2.35
For Work In Restricted Working Space, Add	1.76	
For Installation Above 14', Add	0.88	
26 05 33 13-0603 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	8.19	3.01
For Work In Restricted Working Space, Add	2.26	
For Installation Above 14', Add	1.13	
26 05 33 13-0604 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	10.07	3.68
For Work In Restricted Working Space, Add	2.76	
For Installation Above 14', Add	1.38	
26 05 33 13-0605 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	13.70	5.02
For Work In Restricted Working Space, Add	3.77	
For Installation Above 14', Add	1.88	
26 05 33 13-0606 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	18.75	6.70
For Work In Restricted Working Space, Add	5.02	
For Installation Above 14', Add	2.51	
26 05 33 13-0607 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	24.05	7.70
For Work In Restricted Working Space, Add	6.27	
For Installation Above 14', Add	3.14	
26 05 33 13-0608 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	27.59	8.37
For Work In Restricted Working Space, Add	7.53	
For Installation Above 14', Add	3.77	
26 05 33 13-0609 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	80.66	23.55
For Work In Restricted Working Space, Add	22.87	
For Installation Above 14', Add	11.43	
26 05 33 13-0610 Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0586)		
26 05 33 13-0611 EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling.....	5.35	2.00
For Work In Restricted Working Space, Add	1.51	
For Installation Above 14', Add	0.75	
26 05 33 13-0612 EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	6.21	2.35
For Work In Restricted Working Space, Add	1.76	
For Installation Above 14', Add	0.88	
26 05 33 13-0613 EA 1" Electrical Metallic Tubing (EMT) Compression Coupling.....	8.88	3.35
For Work In Restricted Working Space, Add	2.51	
For Installation Above 14', Add	1.26	
26 05 33 13-0614 EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	11.09	4.02
For Work In Restricted Working Space, Add	3.01	
For Installation Above 14', Add	1.50	
26 05 33 13-0615 EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	13.20	4.68
For Work In Restricted Working Space, Add	3.51	
For Installation Above 14', Add	1.76	
26 05 33 13-0616 EA 2" Electrical Metallic Tubing (EMT) Compression Coupling.....	17.41	6.02
For Work In Restricted Working Space, Add	4.52	
For Installation Above 14', Add	2.26	
26 05 33 13-0617 EA 2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	26.21	8.03
For Work In Restricted Working Space, Add	6.02	
For Installation Above 14', Add	3.01	
26 05 33 13-0618 EA 3" Electrical Metallic Tubing (EMT) Compression Coupling.....	30.39	9.37
For Work In Restricted Working Space, Add	7.03	
For Installation Above 14', Add	3.51	
26 05 33 13-0619 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	38.00	11.71
For Work In Restricted Working Space, Add	8.78	
For Installation Above 14', Add	4.39	
26 05 33 13-0620 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling.....	48.76	15.06
For Work In Restricted Working Space, Add	11.29	
For Installation Above 14', Add	5.65	
26 05 33 13-0621 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw (26 05 33 13-0586)		
26 05 33 13-0622 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	4.29	1.67
For Work In Restricted Working Space, Add	1.25	
For Installation Above 14', Add	0.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.25	
26 05 33 13-0623 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	5.19	2.00
For Work In Restricted Working Space, Add	1.51	
For Installation Above 14', Add	0.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.51	
26 05 33 13-0624 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	6.15	2.35
For Work In Restricted Working Space, Add	1.76	
For Installation Above 14', Add	0.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.76	
26 05 33 13-0625 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	8.92	3.35
For Work In Restricted Working Space, Add	2.51	
For Installation Above 14', Add	1.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.51	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0626	EA	1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.83 3.01 1.50 3.01	4.02
26 05 33 13-0627	EA	2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.74 3.77 1.88 3.77	5.02
26 05 33 13-0628	EA	2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.04 5.02 2.51 5.02	6.70
26 05 33 13-0629	EA	3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.96 6.27 3.14 6.27	8.37
26 05 33 13-0630	EA	3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.65 7.53 3.77 7.53	10.03
26 05 33 13-0631	EA	4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.55 8.78 4.39 8.78	11.71
26 05 33 13-0632		Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw (26 05 33 13-0586)		
26 05 33 13-0633	EA	1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.78 1.68 0.84 1.68	2.26
26 05 33 13-0634	EA	3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38 1.83 0.92 1.83	2.43
26 05 33 13-0635	EA	1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.95 2.24 1.12 2.24	3.01
26 05 33 13-0636	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.37 2.86 1.43 2.86	3.85
26 05 33 13-0637	EA	1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.25 3.34 1.67 3.34	4.43
26 05 33 13-0638	EA	2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.91 4.01 2.01 4.01	5.35
26 05 33 13-0639	EA	2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.59 5.57 2.79 5.57	7.45
26 05 33 13-0640	EA	3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.76 7.43 3.71 7.43	9.87
26 05 33 13-0641	EA	3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.37 9.56 4.78 9.56	12.71
26 05 33 13-0642	EA	4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.08 12.55 6.27 12.55	16.73
26 05 33 13-0643		Electrical Metallic Tubing (EMT) Straight Box Compression Connectors (26 05 33 13-0586)		
26 05 33 13-0644	EA	1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.19 1.51 0.75 1.51	2.00
26 05 33 13-0645	EA	3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.11 1.76 0.88 1.76	2.35
26 05 33 13-0646	EA	1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.74 2.51 1.26 2.51	3.35

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0647 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	10.73	4.02
For Work In Restricted Working Space, Add	3.01	
For Installation Above 14', Add	1.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.01	
26 05 33 13-0648 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	12.69	4.68
For Work In Restricted Working Space, Add	3.51	
For Installation Above 14', Add	1.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.51	
26 05 33 13-0649 EA 2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	16.48	6.02
For Work In Restricted Working Space, Add	4.52	
For Installation Above 14', Add	2.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-0650 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	24.37	8.03
For Work In Restricted Working Space, Add	6.02	
For Installation Above 14', Add	3.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.02	
26 05 33 13-0651 EA 3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	30.71	10.03
For Work In Restricted Working Space, Add	7.53	
For Installation Above 14', Add	3.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.53	
26 05 33 13-0652 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	37.92	11.71
For Work In Restricted Working Space, Add	8.78	
For Installation Above 14', Add	4.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	
26 05 33 13-0653 EA 4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	42.84	13.38
For Work In Restricted Working Space, Add	10.04	
For Installation Above 14', Add	5.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	

26 05 33 13-0654 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors (26 05 33 13-0586)

26 05 33 13-0655 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	5.89	2.26
For Work In Restricted Working Space, Add	1.68	
For Installation Above 14', Add	0.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.68	
26 05 33 13-0656 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	6.51	2.43
For Work In Restricted Working Space, Add	1.83	
For Installation Above 14', Add	0.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.83	
26 05 33 13-0657 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	8.06	3.01
For Work In Restricted Working Space, Add	2.24	
For Installation Above 14', Add	1.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.24	
26 05 33 13-0658 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	10.66	3.85
For Work In Restricted Working Space, Add	2.86	
For Installation Above 14', Add	1.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.86	
26 05 33 13-0659 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	12.73	4.43
For Work In Restricted Working Space, Add	3.34	
For Installation Above 14', Add	1.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.34	
26 05 33 13-0660 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	15.62	5.35
For Work In Restricted Working Space, Add	4.01	
For Installation Above 14', Add	2.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.01	
26 05 33 13-0661 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	26.17	7.45
For Work In Restricted Working Space, Add	5.57	
For Installation Above 14', Add	2.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-0662 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	35.10	9.87
For Work In Restricted Working Space, Add	7.43	
For Installation Above 14', Add	3.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0663 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	46.99	12.71
For Work In Restricted Working Space, Add	9.56	
For Installation Above 14', Add	4.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.56	
26 05 33 13-0664 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	59.51	16.73
For Work In Restricted Working Space, Add	12.55	
For Installation Above 14', Add	6.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	

26 05 33 13-0665 Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0586)

Note: Excludes jumper.

26 05 33 13-0666 EA 1/2" Electrical Metallic Tubing (EMT) Expansion Coupling.....	39.82	11.13
For Work In Restricted Working Space, Add	8.35	
For Installation Above 14', Add	4.17	
26 05 33 13-0667 EA 3/4" Electrical Metallic Tubing (EMT) Expansion Coupling.....	48.06	13.47
For Work In Restricted Working Space, Add	10.13	
For Installation Above 14', Add	5.06	
26 05 33 13-0668 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling.....	59.26	16.90
For Work In Restricted Working Space, Add	12.65	
For Installation Above 14', Add	6.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0669 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	75.82 15.57 7.78	20.75
26 05 33 13-0670 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	93.10 18.26 9.13	24.34
26 05 33 13-0671 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	116.03 22.23 11.12	29.61
26 05 33 13-0672 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	207.41 28.55 14.28	38.06
26 05 33 13-0673 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	252.14 33.39 16.69	44.50
26 05 33 13-0674 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	304.98 36.40 18.20	48.51
26 05 33 13-0675 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	330.88 40.16 20.08	53.53
26 05 33 13-0676 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters (26 05 33 13-0586)		
26 05 33 13-0677 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15 2.23 1.11 2.23	3.01
26 05 33 13-0678 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54 2.23 1.11 2.23	3.01
26 05 33 13-0679 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.53 2.48 1.24 2.48	3.26
26 05 33 13-0680 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.03 2.82 1.41 2.82	3.77
26 05 33 13-0681 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08 3.41 1.70 3.41	4.52
26 05 33 13-0682 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.16 3.89 1.95 3.89	5.18
26 05 33 13-0683 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.45 4.87 2.43 4.87	6.53
26 05 33 13-0684 Electrical Metallic Tubing (EMT) Pulling Elbows (26 05 33 13-0586)		
26 05 33 13-0685 EA 1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.94 4.52 2.26 4.52	7.53
26 05 33 13-0686 EA 3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.75 5.27 2.64 5.27	8.78
26 05 33 13-0687 EA 1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.97 6.02 3.01 6.02	10.03
26 05 33 13-0688 EA 1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.46 7.53 3.77 7.53	12.55
26 05 33 13-0689 Intermediate Metal Conduit (IMC) (26 05 33 13-0058) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0690 Intermediate Metal Conduit (IMC) Conduit (26 05 33 13-0689) Note: Includes field bending conduit up to 1".		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0691 LF 1/2" Intermediate Metal Conduit (IMC) Conduit	5.31	1.67
For >250 To 500, Deduct	-0.06	
For >500 To 1,000, Deduct	-0.08	
For >1,000, Deduct	-0.11	
For Installation In Metal Stub Wall, Add	0.42	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.05	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.63	
For Work In Restricted Working Space, Add	1.25	
For Installation Above 14', Add	0.63	
26 05 33 13-0692 LF 3/4" Intermediate Metal Conduit (IMC) Conduit	5.94	1.84
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.10	
For >1,000, Deduct	-0.13	
For Installation In Metal Stub Wall, Add	0.46	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.15	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.69	
For Work In Restricted Working Space, Add	1.38	
For Installation Above 14', Add	0.69	
26 05 33 13-0693 LF 1" Intermediate Metal Conduit (IMC) Conduit	7.10	2.00
For >250 To 500, Deduct	-0.10	
For >500 To 1,000, Deduct	-0.16	
For >1,000, Deduct	-0.21	
For Installation In Metal Stub Wall, Add	0.50	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.26	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.75	
For Work In Restricted Working Space, Add	1.51	
For Installation Above 14', Add	0.75	
26 05 33 13-0694 LF 1-1/4" Intermediate Metal Conduit (IMC) Conduit	8.48	4.02
For >250 To 500, Deduct	-0.13	
For >500 To 1,000, Deduct	-0.20	
For >1,000, Deduct	-0.26	
For Installation In Metal Stub Wall, Add	0.59	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.46	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.88	
For Work In Restricted Working Space, Add	1.76	
For Installation Above 14', Add	0.88	
26 05 33 13-0695 LF 1-1/2" Intermediate Metal Conduit (IMC) Conduit	9.80	2.68
For >250 To 500, Deduct	-0.16	
For >500 To 1,000, Deduct	-0.23	
For >1,000, Deduct	-0.31	
For Installation In Metal Stub Wall, Add	0.67	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.68	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.01	
For Work In Restricted Working Space, Add	2.01	
For Installation Above 14', Add	1.01	
26 05 33 13-0696 LF 2" Intermediate Metal Conduit (IMC) Conduit	11.74	3.01
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.32	
For >1,000, Deduct	-0.42	
For Installation In Metal Stub Wall, Add	0.75	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.88	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.13	
For Work In Restricted Working Space, Add	2.26	
For Installation Above 14', Add	1.13	
26 05 33 13-0697 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit	19.36	4.02
For >250 To 500, Deduct	-0.47	
For >500 To 1,000, Deduct	-0.70	
For >1,000, Deduct	-0.93	
For Installation In Metal Stub Wall, Add	1.00	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.51	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.50	
For Work In Restricted Working Space, Add	3.01	
For Installation Above 14', Add	1.50	
26 05 33 13-0698 LF 3" Intermediate Metal Conduit (IMC) Conduit	24.03	5.02
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-0.86	
For >1,000, Deduct	-1.15	
For Installation In Metal Stub Wall, Add	1.26	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.14	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.88	
For Work In Restricted Working Space, Add	3.77	
For Installation Above 14', Add	1.88	
26 05 33 13-0699 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit	28.36	6.02
For >250 To 500, Deduct	-0.67	
For >500 To 1,000, Deduct	-1.00	
For >1,000, Deduct	-1.33	
For Installation In Metal Stub Wall, Add	1.51	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.77	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.26	
For Work In Restricted Working Space, Add	4.52	
For Installation Above 14', Add	2.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0700	LF		4" Intermediate Metal Conduit (IMC) Conduit For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stub Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Installation Above 14', Add	33.22 -0.78 -1.17 -1.57 1.76 4.39 2.64 5.27 2.64	7.03
26 05 33 13-0701			Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0689) See CSI section 26 05 33 13-2394 for conduit field bending.		
26 05 33 13-0702	EA		1" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	41.04 9.45 4.72	12.63
26 05 33 13-0703	EA		1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	49.96 10.97 5.49	14.63
26 05 33 13-0704	EA		1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	58.91 12.59 6.30	16.81
26 05 33 13-0705	EA		2" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	70.55 13.85 6.93	18.48
26 05 33 13-0706	EA		2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	99.11 17.31 8.66	23.08
26 05 33 13-0707	EA		3" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	141.99 23.59 11.79	31.45
26 05 33 13-0708	EA		3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	200.56 26.60 13.30	35.46
26 05 33 13-0709	EA		4" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	245.19 34.62 17.31	46.18
26 05 33 13-0710			Intermediate Metal Conduit (IMC) Bushing Sets With Locknut (26 05 33 13-0689)		
26 05 33 13-0711	EA		1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.29 3.26	4.35
26 05 33 13-0712	EA		3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.26 3.77	0.50
26 05 33 13-0713	EA		1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08 4.77	6.35
26 05 33 13-0714	EA		1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.81 5.77	7.70
26 05 33 13-0715	EA		1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.15 6.27	8.37
26 05 33 13-0716	EA		2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.63 7.78	10.37
26 05 33 13-0717	EA		2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.37 12.55	16.73
26 05 33 13-0718	EA		3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.14 17.06	22.75
26 05 33 13-0719	EA		3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.31 20.33	27.10
26 05 33 13-0720	EA		4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.57 23.59	31.45
26 05 33 13-0721			Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings (26 05 33 13-0689) Note: 3-Piece coupling.		
26 05 33 13-0722	EA		1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.71 10.05 5.03 10.05	13.38
26 05 33 13-0723	EA		3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.53 11.22 5.61 11.22	14.97
26 05 33 13-0724	EA		1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.63 12.50 6.25 12.50	16.65
26 05 33 13-0725	EA		1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.25 13.67 6.84 13.67	18.23
26 05 33 13-0726	EA		1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.27 14.96 7.48 14.96	19.91

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0727	EA	2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	90.83	21.58
		For Work In Restricted Working Space, Add	16.20	
		For Installation Above 14', Add	8.10	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.20	
26 05 33 13-0728	EA	2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	145.70	26.76
		For Work In Restricted Working Space, Add	20.08	
		For Installation Above 14', Add	10.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	
26 05 33 13-0729	EA	3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	203.77	33.46
		For Work In Restricted Working Space, Add	25.09	
		For Installation Above 14', Add	12.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.09	
26 05 33 13-0730	EA	3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	293.41	40.15
		For Work In Restricted Working Space, Add	30.12	
		For Installation Above 14', Add	15.06	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.12	
26 05 33 13-0731	EA	4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	337.18	43.50
		For Work In Restricted Working Space, Add	32.62	
		For Installation Above 14', Add	16.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.62	
26 05 33 13-0732 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0689)				
26 05 33 13-0733	EA	1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	20.23	6.70
		For Work In Restricted Working Space, Add	5.02	
		For Installation Above 14', Add	2.51	
26 05 33 13-0734	EA	3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	22.54	7.36
		For Work In Restricted Working Space, Add	5.52	
		For Installation Above 14', Add	2.76	
26 05 33 13-0735	EA	1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	25.84	8.37
		For Work In Restricted Working Space, Add	6.28	
		For Installation Above 14', Add	3.14	
26 05 33 13-0736	EA	1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	29.08	9.03
		For Work In Restricted Working Space, Add	6.77	
		For Installation Above 14', Add	3.39	
26 05 33 13-0737	EA	1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	34.16	10.03
		For Work In Restricted Working Space, Add	7.53	
		For Installation Above 14', Add	3.77	
26 05 33 13-0738	EA	2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	40.99	11.05
		For Work In Restricted Working Space, Add	8.28	
		For Installation Above 14', Add	4.14	
26 05 33 13-0739	EA	2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	54.93	13.38
		For Work In Restricted Working Space, Add	10.04	
		For Installation Above 14', Add	5.02	
26 05 33 13-0740	EA	3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	68.02	16.73
		For Work In Restricted Working Space, Add	12.55	
		For Installation Above 14', Add	6.27	
26 05 33 13-0741	EA	3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	81.70	20.08
		For Work In Restricted Working Space, Add	15.06	
		For Installation Above 14', Add	7.53	
26 05 33 13-0742	EA	4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	91.80	21.75
		For Work In Restricted Working Space, Add	16.31	
		For Installation Above 14', Add	8.16	
26 05 33 13-0743 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs (26 05 33 13-0689)				
26 05 33 13-0744	EA	1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	18.19	6.70
		For Work In Restricted Working Space, Add	5.02	
		For Installation Above 14', Add	2.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0745	EA	3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	23.10	8.37
		For Work In Restricted Working Space, Add	6.27	
		For Installation Above 14', Add	3.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-0746	EA	1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	28.33	10.03
		For Work In Restricted Working Space, Add	7.53	
		For Installation Above 14', Add	3.77	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.53	
26 05 33 13-0747	EA	1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	33.85	11.71
		For Work In Restricted Working Space, Add	8.78	
		For Installation Above 14', Add	4.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0748	EA	1-1/2"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.35 10.04 5.02 10.04	13.38
26 05 33 13-0749	EA	2"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15 11.29 5.65 11.29	15.06
26 05 33 13-0750	EA	2-1/2"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.09 12.55 6.27 12.55	16.73
26 05 33 13-0751	EA	3"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.21 13.80 6.90 13.80	18.40
26 05 33 13-0752	EA	3-1/2"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.27 16.31 8.16 16.31	21.75
26 05 33 13-0753	EA	4"	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.96 17.57 8.78 17.57	23.42
26 05 33 13-0754 Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0689)					
26 05 33 13-0755	EA	1/2"	Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	96.49 10.04 5.02	13.38
26 05 33 13-0756	EA	3/4"	Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	106.96 11.29 5.65	15.06
26 05 33 13-0757	EA	1"	Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	118.87 12.55 6.27	16.73
26 05 33 13-0758	EA	1-1/4"	Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	142.12 13.80 6.90	18.40
26 05 33 13-0759	EA	1-1/2"	Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	172.09 15.06 7.53	20.08
26 05 33 13-0760	EA	2"	Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	222.48 16.31 8.16	21.75
26 05 33 13-0761	EA	2-1/2"	Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	330.97 20.08 10.04	26.76
26 05 33 13-0762	EA	3"	Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	398.94 25.09 12.55	33.46
26 05 33 13-0763	EA	3-1/2"	Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	550.82 30.11 15.06	40.15
26 05 33 13-0764	EA	4"	Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	634.63 32.62 16.31	43.50
26 05 33 13-0765 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0689)					
26 05 33 13-0766	EA	1/2"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.08 12.55 6.27 12.55	20.91
26 05 33 13-0767	EA	3/4"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.67 15.06 7.53 15.06	25.10
26 05 33 13-0768	EA	1"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.16 17.57 8.78 17.57	29.28
26 05 33 13-0769	EA	1-1/4"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.37 20.08 10.04 20.08	33.46
26 05 33 13-0770	EA	1-1/2"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.21 22.59 11.29 22.59	37.64
26 05 33 13-0771	EA	2"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.34 25.09 12.55 25.09	41.83

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0772	EA	2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	235.08 30.11 15.06 30.11	50.19
26 05 33 13-0773	EA	3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	281.66 35.13 17.57 35.13	58.56
26 05 33 13-0774	EA	3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	608.42 40.15 20.07 40.15	66.92
26 05 33 13-0775	EA	4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	699.83 45.17 22.58 45.17	75.29
26 05 33 13-0776 Intermediate Metal Conduit (IMC) Threaded Couplings (26 05 33 13-0689)				
26 05 33 13-0777	EA	1/2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	10.86 3.01 1.50	4.02
26 05 33 13-0778	EA	3/4" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	15.22 4.27 2.13	5.68
26 05 33 13-0779	EA	1" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	19.89 5.52 2.76	7.36
26 05 33 13-0780	EA	1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	22.79 6.28 3.14	8.37
26 05 33 13-0781	EA	1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	27.44 7.52 3.76	10.03
26 05 33 13-0782	EA	2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	31.56 8.54 4.27	11.38
26 05 33 13-0783	EA	2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	38.66 9.53 4.77	12.71
26 05 33 13-0784	EA	3" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	45.38 10.79 5.40	14.38
26 05 33 13-0785	EA	3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	51.90 11.80 5.90	15.73
26 05 33 13-0786	EA	4" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	54.49 12.54 6.27	16.73
26 05 33 13-0787 Intermediate Metal Conduit (IMC) Reducer Bushings (26 05 33 13-0689)				
26 05 33 13-0788	EA	1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add	5.11 1.25 0.63	1.67
26 05 33 13-0789	EA	3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add	5.64 1.25 0.63	1.67
26 05 33 13-0790 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0058)				
Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.				
26 05 33 13-0791 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0790)				
Note: Includes field bending for conduit up to 1".				
26 05 33 13-0792	LF	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation Above 14', Add For Work In Restricted Working Space, Add	10.78 -0.39 -0.66 -0.93 0.88 1.76	2.35
26 05 33 13-0793	LF	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation Above 14', Add For Work In Restricted Working Space, Add	12.41 -0.45 -0.76 -1.07 1.01 2.01	2.68



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0794	LF		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	15.77	3.35
			For >250 To 500, Deduct	-0.58	
			For >500 To 1,000, Deduct	-0.97	
			For >1,000, Deduct	-1.37	
			For Installation Above 14', Add	1.26	
			For Work In Restricted Working Space, Add	2.51	
26 05 33 13-0795	LF		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	19.41	4.02
			For >250 To 500, Deduct	-0.72	
			For >500 To 1,000, Deduct	-1.21	
			For >1,000, Deduct	-1.69	
			For Installation Above 14', Add	1.50	
			For Work In Restricted Working Space, Add	3.01	
26 05 33 13-0796	LF		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	23.95	5.02
			For >250 To 500, Deduct	-0.88	
			For >500 To 1,000, Deduct	-1.48	
			For >1,000, Deduct	-2.08	
			For Installation Above 14', Add	1.88	
			For Work In Restricted Working Space, Add	3.77	
26 05 33 13-0797	LF		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	29.92	6.02
			For >250 To 500, Deduct	-1.12	
			For >500 To 1,000, Deduct	-1.87	
			For >1,000, Deduct	-2.62	
			For Installation Above 14', Add	2.26	
			For Work In Restricted Working Space, Add	4.52	
26 05 33 13-0798	LF		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	40.10	7.03
			For >250 To 500, Deduct	-1.57	
			For >500 To 1,000, Deduct	-2.57	
			For >1,000, Deduct	-3.57	
			For Installation Above 14', Add	2.64	
			For Work In Restricted Working Space, Add	5.27	
26 05 33 13-0799	LF		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	50.16	8.70
			For >250 To 500, Deduct	-1.96	
			For >500 To 1,000, Deduct	-3.22	
			For >1,000, Deduct	-4.47	
			For Installation Above 14', Add	3.26	
			For Work In Restricted Working Space, Add	6.53	
26 05 33 13-0800	LF		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	61.51	10.70
			For >250 To 500, Deduct	-2.41	
			For >500 To 1,000, Deduct	-3.94	
			For >1,000, Deduct	-5.48	
			For Installation Above 14', Add	4.01	
			For Work In Restricted Working Space, Add	8.03	
26 05 33 13-0801	LF		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	72.75	12.71
			For >250 To 500, Deduct	-2.84	
			For >500 To 1,000, Deduct	-4.66	
			For >1,000, Deduct	-6.48	
			For Installation Above 14', Add	4.77	
			For Work In Restricted Working Space, Add	9.53	
26 05 33 13-0802	LF		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	110.24	15.06
			For >250 To 500, Deduct	-4.57	
			For >500 To 1,000, Deduct	-7.33	
			For >1,000, Deduct	-10.08	
			For Installation Above 14', Add	5.65	
			For Work In Restricted Working Space, Add	11.29	
26 05 33 13-0803	LF		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	149.68	20.08
			For >250 To 500, Deduct	-6.23	
			For >500 To 1,000, Deduct	-9.97	
			For >1,000, Deduct	-13.71	
			For Installation Above 14', Add	7.53	
			For Work In Restricted Working Space, Add	15.06	
26 05 33 13-0804			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings (26 05 33 13-0790)		
26 05 33 13-0805	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	15.24	5.02
			For Installation Above 14', Add	1.50	
			For Work In Restricted Working Space, Add	3.01	
26 05 33 13-0806	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	19.68	7.11
			For Installation Above 14', Add	2.13	
			For Work In Restricted Working Space, Add	4.27	
26 05 33 13-0807	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	25.48	9.20
			For Installation Above 14', Add	2.76	
			For Work In Restricted Working Space, Add	5.52	
26 05 33 13-0808	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	29.17	10.45
			For Installation Above 14', Add	3.14	
			For Work In Restricted Working Space, Add	6.27	
26 05 33 13-0809	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	34.92	12.55
			For Installation Above 14', Add	3.77	
			For Work In Restricted Working Space, Add	7.53	
26 05 33 13-0810	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	42.81	14.22
			For Installation Above 14', Add	4.27	
			For Work In Restricted Working Space, Add	8.53	
26 05 33 13-0811	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	67.35	14.22
			For Installation Above 14', Add	4.77	
			For Work In Restricted Working Space, Add	9.53	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0812	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	79.16	19.66
		For Installation Above 14'; Add	5.39	
		For Work In Restricted Working Space, Add	10.79	
26 05 33 13-0813	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	94.73	19.66
		For Installation Above 14'; Add	5.90	
		For Work In Restricted Working Space, Add	11.79	
26 05 33 13-0814	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	106.63	20.91
		For Installation Above 14'; Add	6.27	
		For Work In Restricted Working Space, Add	12.55	
26 05 33 13-0815	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	261.34	25.10
		For Installation Above 14'; Add	7.53	
		For Work In Restricted Working Space, Add	15.06	
26 05 33 13-0816	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	294.43	29.28
		For Installation Above 14'; Add	8.78	
		For Work In Restricted Working Space, Add	17.57	
26 05 33 13-0817 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel				
(RGS) Standard Radius Elbows (26 05 33 13-0790)				
Note: 90, 45, or 30 degree.				
26 05 33 13-0818	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	45.43	13.59
		For Installation Above 14'; Add	4.08	
		For Work In Restricted Working Space, Add	8.15	
26 05 33 13-0819	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	52.65	16.86
		For Installation Above 14'; Add	5.06	
		For Work In Restricted Working Space, Add	10.11	
26 05 33 13-0820	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	63.06	20.66
		For Installation Above 14'; Add	6.20	
		For Work In Restricted Working Space, Add	12.40	
26 05 33 13-0821	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	74.55	23.93
		For Installation Above 14'; Add	7.18	
		For Work In Restricted Working Space, Add	14.36	
26 05 33 13-0822	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	87.18	27.18
		For Installation Above 14'; Add	8.16	
		For Work In Restricted Working Space, Add	16.31	
26 05 33 13-0823	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	105.60	29.90
		For Installation Above 14'; Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
26 05 33 13-0824	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	161.30	37.52
		For Installation Above 14'; Add	11.25	
		For Work In Restricted Working Space, Add	22.51	
26 05 33 13-0825	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	240.08	51.11
		For Installation Above 14'; Add	15.33	
		For Work In Restricted Working Space, Add	30.67	
26 05 33 13-0826	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	296.16	57.63
		For Installation Above 14'; Add	17.29	
		For Work In Restricted Working Space, Add	34.58	
26 05 33 13-0827	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	341.28	75.03
		For Installation Above 14'; Add	22.51	
		For Work In Restricted Working Space, Add	45.02	
26 05 33 13-0828	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	705.48	122.33
		For Installation Above 14'; Add	36.70	
		For Work In Restricted Working Space, Add	73.40	
26 05 33 13-0829	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	1,108.25	183.78
		For Installation Above 14'; Add	55.13	
		For Work In Restricted Working Space, Add	110.27	
26 05 33 13-0830 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel				
(RGS) 12" Large Radius Elbows (26 05 33 13-0790)				
26 05 33 13-0831	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	106.07	20.66
		For Installation Above 14'; Add	6.20	
		For Work In Restricted Working Space, Add	12.40	
26 05 33 13-0832	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	119.46	23.93
		For Installation Above 14'; Add	7.18	
		For Work In Restricted Working Space, Add	14.36	
26 05 33 13-0833	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	136.35	27.18
		For Installation Above 14'; Add	8.16	
		For Work In Restricted Working Space, Add	16.31	
26 05 33 13-0834	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	162.33	29.90
		For Installation Above 14'; Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
26 05 33 13-0835	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	225.51	37.52
		For Installation Above 14'; Add	11.25	
		For Work In Restricted Working Space, Add	22.51	
26 05 33 13-0836 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel				
(RGS) 15" Large Radius Elbows (26 05 33 13-0790)				
26 05 33 13-0837	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	117.70	20.66
		For Installation Above 14'; Add	6.20	
		For Work In Restricted Working Space, Add	12.40	



Electrical			26
Common Work Results For Electrical			26 05
Raceway And Boxes For Electrical Systems			26 05 33

26

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
26 05 33 13-0838	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	138.68 7.18 14.36		23.93	
26 05 33 13-0839	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	150.13 8.16 16.31		27.18	
26 05 33 13-0840	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	192.38 8.97 17.94		29.90	
26 05 33 13-0841	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	254.49 11.25 22.51		37.52	
26 05 33 13-0842	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	326.02 15.33 30.67		51.11	
26 05 33 13-0843 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows (26 05 33 13-0790)					
26 05 33 13-0844	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	131.61 6.20 12.40		20.66	
26 05 33 13-0845	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	148.69 7.18 14.36		23.93	
26 05 33 13-0846	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	167.81 8.16 16.31		27.18	
26 05 33 13-0847	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	202.35 8.97 17.94		29.90	
26 05 33 13-0848	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	287.79 11.25 22.51		37.52	
26 05 33 13-0849	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	365.11 15.33 30.67		51.11	
26 05 33 13-0850	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	459.88 17.29 34.58		57.63	
26 05 33 13-0851	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	519.64 22.51 45.02		75.03	
26 05 33 13-0852 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows (26 05 33 13-0790)					
26 05 33 13-0853	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	155.63 6.20 12.40		20.66	
26 05 33 13-0854	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	172.18 7.18 14.36		23.93	
26 05 33 13-0855	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	194.49 8.16 16.31		27.18	
26 05 33 13-0856	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	240.77 8.97 17.94		29.90	
26 05 33 13-0857	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	347.38 11.25 22.51		37.52	
26 05 33 13-0858	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	431.34 15.33 30.67		51.11	
26 05 33 13-0859	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	500.32 17.29 34.58		57.63	
26 05 33 13-0860	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	593.88 22.51 45.02		75.03	
26 05 33 13-0861 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows (26 05 33 13-0790)					
26 05 33 13-0862	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	174.32 6.20 12.40		20.66	
26 05 33 13-0863	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	194.06 7.18 14.36		23.93	
26 05 33 13-0864	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... For Installation Above 14', Add For Work In Restricted Working Space, Add	220.74 8.16 16.31		27.18	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0865 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....274.21 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	8.97 17.94	29.90
26 05 33 13-0866 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....379.90 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	11.25 22.51	37.52
26 05 33 13-0867 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....484.32 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	15.33 30.67	51.11
26 05 33 13-0868 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....598.65 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	17.29 34.58	57.63
26 05 33 13-0869 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....662.04 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	22.51 45.02	75.03
26 05 33 13-0870 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....1,103.34 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	36.70 73.40	122.33
26 05 33 13-0871 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows (26 05 33 13-0790)		
26 05 33 13-0872 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....198.77 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	6.20 12.40	20.66
26 05 33 13-0873 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....220.48 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	7.18 14.36	23.93
26 05 33 13-0874 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....249.53 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	8.16 16.31	27.18
26 05 33 13-0875 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....311.30 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	8.97 17.94	29.90
26 05 33 13-0876 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....434.08 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	11.25 22.51	37.52
26 05 33 13-0877 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....551.82 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	15.33 30.67	51.11
26 05 33 13-0878 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....647.92 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	17.29 34.58	57.63
26 05 33 13-0879 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....750.02 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	22.51 45.02	75.03
26 05 33 13-0880 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....1,165.00 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	36.70 73.40	122.33
26 05 33 13-0881 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....1,595.47 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	55.13 110.27	183.78
26 05 33 13-0882 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows (26 05 33 13-0790)		
26 05 33 13-0883 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....232.80 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	6.20 12.40	20.66
26 05 33 13-0884 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....244.04 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	7.18 14.36	23.93
26 05 33 13-0885 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....288.05 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	8.16 16.31	27.18
26 05 33 13-0886 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....362.93 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	8.97 17.94	29.90
26 05 33 13-0887 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....507.14 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	11.25 22.51	37.52
26 05 33 13-0888 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....642.81 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	15.33 30.67	51.11
26 05 33 13-0889 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....784.89 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	17.29 34.58	57.63
26 05 33 13-0890 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....921.17 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	22.51 45.02	75.03
26 05 33 13-0891 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....1,366.13 <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	36.70 73.40	122.33



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0892	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,687.79 55.13 110.27	183.78
26 05 33 13-0893			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows (26 05 33 13-0790)		
26 05 33 13-0894	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	241.00 6.20 12.40	20.66
26 05 33 13-0895	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	283.89 7.18 14.36	23.93
26 05 33 13-0896	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	321.37 8.16 16.31	27.18
26 05 33 13-0897	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	378.46 8.97 17.94	29.90
26 05 33 13-0898	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	525.39 11.25 22.51	37.52
26 05 33 13-0899	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	670.80 15.33 30.67	51.11
26 05 33 13-0900	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	859.49 17.29 34.58	57.63
26 05 33 13-0901	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	959.99 22.51 45.02	75.03
26 05 33 13-0902	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,420.16 36.70 73.40	122.33
26 05 33 13-0903	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,734.70 55.13 110.27	183.78
26 05 33 13-0904			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fittings (26 05 33 13-0790)		
26 05 33 13-0905	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55 4.08 8.15 8.15	13.59
26 05 33 13-0906	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.25 5.38 10.76 10.76	17.94
26 05 33 13-0907	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	144.67 6.20 12.40 12.40	20.66
26 05 33 13-0908	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	238.66 7.18 14.35 14.35	23.93
26 05 33 13-0909	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	263.44 8.16 16.31 16.31	27.18
26 05 33 13-0910	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	333.34 8.97 17.94 17.94	29.90
26 05 33 13-0911	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	912.92 11.25 22.51 22.51	37.52
26 05 33 13-0912	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,088.94 15.33 30.67 30.67	51.11
26 05 33 13-0913	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,446.11 22.51 45.02 45.02	75.03
26 05 33 13-0914			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealright Fittings (26 05 33 13-0790)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0915	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	84.82	13.59
		For Installation Above 14', Add	4.08	
		For Work In Restricted Working Space, Add	8.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 05 33 13-0916	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	104.03	17.94
		For Installation Above 14', Add	5.38	
		For Work In Restricted Working Space, Add	10.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.76	
26 05 33 13-0917	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	144.67	20.66
		For Installation Above 14', Add	6.20	
		For Work In Restricted Working Space, Add	12.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.40	
26 05 33 13-0918	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	236.49	23.93
		For Installation Above 14', Add	7.18	
		For Work In Restricted Working Space, Add	14.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-0919	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	254.69	27.18
		For Installation Above 14', Add	8.16	
		For Work In Restricted Working Space, Add	16.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.31	
26 05 33 13-0920	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	333.45	29.90
		For Installation Above 14', Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-0921	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	875.59	37.52
		For Installation Above 14', Add	11.25	
		For Work In Restricted Working Space, Add	22.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.51	
26 05 33 13-0922	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,061.72	51.11
		For Installation Above 14', Add	15.33	
		For Work In Restricted Working Space, Add	30.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.67	
26 05 33 13-0923	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,446.05	75.03
		For Installation Above 14', Add	22.51	
		For Work In Restricted Working Space, Add	45.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.02	
26 05 33 13-0924 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings (26 05 33 13-0790)				
26 05 33 13-0925	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	76.55	13.59
		For Installation Above 14', Add	4.08	
		For Work In Restricted Working Space, Add	8.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 05 33 13-0926	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	91.49	17.94
		For Installation Above 14', Add	5.38	
		For Work In Restricted Working Space, Add	10.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.76	
26 05 33 13-0927	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	108.03	20.66
		For Installation Above 14', Add	6.20	
		For Work In Restricted Working Space, Add	12.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.40	
26 05 33 13-0928	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	154.03	23.93
		For Installation Above 14', Add	7.18	
		For Work In Restricted Working Space, Add	14.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-0929	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	180.01	27.18
		For Installation Above 14', Add	8.16	
		For Work In Restricted Working Space, Add	16.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.31	
26 05 33 13-0930	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	279.48	29.90
		For Installation Above 14', Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-0931	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	771.66	37.52
		For Installation Above 14', Add	11.25	
		For Work In Restricted Working Space, Add	22.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.51	
26 05 33 13-0932	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	867.59	51.11
		For Installation Above 14', Add	15.33	
		For Work In Restricted Working Space, Add	30.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.67	
26 05 33 13-0933	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	1,106.85	75.03
		For Installation Above 14', Add	22.51	
		For Work In Restricted Working Space, Add	45.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.02	

26 05 33 13-0934 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0790)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0935	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	131.81	13.59
			For Installation Above 14', Add	4.08	
			For Work In Restricted Working Space, Add	8.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 05 33 13-0936	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	198.95	17.94
			For Installation Above 14', Add	5.38	
			For Work In Restricted Working Space, Add	10.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.76	
26 05 33 13-0937	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	250.33	20.66
			For Installation Above 14', Add	6.20	
			For Work In Restricted Working Space, Add	12.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.40	
26 05 33 13-0938	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	288.94	23.93
			For Installation Above 14', Add	7.18	
			For Work In Restricted Working Space, Add	14.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-0939	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	328.15	27.18
			For Installation Above 14', Add	8.16	
			For Work In Restricted Working Space, Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.31	
26 05 33 13-0940	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	432.51	29.90
			For Installation Above 14', Add	8.97	
			For Work In Restricted Working Space, Add	17.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-0941	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,367.21	37.52
			For Installation Above 14', Add	11.25	
			For Work In Restricted Working Space, Add	22.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.51	
26 05 33 13-0942	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,595.61	51.11
			For Installation Above 14', Add	15.33	
			For Work In Restricted Working Space, Add	30.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.67	
26 05 33 13-0943	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,960.49	75.03
			For Installation Above 14', Add	22.51	
			For Work In Restricted Working Space, Add	45.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.02	
26 05 33 13-0944			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings (26 05 33 13-0790)		
26 05 33 13-0945	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	146.48	13.59
			For Installation Above 14', Add	4.08	
			For Work In Restricted Working Space, Add	8.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 05 33 13-0946	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	212.79	17.94
			For Installation Above 14', Add	5.38	
			For Work In Restricted Working Space, Add	10.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.76	
26 05 33 13-0947	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	252.97	20.66
			For Installation Above 14', Add	6.20	
			For Work In Restricted Working Space, Add	12.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.40	
26 05 33 13-0948	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	293.28	23.93
			For Installation Above 14', Add	7.18	
			For Work In Restricted Working Space, Add	14.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-0949	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	340.06	27.18
			For Installation Above 14', Add	8.16	
			For Work In Restricted Working Space, Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.31	
26 05 33 13-0950	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	537.16	29.90
			For Installation Above 14', Add	8.97	
			For Work In Restricted Working Space, Add	17.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-0951	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,525.12	37.52
			For Installation Above 14', Add	11.25	
			For Work In Restricted Working Space, Add	22.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.51	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0952	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	2,146.89	51.11
		For Installation Above 14', Add	15.33	
		For Work In Restricted Working Space, Add	30.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.67	
26 05 33 13-0953	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	2,239.56	75.03
		For Installation Above 14', Add	22.51	
		For Work In Restricted Working Space, Add	45.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.02	
26 05 33 13-0954 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fittings (26 05 33 13-0790)				
26 05 33 13-0955	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	115.65	13.59
		For Installation Above 14', Add	4.08	
		For Work In Restricted Working Space, Add	8.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 05 33 13-0956	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	145.84	17.94
		For Installation Above 14', Add	5.38	
		For Work In Restricted Working Space, Add	10.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.76	
26 05 33 13-0957	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	174.83	20.66
		For Installation Above 14', Add	6.20	
		For Work In Restricted Working Space, Add	12.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.40	
26 05 33 13-0958	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	193.60	23.93
		For Installation Above 14', Add	7.18	
		For Work In Restricted Working Space, Add	14.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-0959	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	261.25	27.18
		For Installation Above 14', Add	8.16	
		For Work In Restricted Working Space, Add	16.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.31	
26 05 33 13-0960	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	370.14	29.90
		For Installation Above 14', Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-0961	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,236.43	37.52
		For Installation Above 14', Add	11.25	
		For Work In Restricted Working Space, Add	22.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.51	
26 05 33 13-0962	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,391.11	51.11
		For Installation Above 14', Add	15.33	
		For Work In Restricted Working Space, Add	30.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.67	
26 05 33 13-0963	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,651.72	75.03
		For Installation Above 14', Add	22.51	
		For Work In Restricted Working Space, Add	45.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.02	
26 05 33 13-0964 Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0790)				
Note: Suitable for use in hazardous locations. Class I, Div 2.				
26 05 33 13-0965	EA	1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	103.30	26.10
		For Installation Above 14', Add	7.83	
		For Work In Restricted Working Space, Add	15.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.66	
26 05 33 13-0966	EA	3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	116.48	29.90
		For Installation Above 14', Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-0967	EA	1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	144.33	34.25
		For Installation Above 14', Add	10.28	
		For Work In Restricted Working Space, Add	20.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.55	
26 05 33 13-0968	EA	1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	189.44	39.69
		For Installation Above 14', Add	11.91	
		For Work In Restricted Working Space, Add	23.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0969	EA	1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	221.40	43.50	
		For Installation Above 14', Add	13.05		
		For Work In Restricted Working Space, Add	26.10		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.10		
26 05 33 13-0970	EA	2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	302.54	52.19	
		For Installation Above 14', Add	15.66		
		For Work In Restricted Working Space, Add	31.32		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.32		
26 05 33 13-0971	EA	2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	510.45	73.40	
		For Installation Above 14', Add	22.02		
		For Work In Restricted Working Space, Add	44.04		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.04		
26 05 33 13-0972	EA	3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	653.19	97.87	
		For Installation Above 14', Add	29.36		
		For Work In Restricted Working Space, Add	58.73		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.73		
26 05 33 13-0973	EA	3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	909.28	122.33	
		For Installation Above 14', Add	36.70		
		For Work In Restricted Working Space, Add	73.40		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.40		
26 05 33 13-0974	EA	4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,042.93	148.98	
		For Installation Above 14', Add	44.69		
		For Work In Restricted Working Space, Add	89.39		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.39		
26 05 33 13-0975		Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0790)			
		Note: Suitable for use in hazardous locations. Class I, Div 2.			
26 05 33 13-0976	EA	1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	134.94	34.25	
		For Installation Above 14', Add	10.28		
		For Work In Restricted Working Space, Add	20.55		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.55		
26 05 33 13-0977	EA	3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	153.92	38.06	
		For Installation Above 14', Add	11.42		
		For Work In Restricted Working Space, Add	22.84		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.84		
26 05 33 13-0978	EA	1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	188.52	41.87	
		For Installation Above 14', Add	12.56		
		For Work In Restricted Working Space, Add	25.12		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.12		
26 05 33 13-0979	EA	1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	254.48	47.84	
		For Installation Above 14', Add	14.35		
		For Work In Restricted Working Space, Add	28.71		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.71		
26 05 33 13-0980	EA	1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	301.21	52.19	
		For Installation Above 14', Add	15.66		
		For Work In Restricted Working Space, Add	31.32		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.32		
26 05 33 13-0981	EA	2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	411.04	64.16	
		For Installation Above 14', Add	19.25		
		For Work In Restricted Working Space, Add	38.50		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.50		
26 05 33 13-0982		Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0790)			
		Note: Suitable for use in hazardous locations. Class I, Div 2.			
26 05 33 13-0983	EA	1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	118.79	29.90	
		For Installation Above 14', Add	8.97		
		For Work In Restricted Working Space, Add	17.94		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94		
26 05 33 13-0984	EA	3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	135.48	34.80	
		For Installation Above 14', Add	10.44		
		For Work In Restricted Working Space, Add	20.88		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.88		
26 05 33 13-0985	EA	1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	164.38	38.06	
		For Installation Above 14', Add	11.42		
		For Work In Restricted Working Space, Add	22.84		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.84		
26 05 33 13-0986	EA	1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	211.24	43.50	
		For Installation Above 14', Add	13.05		
		For Work In Restricted Working Space, Add	26.10		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.10		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0987 EA 1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	250.85	47.84
For Installation Above 14', Add	14.35	
For Work In Restricted Working Space, Add	28.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.71	
26 05 33 13-0988 EA 2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	337.32	56.00
For Installation Above 14', Add	16.80	
For Work In Restricted Working Space, Add	33.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.60	
26 05 33 13-0989 EA 2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	543.72	81.56
For Installation Above 14', Add	24.47	
For Work In Restricted Working Space, Add	48.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.94	
26 05 33 13-0990 EA 3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	719.93	106.03
For Installation Above 14', Add	31.81	
For Work In Restricted Working Space, Add	63.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.61	
26 05 33 13-0991 EA 3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	990.98	130.49
For Installation Above 14', Add	39.15	
For Work In Restricted Working Space, Add	78.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.29	
26 05 33 13-0992 EA 4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,106.23	157.14
For Installation Above 14', Add	47.14	
For Work In Restricted Working Space, Add	94.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.28	
26 05 33 13-0993 Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined (26 05 33 13-0790)		
26 05 33 13-0994 EA 1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	24.65	3.26
For Installation Above 14', Add	0.98	
For Work In Restricted Working Space, Add	1.96	
26 05 33 13-0995 EA 3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	27.63	3.81
For Installation Above 14', Add	1.14	
For Work In Restricted Working Space, Add	2.28	
26 05 33 13-0996 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	36.04	4.89
For Installation Above 14', Add	1.47	
For Work In Restricted Working Space, Add	2.93	
26 05 33 13-0997 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	46.39	5.98
For Installation Above 14', Add	1.79	
For Work In Restricted Working Space, Add	3.59	
26 05 33 13-0998 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	51.89	7.07
For Installation Above 14', Add	2.12	
For Work In Restricted Working Space, Add	4.24	
26 05 33 13-0999 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	64.31	8.16
For Installation Above 14', Add	2.45	
For Work In Restricted Working Space, Add	4.89	
26 05 33 13-1000 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	83.39	9.24
For Installation Above 14', Add	2.77	
For Work In Restricted Working Space, Add	5.54	
26 05 33 13-1001 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	91.01	13.05
For Installation Above 14', Add	3.92	
For Work In Restricted Working Space, Add	7.83	
26 05 33 13-1002 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	110.74	14.68
For Installation Above 14', Add	4.40	
For Work In Restricted Working Space, Add	8.81	
26 05 33 13-1003 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	118.36	18.48
For Installation Above 14', Add	5.55	
For Work In Restricted Working Space, Add	11.09	
26 05 33 13-1004 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies (26 05 33 13-0790)		
26 05 33 13-1005 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	117.03	26.10
For Installation Above 14', Add	7.83	
For Work In Restricted Working Space, Add	15.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.66	
26 05 33 13-1006 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	129.54	29.90
For Installation Above 14', Add	8.97	
For Work In Restricted Working Space, Add	17.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-1007 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	151.35	34.25
For Installation Above 14', Add	10.28	
For Work In Restricted Working Space, Add	20.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.55	
26 05 33 13-1008 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	179.71	39.69
For Installation Above 14', Add	11.91	
For Work In Restricted Working Space, Add	23.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.81	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1009	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body 224.13		43.50
			For Installation Above 14', Add	13.05	
			For Work In Restricted Working Space, Add	26.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.10	
26 05 33 13-1010	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body 271.67		52.19
			For Installation Above 14', Add	15.66	
			For Work In Restricted Working Space, Add	31.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.32	
26 05 33 13-1011	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body 393.59		73.40
			For Installation Above 14', Add	22.02	
			For Work In Restricted Working Space, Add	44.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.04	
26 05 33 13-1012	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body 504.40		97.87
			For Installation Above 14', Add	29.36	
			For Work In Restricted Working Space, Add	58.72	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.72	
26 05 33 13-1013	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body 1,014.65		122.33
			For Installation Above 14', Add	36.70	
			For Work In Restricted Working Space, Add	73.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.40	
26 05 33 13-1014	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body 1,488.17		148.98
			For Installation Above 14', Add	44.69	
			For Work In Restricted Working Space, Add	89.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.39	
26 05 33 13-1015 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies (26 05 33 13-0790)					
26 05 33 13-1016	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 201.43		26.10
			For Installation Above 14', Add	7.83	
			For Work In Restricted Working Space, Add	15.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.66	
26 05 33 13-1017	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 216.81		29.90
			For Installation Above 14', Add	8.97	
			For Work In Restricted Working Space, Add	17.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-1018	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 247.57		34.25
			For Installation Above 14', Add	10.28	
			For Work In Restricted Working Space, Add	20.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.55	
26 05 33 13-1019	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 277.03		39.69
			For Installation Above 14', Add	11.91	
			For Work In Restricted Working Space, Add	23.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.81	
26 05 33 13-1020	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 336.16		43.50
			For Installation Above 14', Add	13.05	
			For Work In Restricted Working Space, Add	26.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.10	
26 05 33 13-1021	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 378.24		52.19
			For Installation Above 14', Add	15.66	
			For Work In Restricted Working Space, Add	31.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.32	
26 05 33 13-1022	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 532.15		73.40
			For Installation Above 14', Add	22.02	
			For Work In Restricted Working Space, Add	44.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.04	
26 05 33 13-1023	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 741.69		97.87
			For Installation Above 14', Add	29.36	
			For Work In Restricted Working Space, Add	58.72	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.72	
26 05 33 13-1024	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 1,083.56		122.33
			For Installation Above 14', Add	36.70	
			For Work In Restricted Working Space, Add	73.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.40	
26 05 33 13-1025	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 1,578.34		148.98
			For Installation Above 14', Add	44.69	
			For Work In Restricted Working Space, Add	89.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.39	
26 05 33 13-1026 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies (26 05 33 13-0790)					
26 05 33 13-1027	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body 160.80		26.10
			For Installation Above 14', Add	7.83	
			For Work In Restricted Working Space, Add	15.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.66	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1028 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	171.31	29.90
For Installation Above 14', Add	8.97	
For Work In Restricted Working Space, Add	17.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-1029 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	196.83	34.25
For Installation Above 14', Add	10.28	
For Work In Restricted Working Space, Add	20.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.55	
26 05 33 13-1030 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	219.48	39.69
For Installation Above 14', Add	11.91	
For Work In Restricted Working Space, Add	23.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.81	
26 05 33 13-1031 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	302.65	43.50
For Installation Above 14', Add	13.05	
For Work In Restricted Working Space, Add	26.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.10	
26 05 33 13-1032 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	380.26	52.19
For Installation Above 14', Add	15.66	
For Work In Restricted Working Space, Add	31.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.32	
26 05 33 13-1033 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	591.07	73.40
For Installation Above 14', Add	22.02	
For Work In Restricted Working Space, Add	44.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.04	
26 05 33 13-1034 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	861.57	97.87
For Installation Above 14', Add	29.36	
For Work In Restricted Working Space, Add	58.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.72	
26 05 33 13-1035 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	1,083.56	122.33
For Installation Above 14', Add	36.70	
For Work In Restricted Working Space, Add	73.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.40	
26 05 33 13-1036 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) ESD Sealing Conduit Bodies (26 05 33 13-0790)		
26 05 33 13-1037 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) ESD Sealing Conduit Body.....	213.36	26.10
For Installation Above 14', Add	7.83	
For Work In Restricted Working Space, Add	15.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.66	
26 05 33 13-1038 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) ESD Sealing Conduit Body.....	236.70	29.90
For Installation Above 14', Add	8.97	
For Work In Restricted Working Space, Add	17.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-1039 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) ESD Sealing Conduit Body.....	293.59	34.25
For Installation Above 14', Add	10.28	
For Work In Restricted Working Space, Add	20.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.55	
26 05 33 13-1040 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) ESD Sealing Conduit Body.....	362.14	39.69
For Installation Above 14', Add	11.91	
For Work In Restricted Working Space, Add	23.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.81	
26 05 33 13-1041 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) ESD Sealing Conduit Body.....	504.22	43.50
For Installation Above 14', Add	13.05	
For Work In Restricted Working Space, Add	26.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.10	
26 05 33 13-1042 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) ESD Sealing Conduit Body.....	604.29	52.19
For Installation Above 14', Add	15.66	
For Work In Restricted Working Space, Add	31.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.32	
26 05 33 13-1043 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings (26 05 33 13-0790)		
26 05 33 13-1044 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	40.66	10.45
For Installation Above 14', Add	3.14	
For Work In Restricted Working Space, Add	6.27	
26 05 33 13-1045 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	54.03	12.55
For Installation Above 14', Add	3.77	
For Work In Restricted Working Space, Add	7.53	
26 05 33 13-1046 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	68.59	16.73
For Installation Above 14', Add	5.02	
For Work In Restricted Working Space, Add	10.04	
26 05 33 13-1047 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	94.56	20.91
For Installation Above 14', Add	6.27	
For Work In Restricted Working Space, Add	12.55	
26 05 33 13-1048 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	124.26	25.10
For Installation Above 14', Add	7.53	
For Work In Restricted Working Space, Add	15.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1049	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	215.18	29.28
			For Installation Above 14', Add	8.78	
			For Work In Restricted Working Space, Add	17.57	
26 05 33 13-1050	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	313.50	33.46
			For Installation Above 14', Add	10.04	
			For Work In Restricted Working Space, Add	20.08	
26 05 33 13-1051	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	391.49	37.64
			For Installation Above 14', Add	11.29	
			For Work In Restricted Working Space, Add	22.59	
26 05 33 13-1052	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	545.69	43.91
			For Installation Above 14', Add	13.17	
			For Work In Restricted Working Space, Add	26.35	
26 05 33 13-1053	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	662.84	50.19
			For Installation Above 14', Add	15.06	
			For Work In Restricted Working Space, Add	30.11	
26 05 33 13-1054	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,060.97	79.46
			For Installation Above 14', Add	23.84	
			For Work In Restricted Working Space, Add	47.68	
26 05 33 13-1055	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,449.18	121.29
			For Installation Above 14', Add	36.39	
			For Work In Restricted Working Space, Add	72.77	
26 05 33 13-1056 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows (26 05 33 13-0790)					
26 05 33 13-1057	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	151.53	26.10
			For Installation Above 14', Add	7.83	
			For Work In Restricted Working Space, Add	15.66	
26 05 33 13-1058	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	179.33	28.82
			For Installation Above 14', Add	8.64	
			For Work In Restricted Working Space, Add	17.29	
26 05 33 13-1059	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	197.67	34.25
			For Installation Above 14', Add	10.28	
			For Work In Restricted Working Space, Add	20.55	
26 05 33 13-1060	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	284.91	39.69
			For Installation Above 14', Add	11.91	
			For Work In Restricted Working Space, Add	23.81	
26 05 33 13-1061	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	376.60	43.50
			For Installation Above 14', Add	13.05	
			For Work In Restricted Working Space, Add	26.10	
26 05 33 13-1062	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	406.03	52.19
			For Installation Above 14', Add	15.66	
			For Work In Restricted Working Space, Add	31.32	
26 05 33 13-1063	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	963.58	72.31
			For Installation Above 14', Add	21.69	
			For Work In Restricted Working Space, Add	43.39	
26 05 33 13-1064	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,014.89	97.87
			For Installation Above 14', Add	29.36	
			For Work In Restricted Working Space, Add	58.73	
26 05 33 13-1065	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,663.57	122.33
			For Installation Above 14', Add	36.70	
			For Work In Restricted Working Space, Add	73.40	
26 05 33 13-1066	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,730.62	148.98
			For Installation Above 14', Add	44.70	
			For Work In Restricted Working Space, Add	89.39	
26 05 33 13-1067 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows (26 05 33 13-0790)					
26 05 33 13-1068	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	222.23	26.10
			For Installation Above 14', Add	7.83	
			For Work In Restricted Working Space, Add	15.66	
26 05 33 13-1069	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	253.16	29.90
			For Installation Above 14', Add	8.97	
			For Work In Restricted Working Space, Add	17.94	
26 05 33 13-1070	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	501.82	34.25
			For Installation Above 14', Add	10.28	
			For Work In Restricted Working Space, Add	20.55	
26 05 33 13-1071	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	526.07	39.69
			For Installation Above 14', Add	11.91	
			For Work In Restricted Working Space, Add	23.81	
26 05 33 13-1072	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	720.14	43.50
			For Installation Above 14', Add	13.05	
			For Work In Restricted Working Space, Add	26.10	
26 05 33 13-1073	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	767.57	52.19
			For Installation Above 14', Add	15.66	
			For Work In Restricted Working Space, Add	31.32	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1074 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,478.44	73.40
For Installation Above 14', Add	22.02	
For Work In Restricted Working Space, Add	44.04	
26 05 33 13-1075 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,553.70	97.87
For Installation Above 14', Add	29.36	
For Work In Restricted Working Space, Add	58.72	
26 05 33 13-1076 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,278.18	122.33
For Installation Above 14', Add	36.70	
For Work In Restricted Working Space, Add	73.40	
26 05 33 13-1077 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,578.65	148.98
For Installation Above 14', Add	44.69	
For Work In Restricted Working Space, Add	89.39	
26 05 33 13-1078 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows (26 05 33 13-0790)		
26 05 33 13-1079 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	84.90	13.59
For Installation Above 14', Add	4.08	
For Work In Restricted Working Space, Add	8.15	
26 05 33 13-1080 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	98.70	16.86
For Installation Above 14', Add	5.06	
For Work In Restricted Working Space, Add	10.11	
26 05 33 13-1081 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	117.53	20.66
For Installation Above 14', Add	6.20	
For Work In Restricted Working Space, Add	12.40	
26 05 33 13-1082 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	138.78	23.93
For Installation Above 14', Add	7.18	
For Work In Restricted Working Space, Add	14.36	
26 05 33 13-1083 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows (26 05 33 13-0790)		
26 05 33 13-1084 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	66.48	13.59
For Installation Above 14', Add	4.08	
For Work In Restricted Working Space, Add	8.15	
26 05 33 13-1085 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	76.59	16.86
For Installation Above 14', Add	5.06	
For Work In Restricted Working Space, Add	10.11	
26 05 33 13-1086 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	106.76	20.66
For Installation Above 14', Add	6.20	
For Work In Restricted Working Space, Add	12.40	
26 05 33 13-1087 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	138.87	23.93
For Installation Above 14', Add	7.18	
For Work In Restricted Working Space, Add	14.36	
26 05 33 13-1088 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	169.47	27.18
For Installation Above 14', Add	8.16	
For Work In Restricted Working Space, Add	16.31	
26 05 33 13-1089 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	244.88	29.90
For Installation Above 14', Add	8.97	
For Work In Restricted Working Space, Add	17.94	
26 05 33 13-1090 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	335.07	37.52
For Installation Above 14', Add	11.25	
For Work In Restricted Working Space, Add	22.51	
26 05 33 13-1091 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows (26 05 33 13-0790)		
26 05 33 13-1092 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	84.94	13.59
For Installation Above 14', Add	4.08	
For Work In Restricted Working Space, Add	8.15	
26 05 33 13-1093 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	101.25	16.86
For Installation Above 14', Add	5.06	
For Work In Restricted Working Space, Add	10.11	
26 05 33 13-1094 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	117.55	20.66
For Installation Above 14', Add	6.20	
For Work In Restricted Working Space, Add	12.40	



Electrical			26
Common Work Results For Electrical			26 05
Raceway And Boxes For Electrical Systems			26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 05 33 13-1095	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	138.82		23.93
		For Installation Above 14', Add	7.18		
		For Work In Restricted Working Space, Add	14.36		
26 05 33 13-1096 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows (26 05 33 13-0790)					
26 05 33 13-1097	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	66.54		13.59
		For Installation Above 14', Add	4.08		
		For Work In Restricted Working Space, Add	8.15		
26 05 33 13-1098	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	76.59		16.86
		For Installation Above 14', Add	5.06		
		For Work In Restricted Working Space, Add	10.11		
26 05 33 13-1099	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	99.13		20.66
		For Installation Above 14', Add	6.20		
		For Work In Restricted Working Space, Add	12.40		
26 05 33 13-1100	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	124.05		23.93
		For Installation Above 14', Add	7.18		
		For Work In Restricted Working Space, Add	14.36		
26 05 33 13-1101	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	145.34		27.18
		For Installation Above 14', Add	8.16		
		For Work In Restricted Working Space, Add	16.31		
26 05 33 13-1102	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	167.60		29.90
		For Installation Above 14', Add	8.97		
		For Work In Restricted Working Space, Add	17.94		
26 05 33 13-1103	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	315.37		37.52
		For Installation Above 14', Add	11.25		
		For Work In Restricted Working Space, Add	22.51		
26 05 33 13-1104	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	360.41		51.11
		For Installation Above 14', Add	15.33		
		For Work In Restricted Working Space, Add	30.67		
26 05 33 13-1105	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	388.53		57.63
		For Installation Above 14', Add	17.29		
		For Work In Restricted Working Space, Add	34.58		
26 05 33 13-1106	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	478.82		75.03
		For Installation Above 14', Add	22.51		
		For Work In Restricted Working Space, Add	45.02		
26 05 33 13-1107 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows (26 05 33 13-0790)					
26 05 33 13-1108	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	139.60		26.10
		For Installation Above 14', Add	7.83		
		For Work In Restricted Working Space, Add	15.66		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.66		
26 05 33 13-1109	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	150.66		29.90
		For Installation Above 14', Add	8.97		
		For Work In Restricted Working Space, Add	17.94		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94		
26 05 33 13-1110	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	164.73		34.25
		For Installation Above 14', Add	10.28		
		For Work In Restricted Working Space, Add	20.55		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.55		
26 05 33 13-1111	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	222.05		39.69
		For Installation Above 14', Add	11.91		
		For Work In Restricted Working Space, Add	23.81		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.81		
26 05 33 13-1112	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	283.41		43.50
		For Installation Above 14', Add	13.05		
		For Work In Restricted Working Space, Add	26.10		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.10		
26 05 33 13-1113 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover (26 05 33 13-0790)					
26 05 33 13-1114	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	168.79		26.10
		For Installation Above 14', Add	7.83		
		For Work In Restricted Working Space, Add	15.66		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1115	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	181.63	29.90
			<i>For Installation Above 14', Add</i>	8.97	
			<i>For Work In Restricted Working Space, Add</i>	17.94	
26 05 33 13-1116	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	212.40	34.25
			<i>For Installation Above 14', Add</i>	10.28	
			<i>For Work In Restricted Working Space, Add</i>	20.55	
26 05 33 13-1117	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	304.78	39.69
			<i>For Installation Above 14', Add</i>	11.91	
			<i>For Work In Restricted Working Space, Add</i>	23.81	
26 05 33 13-1118	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	497.79	43.50
			<i>For Installation Above 14', Add</i>	13.05	
			<i>For Work In Restricted Working Space, Add</i>	26.10	
26 05 33 13-1119	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	537.21	52.19
			<i>For Installation Above 14', Add</i>	15.66	
			<i>For Work In Restricted Working Space, Add</i>	31.32	
26 05 33 13-1120 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover (26 05 33 13-0790)					
26 05 33 13-1121	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	185.35	26.10
			<i>For Installation Above 14', Add</i>	7.83	
			<i>For Work In Restricted Working Space, Add</i>	15.66	
26 05 33 13-1122	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	209.26	29.90
			<i>For Installation Above 14', Add</i>	8.97	
			<i>For Work In Restricted Working Space, Add</i>	17.94	
26 05 33 13-1123	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	228.16	34.25
			<i>For Installation Above 14', Add</i>	10.28	
			<i>For Work In Restricted Working Space, Add</i>	20.55	
26 05 33 13-1124	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	320.80	39.69
			<i>For Installation Above 14', Add</i>	11.91	
			<i>For Work In Restricted Working Space, Add</i>	23.81	
26 05 33 13-1125	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	536.00	43.50
			<i>For Installation Above 14', Add</i>	13.05	
			<i>For Work In Restricted Working Space, Add</i>	26.10	
26 05 33 13-1126	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	572.28	52.19
			<i>For Installation Above 14', Add</i>	15.66	
			<i>For Work In Restricted Working Space, Add</i>	31.32	
26 05 33 13-1127 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover (26 05 33 13-0790)					
26 05 33 13-1128	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	185.49	26.10
			<i>For Installation Above 14', Add</i>	7.83	
			<i>For Work In Restricted Working Space, Add</i>	15.66	
26 05 33 13-1129	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	204.37	29.90
			<i>For Installation Above 14', Add</i>	8.97	
			<i>For Work In Restricted Working Space, Add</i>	17.94	
26 05 33 13-1130	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	243.38	34.25
			<i>For Installation Above 14', Add</i>	10.28	
			<i>For Work In Restricted Working Space, Add</i>	20.55	
26 05 33 13-1131	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	333.00	39.69
			<i>For Installation Above 14', Add</i>	11.91	
			<i>For Work In Restricted Working Space, Add</i>	23.81	
26 05 33 13-1132	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	554.21	43.50
			<i>For Installation Above 14', Add</i>	13.05	
			<i>For Work In Restricted Working Space, Add</i>	26.10	
26 05 33 13-1133	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	594.72	52.19
			<i>For Installation Above 14', Add</i>	15.66	
			<i>For Work In Restricted Working Space, Add</i>	31.32	
26 05 33 13-1134 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover (26 05 33 13-0790)					
26 05 33 13-1135	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover.....	231.34	26.10
			<i>For Installation Above 14', Add</i>	7.83	
			<i>For Work In Restricted Working Space, Add</i>	15.66	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1136	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	255.35	29.90
		For Installation Above 14', Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
26 05 33 13-1137	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	276.52	34.25
		For Installation Above 14', Add	10.28	
		For Work In Restricted Working Space, Add	20.55	
26 05 33 13-1138	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	703.59	39.69
		For Installation Above 14', Add	11.91	
		For Work In Restricted Working Space, Add	23.81	
26 05 33 13-1139		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0790) Note: Excludes cover.		
26 05 33 13-1140	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	109.08	26.10
		For Installation Above 14', Add	7.83	
		For Work In Restricted Working Space, Add	15.66	
26 05 33 13-1141	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	119.76	29.90
		For Installation Above 14', Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
26 05 33 13-1142	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	133.61	34.25
		For Installation Above 14', Add	10.28	
		For Work In Restricted Working Space, Add	20.55	
26 05 33 13-1143	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	121.51	26.10
		For Installation Above 14', Add	7.83	
		For Work In Restricted Working Space, Add	15.66	
26 05 33 13-1144	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	130.64	29.90
		For Installation Above 14', Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
26 05 33 13-1145	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	148.71	34.25
		For Installation Above 14', Add	10.28	
		For Work In Restricted Working Space, Add	20.55	
26 05 33 13-1146		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes (26 05 33 13-0790) Note: Excludes cover.		
26 05 33 13-1147	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	114.96	26.10
		For Installation Above 14', Add	7.83	
		For Work In Restricted Working Space, Add	15.66	
26 05 33 13-1148	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	126.38	29.90
		For Installation Above 14', Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
26 05 33 13-1149	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	138.18	34.25
		For Installation Above 14', Add	10.28	
		For Work In Restricted Working Space, Add	20.55	
26 05 33 13-1150	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	129.92	26.10
		For Installation Above 14', Add	7.83	
		For Work In Restricted Working Space, Add	15.66	
26 05 33 13-1151	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	141.49	29.90
		For Installation Above 14', Add	8.97	
		For Work In Restricted Working Space, Add	17.94	
26 05 33 13-1152	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	159.88	34.25
		For Installation Above 14', Add	10.28	
		For Work In Restricted Working Space, Add	20.55	
26 05 33 13-1153		Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers (26 05 33 13-0790)		
26 05 33 13-1154	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	41.72	3.26
		For Installation Above 14', Add	0.98	
		For Work In Restricted Working Space, Add	1.96	
26 05 33 13-1155	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover	56.84	3.81
		For Installation Above 14', Add	1.14	
		For Work In Restricted Working Space, Add	2.28	
26 05 33 13-1156	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover	53.61	3.81
		For Installation Above 14', Add	1.14	
		For Work In Restricted Working Space, Add	2.28	
26 05 33 13-1157	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover	47.59	3.81
		For Installation Above 14', Add	1.14	
		For Work In Restricted Working Space, Add	2.28	
26 05 33 13-1158	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover	234.26	5.43
		For Installation Above 14', Add	1.63	
		For Work In Restricted Working Space, Add	3.26	
26 05 33 13-1159	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover	208.13	5.43
		For Installation Above 14', Add	1.63	
		For Work In Restricted Working Space, Add	3.26	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 33 13-1160	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies (26 05 33 13-0790)				
	Note: Includes covers.				
26 05 33 13-1161	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	240.00		34.25	
	For Installation Above 14', Add	10.28			
	For Work In Restricted Working Space, Add	20.55			
26 05 33 13-1162	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	269.38		39.69	
	For Installation Above 14', Add	11.91			
	For Work In Restricted Working Space, Add	23.81			
26 05 33 13-1163	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	373.82		43.50	
	For Installation Above 14', Add	13.05			
	For Work In Restricted Working Space, Add	26.10			
26 05 33 13-1164	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	445.38		52.19	
	For Installation Above 14', Add	15.66			
	For Work In Restricted Working Space, Add	31.32			
26 05 33 13-1165	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	643.75		73.40	
	For Installation Above 14', Add	22.02			
	For Work In Restricted Working Space, Add	44.04			
26 05 33 13-1166	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	811.42		97.87	
	For Installation Above 14', Add	29.36			
	For Work In Restricted Working Space, Add	58.72			
26 05 33 13-1167	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	1,192.88		122.33	
	For Installation Above 14', Add	36.70			
	For Work In Restricted Working Space, Add	73.40			
26 05 33 13-1168	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	1,480.60		148.98	
	For Installation Above 14', Add	44.69			
	For Work In Restricted Working Space, Add	89.39			
26 05 33 13-1169	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	240.00		34.25	
	For Installation Above 14', Add	10.28			
	For Work In Restricted Working Space, Add	20.55			
26 05 33 13-1170	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	269.38		39.69	
	For Installation Above 14', Add	11.91			
	For Work In Restricted Working Space, Add	23.81			
26 05 33 13-1171	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	372.77		43.50	
	For Installation Above 14', Add	13.05			
	For Work In Restricted Working Space, Add	26.10			
26 05 33 13-1172	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	434.73		52.19	
	For Installation Above 14', Add	15.66			
	For Work In Restricted Working Space, Add	31.32			
26 05 33 13-1173	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	653.55		73.40	
	For Installation Above 14', Add	22.02			
	For Work In Restricted Working Space, Add	44.04			
26 05 33 13-1174	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	855.38		97.87	
	For Installation Above 14', Add	29.36			
	For Work In Restricted Working Space, Add	58.72			
26 05 33 13-1175	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	1,245.95		122.33	
	For Installation Above 14', Add	36.70			
	For Work In Restricted Working Space, Add	73.40			
26 05 33 13-1176	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	1,513.65		148.98	
	For Installation Above 14', Add	44.69			
	For Work In Restricted Working Space, Add	89.39			
26 05 33 13-1177	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	240.00		34.25	
	For Installation Above 14', Add	10.28			
	For Work In Restricted Working Space, Add	20.55			
26 05 33 13-1178	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	269.38		39.69	
	For Installation Above 14', Add	11.91			
	For Work In Restricted Working Space, Add	23.81			
26 05 33 13-1179	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	372.77		43.50	
	For Installation Above 14', Add	13.05			
	For Work In Restricted Working Space, Add	26.10			
26 05 33 13-1180	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	434.73		52.19	
	For Installation Above 14', Add	15.66			
	For Work In Restricted Working Space, Add	31.32			
26 05 33 13-1181	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	653.55		73.40	
	For Installation Above 14', Add	22.02			
	For Work In Restricted Working Space, Add	44.04			
26 05 33 13-1182	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	855.38		97.87	
	For Installation Above 14', Add	29.36			
	For Work In Restricted Working Space, Add	58.72			
26 05 33 13-1183	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	1,245.95		122.33	
	For Installation Above 14', Add	36.70			
	For Work In Restricted Working Space, Add	73.40			
26 05 33 13-1184	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	1,513.65		148.98	
	For Installation Above 14', Add	44.69			
	For Work In Restricted Working Space, Add	89.39			
26 05 33 13-1185	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	240.00		34.25	
	For Installation Above 14', Add	10.28			
	For Work In Restricted Working Space, Add	20.55			
26 05 33 13-1186	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	269.38		39.69	
	For Installation Above 14', Add	11.91			
	For Work In Restricted Working Space, Add	23.81			
26 05 33 13-1187	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	373.82		43.50	
	For Installation Above 14', Add	13.05			
	For Work In Restricted Working Space, Add	26.10			



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1188	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	440.47 15.66 31.32	52.19
26 05 33 13-1189	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	643.75 22.02 44.04	73.40
26 05 33 13-1190	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	811.42 29.36 58.72	97.87
26 05 33 13-1191	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,192.88 36.70 73.40	122.33
26 05 33 13-1192	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,494.36 44.69 89.39	148.98
26 05 33 13-1193 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers (26 05 33 13-0790)				
26 05 33 13-1194	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	121.51 1.47 2.93	4.89
26 05 33 13-1195	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	122.61 1.63 3.26	5.43
26 05 33 13-1196	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	173.34 2.28 4.57	7.61
26 05 33 13-1197	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	175.51 2.61 5.22	8.70
26 05 33 13-1198	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	307.57 3.10 6.20	10.33
26 05 33 13-1199	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	313.01 3.92 7.83	13.05
26 05 33 13-1200	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	472.34 4.40 8.81	14.68
26 05 33 13-1201	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	481.04 5.71 11.42	19.03
26 05 33 13-1202 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings (26 05 33 13-0790)				
26 05 33 13-1203	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	208.33 4.08 8.15	13.59
26 05 33 13-1204	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	246.00 5.06 10.11	16.86
26 05 33 13-1205	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	291.07 6.20 12.40	20.66
26 05 33 13-1206	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	358.85 7.18 14.36	23.93
26 05 33 13-1207	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	480.58 8.16 16.31	27.18
26 05 33 13-1208	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	666.78 8.97 17.94	29.90
26 05 33 13-1209	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	953.22 11.25 22.51	37.52
26 05 33 13-1210	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,184.46 15.33 30.67	51.11
26 05 33 13-1211	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,664.41 17.29 34.58	57.63
26 05 33 13-1212	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,916.72 22.51 45.02	75.03

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1213			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper (26 05 33 13-0790)		
26 05 33 13-1214	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	332.43	13.59
			For Installation Above 14', Add	4.08	
			For Work In Restricted Working Space, Add	8.15	
26 05 33 13-1215	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	344.71	16.86
			For Installation Above 14', Add	5.06	
			For Work In Restricted Working Space, Add	10.11	
26 05 33 13-1216	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	386.85	20.66
			For Installation Above 14', Add	6.20	
			For Work In Restricted Working Space, Add	12.40	
26 05 33 13-1217	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	468.30	23.93
			For Installation Above 14', Add	7.18	
			For Work In Restricted Working Space, Add	14.36	
26 05 33 13-1218	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	567.97	27.18
			For Installation Above 14', Add	8.16	
			For Work In Restricted Working Space, Add	16.31	
26 05 33 13-1219	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	726.95	29.90
			For Installation Above 14', Add	8.97	
			For Work In Restricted Working Space, Add	17.94	
26 05 33 13-1220	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,074.41	37.52
			For Installation Above 14', Add	11.25	
			For Work In Restricted Working Space, Add	22.51	
26 05 33 13-1221	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,346.41	51.11
			For Installation Above 14', Add	15.33	
			For Work In Restricted Working Space, Add	30.67	
26 05 33 13-1222	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,716.69	57.63
			For Installation Above 14', Add	17.29	
			For Work In Restricted Working Space, Add	34.58	
26 05 33 13-1223	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	2,148.27	75.03
			For Installation Above 14', Add	22.51	
			For Work In Restricted Working Space, Add	45.02	
26 05 33 13-1224			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0790)		
26 05 33 13-1225	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	68.47	6.53
			For Installation Above 14', Add	1.96	
			For Work In Restricted Working Space, Add	3.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.92	
26 05 33 13-1226	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	74.07	8.16
			For Installation Above 14', Add	2.45	
			For Work In Restricted Working Space, Add	4.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.89	
26 05 33 13-1227	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	81.37	9.78
			For Installation Above 14', Add	2.94	
			For Work In Restricted Working Space, Add	5.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.87	
26 05 33 13-1228	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	91.91	11.96
			For Installation Above 14', Add	3.59	
			For Work In Restricted Working Space, Add	7.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18	
26 05 33 13-1229	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	124.01	13.59
			For Installation Above 14', Add	4.08	
			For Work In Restricted Working Space, Add	8.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 05 33 13-1230	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	151.77	15.23
			For Installation Above 14', Add	4.57	
			For Work In Restricted Working Space, Add	9.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 05 33 13-1231	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	217.69	19.03
			For Installation Above 14', Add	5.71	
			For Work In Restricted Working Space, Add	11.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.42	
26 05 33 13-1232	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	284.08	25.55
			For Installation Above 14', Add	7.67	
			For Work In Restricted Working Space, Add	15.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	
26 05 33 13-1233	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	363.32	28.82
			For Installation Above 14', Add	8.64	
			For Work In Restricted Working Space, Add	17.29	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.29	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1234	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	456.75 11.25 22.51 22.51	37.52
26 05 33 13-1235	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	565.72 18.27 36.54 36.54	60.89
26 05 33 13-1236	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	853.19 27.57 55.13 55.13	91.88
26 05 33 13-1237		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0790)		
26 05 33 13-1238	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.73 1.96 3.92 3.92	6.53
26 05 33 13-1239	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.58 2.45 4.89 4.89	8.16
26 05 33 13-1240	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.66 2.94 5.87 5.87	9.78
26 05 33 13-1241	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.23 3.59 7.18 7.18	11.96
26 05 33 13-1242	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.99 4.08 8.15 8.15	13.59
26 05 33 13-1243	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.90 4.57 9.14 9.14	15.23
26 05 33 13-1244	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	248.92 5.71 11.42 11.42	19.03
26 05 33 13-1245	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	297.54 7.67 15.33 15.33	25.55
26 05 33 13-1246	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	366.23 8.64 17.29 17.29	28.82
26 05 33 13-1247	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	475.53 11.25 22.51 22.51	37.52
26 05 33 13-1248	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	739.36 18.27 36.54 36.54	60.89
26 05 33 13-1249	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,211.04 27.57 55.13 55.13	91.88
26 05 33 13-1250		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0790)		
26 05 33 13-1251	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111.57 1.96 3.92 3.92	6.53
26 05 33 13-1252	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.02 2.45 4.89 4.89	8.16
26 05 33 13-1253	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.43 2.94 5.87 5.87	9.78
26 05 33 13-1254	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.83 3.59 7.18 7.18	11.96

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1255	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.48 4.08 8.15 8.15	13.59
26 05 33 13-1256	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.56 4.57 9.14 9.14	15.23
26 05 33 13-1257 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0790)				
26 05 33 13-1258	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	81.57 4.08 8.15	13.59
26 05 33 13-1259	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	89.09 5.06 10.11	16.86
26 05 33 13-1260	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	115.57 6.20 12.40	20.66
26 05 33 13-1261	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	167.34 7.18 14.36	23.93
26 05 33 13-1262	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	198.49 8.16 16.31	27.18
26 05 33 13-1263	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	251.87 8.97 17.94	29.90
26 05 33 13-1264	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	335.05 11.25 22.51	37.52
26 05 33 13-1265	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	433.51 11.25 22.51	37.52
26 05 33 13-1266	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	559.94 17.29 34.58	57.63
26 05 33 13-1267	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	721.02 22.51 45.02	75.03
26 05 33 13-1268	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,311.86 36.70 73.40	122.33
26 05 33 13-1269	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,638.56 55.13 110.27	183.78
26 05 33 13-1270 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions (26 05 33 13-0790)				
26 05 33 13-1271	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	83.40 4.08 8.15	13.59
26 05 33 13-1272	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	96.09 5.06 10.11	16.86
26 05 33 13-1273	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	119.30 6.20 12.40	20.66
26 05 33 13-1274	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	174.18 7.18 14.36	23.93
26 05 33 13-1275	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	207.99 8.16 16.31	27.18
26 05 33 13-1276	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	272.40 8.97 17.94	29.90
26 05 33 13-1277	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	378.97 11.25 22.51	37.52
26 05 33 13-1278	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	478.16 11.25 22.51	37.52
26 05 33 13-1279	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	640.67 17.29 34.58	57.63
26 05 33 13-1280	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	801.46 22.51 45.02	75.03



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1281	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,459.31	122.33
			For Installation Above 14', Add	36.70	
			For Work In Restricted Working Space, Add	73.40	
26 05 33 13-1282	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,876.65	183.78
			For Installation Above 14', Add	55.13	
			For Work In Restricted Working Space, Add	110.27	
26 05 33 13-1283 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings (26 05 33 13-0790)					
26 05 33 13-1284	EA		3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	45.49	4.35
			For Installation Above 14', Add	1.31	
			For Work In Restricted Working Space, Add	2.61	
26 05 33 13-1285	EA		1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	49.89	5.43
			For Installation Above 14', Add	1.63	
			For Work In Restricted Working Space, Add	3.26	
26 05 33 13-1286	EA		1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	56.76	5.43
			For Installation Above 14', Add	1.63	
			For Work In Restricted Working Space, Add	3.26	
26 05 33 13-1287	EA		1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	70.16	5.98
			For Installation Above 14', Add	1.79	
			For Work In Restricted Working Space, Add	3.59	
26 05 33 13-1288	EA		1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	74.13	5.98
			For Installation Above 14', Add	1.79	
			For Work In Restricted Working Space, Add	3.59	
26 05 33 13-1289	EA		1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	63.59	7.07
			For Installation Above 14', Add	2.12	
			For Work In Restricted Working Space, Add	4.24	
26 05 33 13-1290	EA		1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	72.44	7.07
			For Installation Above 14', Add	2.12	
			For Work In Restricted Working Space, Add	4.24	
26 05 33 13-1291	EA		1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	112.25	7.07
			For Installation Above 14', Add	2.12	
			For Work In Restricted Working Space, Add	4.24	
26 05 33 13-1292	EA		2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	124.77	8.16
			For Installation Above 14', Add	2.45	
			For Work In Restricted Working Space, Add	4.89	
26 05 33 13-1293	EA		2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	121.34	8.16
			For Installation Above 14', Add	2.45	
			For Work In Restricted Working Space, Add	4.89	
26 05 33 13-1294	EA		2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	127.72	8.16
			For Installation Above 14', Add	2.45	
			For Work In Restricted Working Space, Add	4.89	
26 05 33 13-1295	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	143.78	8.16
			For Installation Above 14', Add	2.45	
			For Work In Restricted Working Space, Add	4.89	
26 05 33 13-1296	EA		2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	142.73	9.78
			For Installation Above 14', Add	2.94	
			For Work In Restricted Working Space, Add	5.87	
26 05 33 13-1297	EA		3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	181.95	13.59
			For Installation Above 14', Add	4.08	
			For Work In Restricted Working Space, Add	8.16	
26 05 33 13-1298	EA		3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	268.08	15.77
			For Installation Above 14', Add	4.73	
			For Work In Restricted Working Space, Add	9.46	
26 05 33 13-1299	EA		4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	358.65	21.75
			For Installation Above 14', Add	6.53	
			For Work In Restricted Working Space, Add	13.05	
26 05 33 13-1300	EA		5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	448.38	29.90
			For Installation Above 14', Add	8.97	
			For Work In Restricted Working Space, Add	17.94	
26 05 33 13-1301 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples (26 05 33 13-0790)					
26 05 33 13-1302	EA		1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	28.48	6.53
			For Installation Above 14', Add	1.96	
			For Work In Restricted Working Space, Add	3.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.92	
26 05 33 13-1303	EA		3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	32.03	8.16
			For Installation Above 14', Add	2.45	
			For Work In Restricted Working Space, Add	4.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.89	
26 05 33 13-1304	EA		1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	37.24	10.33
			For Installation Above 14', Add	3.10	
			For Work In Restricted Working Space, Add	6.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.20	
26 05 33 13-1305	EA		1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.33	11.96
			For Installation Above 14', Add	3.59	
			For Work In Restricted Working Space, Add	7.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1306	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	48.25	13.59
		For Installation Above 14', Add		4.08	
		For Work In Restricted Working Space, Add		8.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.15	
26 05 33 13-1307	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	31.54	7.07
		For Installation Above 14', Add		2.12	
		For Work In Restricted Working Space, Add		4.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.24	
26 05 33 13-1308	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	34.14	8.16
		For Installation Above 14', Add		2.45	
		For Work In Restricted Working Space, Add		4.89	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.89	
26 05 33 13-1309	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	39.37	10.33
		For Installation Above 14', Add		3.10	
		For Work In Restricted Working Space, Add		6.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.20	
26 05 33 13-1310	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	46.58	11.96
		For Installation Above 14', Add		3.59	
		For Work In Restricted Working Space, Add		7.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.18	
26 05 33 13-1311	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	50.68	13.59
		For Installation Above 14', Add		4.08	
		For Work In Restricted Working Space, Add		8.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.15	
26 05 33 13-1312	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	55.00	15.23
		For Installation Above 14', Add		4.57	
		For Work In Restricted Working Space, Add		9.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.14	
26 05 33 13-1313	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	31.68	7.07
		For Installation Above 14', Add		2.12	
		For Work In Restricted Working Space, Add		4.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.24	
26 05 33 13-1314	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	34.29	8.16
		For Installation Above 14', Add		2.45	
		For Work In Restricted Working Space, Add		4.89	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.89	
26 05 33 13-1315	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	39.65	10.33
		For Installation Above 14', Add		3.10	
		For Work In Restricted Working Space, Add		6.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.20	
26 05 33 13-1316	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	46.88	11.96
		For Installation Above 14', Add		3.59	
		For Work In Restricted Working Space, Add		7.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.18	
26 05 33 13-1317	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	50.97	13.59
		For Installation Above 14', Add		4.08	
		For Work In Restricted Working Space, Add		8.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.15	
26 05 33 13-1318	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	55.75	15.23
		For Installation Above 14', Add		4.57	
		For Work In Restricted Working Space, Add		9.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.13	
26 05 33 13-1319	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	33.69	7.07
		For Installation Above 14', Add		2.12	
		For Work In Restricted Working Space, Add		4.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.24	
26 05 33 13-1320	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	36.29	8.16
		For Installation Above 14', Add		2.45	
		For Work In Restricted Working Space, Add		4.89	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.89	
26 05 33 13-1321	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	41.80	10.33
		For Installation Above 14', Add		3.10	
		For Work In Restricted Working Space, Add		6.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.20	
26 05 33 13-1322	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	48.10	11.96
		For Installation Above 14', Add		3.59	
		For Work In Restricted Working Space, Add		7.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.18	
26 05 33 13-1323	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	52.32	13.59
		For Installation Above 14', Add		4.08	
		For Work In Restricted Working Space, Add		8.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.15	
26 05 33 13-1324	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	58.11	15.23
		For Installation Above 14', Add		4.57	
		For Work In Restricted Working Space, Add		9.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.13	
26 05 33 13-1325	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	80.89	18.48
		For Installation Above 14', Add		5.55	
		For Work In Restricted Working Space, Add		11.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		11.09	
26 05 33 13-1326	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	104.85	25.55
		For Installation Above 14', Add		7.67	
		For Work In Restricted Working Space, Add		15.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		15.33	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1327	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	33.83	7.07	
		For Installation Above 14', Add	2.12		
		For Work In Restricted Working Space, Add	4.24		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24		
26 05 33 13-1328	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	36.56	8.16	
		For Installation Above 14', Add	2.45		
		For Work In Restricted Working Space, Add	4.89		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.89		
26 05 33 13-1329	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.09	10.33	
		For Installation Above 14', Add	3.10		
		For Work In Restricted Working Space, Add	6.20		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.20		
26 05 33 13-1330	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.32	11.96	
		For Installation Above 14', Add	3.59		
		For Work In Restricted Working Space, Add	7.18		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18		
26 05 33 13-1331	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	53.67	13.59	
		For Installation Above 14', Add	4.08		
		For Work In Restricted Working Space, Add	8.15		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15		
26 05 33 13-1332	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	60.47	15.23	
		For Installation Above 14', Add	4.57		
		For Work In Restricted Working Space, Add	9.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.13		
26 05 33 13-1333	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	82.97	18.48	
		For Installation Above 14', Add	5.55		
		For Work In Restricted Working Space, Add	11.09		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.09		
26 05 33 13-1334	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	109.34	25.55	
		For Installation Above 14', Add	7.67		
		For Work In Restricted Working Space, Add	15.33		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33		
26 05 33 13-1335	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	130.24	28.82	
		For Installation Above 14', Add	8.64		
		For Work In Restricted Working Space, Add	17.29		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.29		
26 05 33 13-1336	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	152.72	37.52	
		For Installation Above 14', Add	11.25		
		For Work In Restricted Working Space, Add	22.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.51		
26 05 33 13-1337	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	34.11	7.07	
		For Installation Above 14', Add	2.12		
		For Work In Restricted Working Space, Add	4.24		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24		
26 05 33 13-1338	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	36.86	8.16	
		For Installation Above 14', Add	2.45		
		For Work In Restricted Working Space, Add	4.89		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.89		
26 05 33 13-1339	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.41	10.33	
		For Installation Above 14', Add	3.10		
		For Work In Restricted Working Space, Add	6.20		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.20		
26 05 33 13-1340	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.89	11.96	
		For Installation Above 14', Add	3.59		
		For Work In Restricted Working Space, Add	7.18		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18		
26 05 33 13-1341	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	54.26	13.59	
		For Installation Above 14', Add	4.08		
		For Work In Restricted Working Space, Add	8.15		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15		
26 05 33 13-1342	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	61.76	15.23	
		For Installation Above 14', Add	4.57		
		For Work In Restricted Working Space, Add	9.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.13		
26 05 33 13-1343	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	91.28	18.48	
		For Installation Above 14', Add	5.55		
		For Work In Restricted Working Space, Add	11.09		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.09		
26 05 33 13-1344	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	116.06	25.55	
		For Installation Above 14', Add	7.67		
		For Work In Restricted Working Space, Add	15.33		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33		
26 05 33 13-1345	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	131.67	28.82	
		For Installation Above 14', Add	8.64		
		For Work In Restricted Working Space, Add	17.29		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.29		
26 05 33 13-1346	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	156.55	37.52	
		For Installation Above 14', Add	11.25		
		For Work In Restricted Working Space, Add	22.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.51		
26 05 33 13-1347	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	230.12	51.65	
		For Installation Above 14', Add	15.50		
		For Work In Restricted Working Space, Add	30.99		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.99		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1348 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 34.63		7.07
For Installation Above 14', Add	2.12	
For Work In Restricted Working Space, Add	4.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24	
26 05 33 13-1349 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 37.38		8.16
For Installation Above 14', Add	2.45	
For Work In Restricted Working Space, Add	4.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.89	
26 05 33 13-1350 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 42.98		10.33
For Installation Above 14', Add	3.10	
For Work In Restricted Working Space, Add	6.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.20	
26 05 33 13-1351 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 50.95		11.96
For Installation Above 14', Add	3.59	
For Work In Restricted Working Space, Add	7.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18	
26 05 33 13-1352 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 55.52		13.59
For Installation Above 14', Add	4.08	
For Work In Restricted Working Space, Add	8.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 05 33 13-1353 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 63.04		15.23
For Installation Above 14', Add	4.57	
For Work In Restricted Working Space, Add	9.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.13	
26 05 33 13-1354 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 99.71		18.48
For Installation Above 14', Add	5.55	
For Work In Restricted Working Space, Add	11.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.09	
26 05 33 13-1355 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 124.99		25.55
For Installation Above 14', Add	7.67	
For Work In Restricted Working Space, Add	15.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	
26 05 33 13-1356 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 139.72		28.82
For Installation Above 14', Add	8.64	
For Work In Restricted Working Space, Add	17.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.29	
26 05 33 13-1357 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 170.12		37.52
For Installation Above 14', Add	11.25	
For Work In Restricted Working Space, Add	22.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.51	
26 05 33 13-1358 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 250.41		51.65
For Installation Above 14', Add	15.50	
For Work In Restricted Working Space, Add	30.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.99	
26 05 33 13-1359 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 35.46		7.07
For Installation Above 14', Add	2.12	
For Work In Restricted Working Space, Add	4.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24	
26 05 33 13-1360 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 38.18		8.16
For Installation Above 14', Add	2.45	
For Work In Restricted Working Space, Add	4.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.89	
26 05 33 13-1361 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 44.24		10.33
For Installation Above 14', Add	3.10	
For Work In Restricted Working Space, Add	6.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.20	
26 05 33 13-1362 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 51.22		11.96
For Installation Above 14', Add	3.59	
For Work In Restricted Working Space, Add	7.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18	
26 05 33 13-1363 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 58.09		13.59
For Installation Above 14', Add	4.08	
For Work In Restricted Working Space, Add	8.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 05 33 13-1364 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 69.32		15.23
For Installation Above 14', Add	4.57	
For Work In Restricted Working Space, Add	9.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.13	
26 05 33 13-1365 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 110.07		18.48
For Installation Above 14', Add	5.55	
For Work In Restricted Working Space, Add	11.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.09	
26 05 33 13-1366 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 137.22		25.55
For Installation Above 14', Add	7.67	
For Work In Restricted Working Space, Add	15.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33	
26 05 33 13-1367 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 159.87		28.82
For Installation Above 14', Add	8.64	
For Work In Restricted Working Space, Add	17.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.29	
26 05 33 13-1368 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple 190.50		37.52
For Installation Above 14', Add	11.25	
For Work In Restricted Working Space, Add	22.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1369	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	264.32	51.65	
		For Installation Above 14', Add	15.50		
		For Work In Restricted Working Space, Add	30.99		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.99		
26 05 33 13-1370	EA	1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	36.32	7.07	
		For Installation Above 14', Add	2.12		
		For Work In Restricted Working Space, Add	4.24		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24		
26 05 33 13-1371	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	39.03	8.16	
		For Installation Above 14', Add	2.45		
		For Work In Restricted Working Space, Add	4.89		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.89		
26 05 33 13-1372	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	45.48	10.33	
		For Installation Above 14', Add	3.10		
		For Work In Restricted Working Space, Add	6.20		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.20		
26 05 33 13-1373	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	55.01	11.96	
		For Installation Above 14', Add	3.59		
		For Work In Restricted Working Space, Add	7.18		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18		
26 05 33 13-1374	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	64.21	13.59	
		For Installation Above 14', Add	4.08		
		For Work In Restricted Working Space, Add	8.15		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15		
26 05 33 13-1375	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	78.55	15.23	
		For Installation Above 14', Add	4.57		
		For Work In Restricted Working Space, Add	9.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.13		
26 05 33 13-1376	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	121.03	18.48	
		For Installation Above 14', Add	5.55		
		For Work In Restricted Working Space, Add	11.09		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.09		
26 05 33 13-1377	EA	3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	152.87	25.55	
		For Installation Above 14', Add	7.67		
		For Work In Restricted Working Space, Add	15.33		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33		
26 05 33 13-1378	EA	3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	181.03	28.82	
		For Installation Above 14', Add	8.64		
		For Work In Restricted Working Space, Add	17.29		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.29		
26 05 33 13-1379	EA	4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	226.16	37.52	
		For Installation Above 14', Add	11.25		
		For Work In Restricted Working Space, Add	22.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.51		
26 05 33 13-1380	EA	5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	292.07	51.65	
		For Installation Above 14', Add	15.50		
		For Work In Restricted Working Space, Add	30.99		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.99		
26 05 33 13-1381	EA	1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	37.21	7.07	
		For Installation Above 14', Add	2.12		
		For Work In Restricted Working Space, Add	4.24		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24		
26 05 33 13-1382	EA	3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	40.02	8.16	
		For Installation Above 14', Add	2.45		
		For Work In Restricted Working Space, Add	4.89		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.89		
26 05 33 13-1383	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	48.65	10.33	
		For Installation Above 14', Add	3.10		
		For Work In Restricted Working Space, Add	6.20		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.20		
26 05 33 13-1384	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	61.25	11.96	
		For Installation Above 14', Add	3.59		
		For Work In Restricted Working Space, Add	7.18		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18		
26 05 33 13-1385	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	71.60	13.59	
		For Installation Above 14', Add	4.08		
		For Work In Restricted Working Space, Add	8.15		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15		
26 05 33 13-1386	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	85.97	15.23	
		For Installation Above 14', Add	4.57		
		For Work In Restricted Working Space, Add	9.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.13		
26 05 33 13-1387	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	135.66	18.48	
		For Installation Above 14', Add	5.55		
		For Work In Restricted Working Space, Add	11.09		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.09		
26 05 33 13-1388	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	176.35	25.55	
		For Installation Above 14', Add	7.67		
		For Work In Restricted Working Space, Add	15.33		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.33		
26 05 33 13-1389	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	194.01	28.82	
		For Installation Above 14', Add	8.64		
		For Work In Restricted Working Space, Add	17.29		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.29		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1390 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	237.09 11.25 22.51 22.51	37.52
26 05 33 13-1391 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	296.04 15.50 30.99 30.99	51.65
26 05 33 13-1392 Aluminum Conduit (26 05 33 13-0058) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1393 Aluminum Conduit With Threaded Coupling (26 05 33 13-1392) Note: Includes field bend conduit up to 1".		
26 05 33 13-1394 LF 1/2" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	5.20 0.63 1.25	1.67
26 05 33 13-1395 LF 3/4" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	5.96 0.69 1.38	1.84
26 05 33 13-1396 LF 1" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	6.96 0.75 1.51	2.00
26 05 33 13-1397 LF 1-1/4" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	7.97 0.81 1.63	2.18
26 05 33 13-1398 LF 1-1/2" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	9.00 0.88 1.76	2.35
26 05 33 13-1399 LF 2" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	10.91 1.01 2.01	2.68
26 05 33 13-1400 LF 2-1/2" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	15.02 1.26 2.51	3.35
26 05 33 13-1401 LF 3" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	18.78 1.50 3.01	4.02
26 05 33 13-1402 LF 3-1/2" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	23.05 1.88 3.77	5.02
26 05 33 13-1403 LF 4" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	28.33 2.39 4.77	6.35
26 05 33 13-1404 LF 5" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	37.87 3.01 6.02	8.03
26 05 33 13-1405 LF 6" Aluminum Conduit With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	48.52 3.77 7.53	10.03
26 05 33 13-1406 Aluminum 90 Degree Elbows (26 05 33 13-1392)		
26 05 33 13-1407 EA 1" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	32.59 6.53	8.70
26 05 33 13-1408 EA 1-1/4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	41.90 7.40	9.87
26 05 33 13-1409 EA 1-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	51.35 8.53	11.38
26 05 33 13-1410 EA 2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	66.36 9.79	13.05
26 05 33 13-1411 EA 2-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	96.57 11.92	15.90
26 05 33 13-1412 EA 3" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	139.24 15.43	20.58
26 05 33 13-1413 EA 3-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	194.64 17.31	23.08
26 05 33 13-1414 EA 4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	234.72 21.71	28.94
26 05 33 13-1415 EA 5" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	598.01 35.38	47.18
26 05 33 13-1416 EA 6" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	841.54 53.20	70.94
26 05 33 13-1417 Aluminum Bushing Set With Locknut (26 05 33 13-1392)		
26 05 33 13-1418 EA 1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.19 2.51 2.51	3.35
26 05 33 13-1419 EA 3/4" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.20 3.26 3.26	4.35



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1420	EA		1" Aluminum Bushing Set With Locknut.....	13.91	5.35
			For Work In Restricted Working Space, Add	4.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.01	
26 05 33 13-1421	EA		1-1/4" Aluminum Bushing Set With Locknut	15.65	6.02
			For Work In Restricted Working Space, Add	4.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-1422	EA		1-1/2" Aluminum Bushing Set With Locknut	19.16	7.36
			For Work In Restricted Working Space, Add	5.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-1423	EA		2" Aluminum Bushing Set With Locknut.....	23.42	8.87
			For Work In Restricted Working Space, Add	6.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	
26 05 33 13-1424	EA		2-1/2" Aluminum Bushing Set With Locknut	28.92	10.54
			For Work In Restricted Working Space, Add	7.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.91	
26 05 33 13-1425	EA		3" Aluminum Bushing Set With Locknut.....	33.91	12.05
			For Work In Restricted Working Space, Add	9.03	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 05 33 13-1426	EA		3-1/2" Aluminum Bushing Set With Locknut	36.68	13.05
			For Work In Restricted Working Space, Add	9.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.79	
26 05 33 13-1427	EA		4" Aluminum Bushing Set With Locknut.....	39.99	14.05
			For Work In Restricted Working Space, Add	10.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	
26 05 33 13-1428	EA		5" Aluminum Bushing Set With Locknut.....	52.92	18.73
			For Work In Restricted Working Space, Add	14.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.05	
26 05 33 13-1429	EA		6" Aluminum Bushing Set With Locknut.....	78.61	28.11
			For Work In Restricted Working Space, Add	21.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
26 05 33 13-1430			Schedule 40 Polyvinyl Chloride (PVC) Conduit (26 05 33 13-0058)		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1431			Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings (26 05 33 13-1430)		
			Note: Includes field bend conduit up to 1".		
26 05 33 13-1432	LF		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	3.42	1.29
			For Schedule 60, Add	0.21	
			For Schedule 80, Add	0.39	
26 05 33 13-1433	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	3.81	1.41
			For Schedule 60, Add	0.24	
			For Schedule 80, Add	0.45	
26 05 33 13-1434	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	4.52	1.65
			For Schedule 60, Add	0.31	
			For Schedule 80, Add	0.55	
26 05 33 13-1435	LF		1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings	5.24	1.88
			For Schedule 60, Add	0.37	
			For Schedule 80, Add	0.66	
26 05 33 13-1436	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings	6.14	2.19
			For Schedule 60, Add	0.44	
			For Schedule 80, Add	0.77	
26 05 33 13-1437	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	7.12	2.51
			For Schedule 60, Add	0.52	
			For Schedule 80, Add	0.92	
26 05 33 13-1438	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings	8.79	2.98
			For Schedule 60, Add	0.71	
			For Schedule 80, Add	1.21	
26 05 33 13-1439	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	10.23	3.46
			For Schedule 60, Add	0.83	
			For Schedule 80, Add	1.42	
26 05 33 13-1440	LF		3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings	12.25	4.09
			For Schedule 60, Add	1.02	
			For Schedule 80, Add	1.74	
26 05 33 13-1441	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	14.80	5.03
			For Schedule 60, Add	1.19	
			For Schedule 80, Add	2.04	
26 05 33 13-1442	LF		5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	20.91	7.06
			For Schedule 60, Add	1.70	
			For Schedule 80, Add	2.90	
26 05 33 13-1443	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	27.84	9.41
			For Schedule 60, Add	2.25	
			For Schedule 80, Add	3.86	
26 05 33 13-1444			Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows (26 05 33 13-1430)		
			See CSI section 26 05 33 13-2404 for conduit field bending.		
26 05 33 13-1445	EA		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	16.46	6.28
			See CSI section 26 05 33 13-2404 for conduit field bending.		
			For Schedule 60, Add	0.98	
			For Schedule 80, Add	1.84	
26 05 33 13-1446	EA		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	18.15	6.91
			See CSI section 26 05 33 13-2404 for conduit field bending.		
			For Schedule 60, Add	1.08	
			For Schedule 80, Add	2.04	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1447	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	21.03 1.33 2.46	7.85
26 05 33 13-1448	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	27.17 1.77 3.23	10.05
26 05 33 13-1449	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	34.17 2.26 4.11	12.56
26 05 33 13-1450	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	42.94 2.89 5.22	15.69
26 05 33 13-1451	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	54.02 4.09 7.13	18.84
26 05 33 13-1452	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	66.61 5.66 9.58	21.97
26 05 33 13-1453	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	83.11 7.43 12.41	26.68
26 05 33 13-1454	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	99.61 9.20 15.24	31.40
26 05 33 13-1455	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	134.62 14.03 22.59	39.24
26 05 33 13-1456	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	164.34 17.54 28.08	47.09
26 05 33 13-1457 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows (26 05 33 13-1430)				
26 05 33 13-1458	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	16.31 0.94 1.79	6.28
26 05 33 13-1459	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	18.09 1.07 2.01	6.91
26 05 33 13-1460	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	20.94 1.31 2.42	7.85
26 05 33 13-1461	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	26.92 1.71 3.14	10.05
26 05 33 13-1462	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	33.62 2.13 3.92	12.56
26 05 33 13-1463	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	42.64 2.81 5.11	15.69
26 05 33 13-1464	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	53.47 3.95 6.94	18.84
26 05 33 13-1465	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	65.91 5.49 9.33	21.97
26 05 33 13-1466	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	81.14 6.94 11.72	26.68
26 05 33 13-1467	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	97.92 8.78 14.65	31.40



		Electrical	26
		Common Work Results For Electrical	26 05
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1468 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	132.43 13.48 21.82	39.24
26 05 33 13-1469 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2404 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	157.81 15.90 25.80	47.09
26 05 33 13-1470 Polyvinyl Chloride (PVC) Conduit Adapters (26 05 33 13-1430)		
26 05 33 13-1471 EA 1/2" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.34 3.30	4.40
26 05 33 13-1472 EA 3/4" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.02 3.77	5.03
26 05 33 13-1473 EA 1" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.77 4.24	5.65
26 05 33 13-1474 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.57 4.71	6.28
26 05 33 13-1475 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.54 5.89	7.85
26 05 33 13-1476 EA 2" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.80 7.07	9.41
26 05 33 13-1477 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.93 9.42	12.56
26 05 33 13-1478 EA 3" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.76 11.77	15.69
26 05 33 13-1479 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.53 15.31	20.41
26 05 33 13-1480 EA 4" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.41 18.84	25.12
26 05 33 13-1481 EA 5" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.60 23.55	31.40
26 05 33 13-1482 EA 6" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.05 29.44	39.24
26 05 33 13-1483 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1430)		
26 05 33 13-1484 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.52 2.82	3.77
26 05 33 13-1485 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.26 3.30	4.40
26 05 33 13-1486 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.04 3.77	5.03
26 05 33 13-1487 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.90 4.24	5.65
26 05 33 13-1488 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.99 4.71	6.28
26 05 33 13-1489 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.85 5.42	7.22
26 05 33 13-1490 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.85 6.12	8.16
26 05 33 13-1491 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.61 7.07	9.41
26 05 33 13-1492 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.38 8.24	10.99
26 05 33 13-1493 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.31 9.42	12.56
26 05 33 13-1494 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.11 10.60	14.13
26 05 33 13-1495 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.91 11.77	15.69
26 05 33 13-1496 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1430)		
26 05 33 13-1497 EA 1/2" Polyvinyl Chloride (PVC) Conduit Terminal Adapter..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37 3.62	
26 05 33 13-1498 EA 3/4" Polyvinyl Chloride (PVC) Conduit Terminal Adapter..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.93 4.34	
26 05 33 13-1499 EA 1" Polyvinyl Chloride (PVC) Conduit Terminal Adapter..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.62 4.82	
26 05 33 13-1500 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Terminal Adapter..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.63 5.37	
26 05 33 13-1501 Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover (26 05 33 13-1430)		
26 05 33 13-1502 EA 1/2" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.96 9.42	12.56
26 05 33 13-1503 EA 3/4" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.35 10.60	14.13
26 05 33 13-1504 EA 1" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.76 11.77	15.69

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1505 EA 1-1/4" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.99 14.13	18.84
26 05 33 13-1506 EA 1-1/2" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.07 17.66	23.55
26 05 33 13-1507 EA 2" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.94 21.19	28.25
26 05 33 13-1508 EA 2-1/2" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	141.23 23.55	31.40
26 05 33 13-1509 EA 3" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	151.20 25.90	34.53
26 05 33 13-1510 EA 3-1/2" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	165.04 29.44	39.24
26 05 33 13-1511 EA 4" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	184.94 34.14	45.52
26 05 33 13-1512 Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover (26 05 33 13-1430)		
26 05 33 13-1513 EA 1/2" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Schedule 60, Add For Schedule 80, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.56 3.27 5.84 12.55	16.73
26 05 33 13-1514 EA 3/4" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Schedule 60, Add For Schedule 80, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.88 3.77 6.66 13.80	18.40
26 05 33 13-1515 EA 1" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Schedule 60, Add For Schedule 80, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.13 3.99 7.10 15.06	20.08
26 05 33 13-1516 EA 1-1/4" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Schedule 60, Add For Schedule 80, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.41 5.64 9.65 17.57	23.42
26 05 33 13-1517 EA 1-1/2" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Schedule 60, Add For Schedule 80, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.84 6.74 11.57 21.33	28.44
26 05 33 13-1518 EA 2" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover For Schedule 60, Add For Schedule 80, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.10 8.80 14.83 25.09	33.46
26 05 33 13-1519 Polyvinyl Chloride (PVC) Conduit Expansion Joint (26 05 33 13-1430)		
26 05 33 13-1520 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	70.28	15.69
26 05 33 13-1521 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	78.86	18.84
26 05 33 13-1522 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	87.93	21.97
26 05 33 13-1523 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	96.49	25.12
26 05 33 13-1524 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	104.85	28.25
26 05 33 13-1525 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	114.53	31.40
26 05 33 13-1526 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	139.12	36.11
26 05 33 13-1527 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	165.55	40.81
26 05 33 13-1528 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	193.46	47.09
26 05 33 13-1529 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	229.58	54.95
26 05 33 13-1530 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	299.18	65.93
26 05 33 13-1531 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	392.68	84.77
26 05 33 13-1532 Polyvinyl Chloride (PVC) Conduit End Caps (26 05 33 13-1430)		
26 05 33 13-1533 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.45 2.36	3.13
26 05 33 13-1534 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.16 2.82	3.77
26 05 33 13-1535 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.87 3.30	4.40
26 05 33 13-1536 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.26 3.77	5.03
26 05 33 13-1537 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.68 4.24	5.65
26 05 33 13-1538 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.59 4.71	6.28
26 05 33 13-1539 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.73 5.42	7.22
26 05 33 13-1540 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.56 6.12	8.16
26 05 33 13-1541 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.81 6.83	9.10
26 05 33 13-1542 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.57 7.30	9.74
26 05 33 13-1543 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.45 8.24	10.99
26 05 33 13-1544 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.32 9.42	12.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1545 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-1430)		
26 05 33 13-1546 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.74 21.19	28.25
26 05 33 13-1547 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.67 14.13	18.84
26 05 33 13-1548 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	205.99 23.55	31.40
26 05 33 13-1549 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	391.40 34.14	45.52
26 05 33 13-1550 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-0058) Note: Exposed installation. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1551 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1550)		
26 05 33 13-1552 LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	5.02	1.29
26 05 33 13-1553 LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	5.57	1.41
26 05 33 13-1554 LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	6.27	1.63
26 05 33 13-1555 LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	6.98	1.88
26 05 33 13-1556 LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	7.95	2.19
26 05 33 13-1557 LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	8.80	2.51
26 05 33 13-1558 LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	10.47	2.98
26 05 33 13-1559 LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	12.25	3.46
26 05 33 13-1560 LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	14.28	4.09
26 05 33 13-1561 LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	17.08	5.03
26 05 33 13-1562 LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	23.31	7.06
26 05 33 13-1563 LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	30.62	9.41
26 05 33 13-1564 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1550)		
26 05 33 13-1565 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	49.08	6.28
For 24" Radius, Add	3.29	
For 36" Radius, Add	4.91	
For 48" Radius, Add	6.53	
26 05 33 13-1566 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	54.65	6.91
For 24" Radius, Add	3.67	
For 36" Radius, Add	5.47	
For 48" Radius, Add	7.26	
26 05 33 13-1567 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	57.38	7.85
For 24" Radius, Add	3.81	
For 36" Radius, Add	5.74	
For 48" Radius, Add	7.66	
26 05 33 13-1568 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	63.25	10.05
For 24" Radius, Add	4.12	
For 36" Radius, Add	6.33	
For 48" Radius, Add	8.53	
26 05 33 13-1569 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	69.91	12.56
For 24" Radius, Add	4.46	
For 36" Radius, Add	6.99	
For 48" Radius, Add	9.52	
26 05 33 13-1570 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	83.06	15.69
For 24" Radius, Add	5.25	
For 36" Radius, Add	8.31	
For 48" Radius, Add	11.36	
26 05 33 13-1571 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	99.53	18.84
For 24" Radius, Add	6.29	
For 36" Radius, Add	9.95	
For 48" Radius, Add	13.62	
26 05 33 13-1572 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	117.88	21.97
For 24" Radius, Add	7.47	
For 36" Radius, Add	11.79	
For 48" Radius, Add	16.11	
26 05 33 13-1573 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	137.52	26.68
For 24" Radius, Add	8.65	
For 36" Radius, Add	13.75	
For 48" Radius, Add	18.86	
26 05 33 13-1574 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	157.16	31.40
For 24" Radius, Add	9.82	
For 36" Radius, Add	15.72	
For 48" Radius, Add	21.61	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1575	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	196.45 12.28 19.65 27.01	39.24
26 05 33 13-1576	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	240.65 15.11 24.07 33.02	47.09
26 05 33 13-1577 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1550)				
26 05 33 13-1578	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	43.07 2.84 4.31 5.78	6.28
26 05 33 13-1579	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	47.92 3.16 4.79 6.42	6.91
26 05 33 13-1580	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	50.58 3.30 5.06 6.81	7.85
26 05 33 13-1581	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	56.38 3.60 5.64 7.68	10.05
26 05 33 13-1582	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	62.97 3.94 6.30 8.66	12.56
26 05 33 13-1583	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	75.17 4.66 7.52 10.38	15.69
26 05 33 13-1584	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	90.09 5.58 9.01 12.44	18.84
26 05 33 13-1585	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	106.55 6.62 10.66 14.69	21.97
26 05 33 13-1586	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	124.77 7.69 12.48 17.26	26.68
26 05 33 13-1587	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	143.00 8.76 14.30 19.84	31.40
26 05 33 13-1588	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	178.75 10.95 17.88 24.80	39.24
26 05 33 13-1589	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	218.53 13.45 21.85 30.26	47.09
26 05 33 13-1590 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1550)				
26 05 33 13-1591	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	39.84 2.63 3.98 5.33	5.65
26 05 33 13-1592	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	44.32 2.94 4.43 5.93	6.22
26 05 33 13-1593	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	46.73 3.06 4.67 6.28	7.06
26 05 33 13-1594	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	51.97 3.33 5.20 7.06	9.04



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1595	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	57.90	11.30
			For 24" Radius, Add	3.64	
			For 36" Radius, Add	5.79	
			For 48" Radius, Add	7.94	
26 05 33 13-1596	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	69.07	14.13
			For 24" Radius, Add	4.30	
			For 36" Radius, Add	6.91	
			For 48" Radius, Add	9.52	
26 05 33 13-1597	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	82.77	16.96
			For 24" Radius, Add	5.15	
			For 36" Radius, Add	8.28	
			For 48" Radius, Add	11.41	
26 05 33 13-1598	EA	3"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	97.91	19.78
			For 24" Radius, Add	6.11	
			For 36" Radius, Add	9.79	
			For 48" Radius, Add	13.48	
26 05 33 13-1599	EA	3-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	114.55	24.02
			For 24" Radius, Add	7.09	
			For 36" Radius, Add	11.46	
			For 48" Radius, Add	15.82	
26 05 33 13-1600	EA	4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	131.21	28.25
			For 24" Radius, Add	8.07	
			For 36" Radius, Add	13.12	
			For 48" Radius, Add	18.17	
26 05 33 13-1601	EA	5"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	164.02	35.33
			For 24" Radius, Add	10.09	
			For 36" Radius, Add	16.40	
			For 48" Radius, Add	22.71	
26 05 33 13-1602	EA	6"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	200.61	42.39
			For 24" Radius, Add	12.40	
			For 36" Radius, Add	20.06	
			For 48" Radius, Add	27.73	
26 05 33 13-1603 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1550)					
26 05 33 13-1604	EA	1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	38.17	5.65
			For 24" Radius, Add	2.51	
			For 36" Radius, Add	3.82	
			For 48" Radius, Add	5.12	
26 05 33 13-1605	EA	3/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	42.45	6.22
			For 24" Radius, Add	2.80	
			For 36" Radius, Add	4.25	
			For 48" Radius, Add	5.69	
26 05 33 13-1606	EA	1"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	44.85	7.06
			For 24" Radius, Add	2.92	
			For 36" Radius, Add	4.49	
			For 48" Radius, Add	6.05	
26 05 33 13-1607	EA	1-1/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	50.06	9.04
			For 24" Radius, Add	3.19	
			For 36" Radius, Add	5.01	
			For 48" Radius, Add	6.82	
26 05 33 13-1608	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	55.97	11.30
			For 24" Radius, Add	3.49	
			For 36" Radius, Add	5.60	
			For 48" Radius, Add	7.70	
26 05 33 13-1609	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	66.88	14.13
			For 24" Radius, Add	4.13	
			For 36" Radius, Add	6.69	
			For 48" Radius, Add	9.24	
26 05 33 13-1610	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	80.15	16.96
			For 24" Radius, Add	4.95	
			For 36" Radius, Add	8.02	
			For 48" Radius, Add	11.08	
26 05 33 13-1611	EA	3"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	94.76	19.78
			For 24" Radius, Add	5.87	
			For 36" Radius, Add	9.48	
			For 48" Radius, Add	13.08	
26 05 33 13-1612	EA	3-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	111.01	24.02
			For 24" Radius, Add	6.82	
			For 36" Radius, Add	11.10	
			For 48" Radius, Add	15.38	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1613	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	127.28	28.25
			For 24" Radius, Add	7.78	
			For 36" Radius, Add	12.73	
			For 48" Radius, Add	17.68	
26 05 33 13-1614	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	159.10	35.33
			For 24" Radius, Add	9.73	
			For 36" Radius, Add	15.91	
			For 48" Radius, Add	22.10	
26 05 33 13-1615	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	194.47	42.39
			For 24" Radius, Add	11.94	
			For 36" Radius, Add	19.45	
			For 48" Radius, Add	26.96	
26 05 33 13-1616 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-1550)					
26 05 33 13-1617	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	24.81	4.40
26 05 33 13-1618	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	27.96	5.03
26 05 33 13-1619	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	29.69	5.65
26 05 33 13-1620	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	31.38	6.28
26 05 33 13-1621	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	35.63	7.85
26 05 33 13-1622	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	42.61	9.41
26 05 33 13-1623	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	54.34	12.56
26 05 33 13-1624	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	66.77	15.69
26 05 33 13-1625	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	81.99	20.41
26 05 33 13-1626	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	97.21	25.12
26 05 33 13-1627	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	121.51	31.40
26 05 33 13-1628	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	151.87	39.24
26 05 33 13-1629 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-1550)					
26 05 33 13-1630	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	18.79	4.40
26 05 33 13-1631	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	21.23	5.03
26 05 33 13-1632	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	22.89	5.65
26 05 33 13-1633	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	24.54	6.28
26 05 33 13-1634	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	28.56	7.85
26 05 33 13-1635	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	32.54	9.41
26 05 33 13-1636	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	42.19	12.56
26 05 33 13-1637	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	52.19	15.69
26 05 33 13-1638	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	65.59	20.41
26 05 33 13-1639	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	78.98	25.12
26 05 33 13-1640	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	98.75	31.40
26 05 33 13-1641	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	123.42	39.24
26 05 33 13-1642 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-1550)					
26 05 33 13-1643	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	20.69	3.61
26 05 33 13-1644	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	23.34	5.03
26 05 33 13-1645	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	25.02	5.65
26 05 33 13-1646	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	26.65	6.28
26 05 33 13-1647	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	30.83	7.85
26 05 33 13-1648	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	36.90	9.41
26 05 33 13-1649	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	47.41	12.56
26 05 33 13-1650	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	58.45	15.69
26 05 33 13-1651	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	72.63	20.41
26 05 33 13-1652	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	86.80	25.12
26 05 33 13-1653	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	108.49	31.40
26 05 33 13-1654	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	135.63	39.24
26 05 33 13-1655 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-1550)					
26 05 33 13-1656	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	49.92	15.69
26 05 33 13-1657	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	58.94	18.84
26 05 33 13-1658	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	66.93	21.97
26 05 33 13-1659	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	74.85	25.12
26 05 33 13-1660	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	82.98	28.25
26 05 33 13-1661	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	93.17	31.40
26 05 33 13-1662	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	107.88	36.11
26 05 33 13-1663	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	123.19	40.81
26 05 33 13-1664	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	141.53	47.09
26 05 33 13-1665	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	163.79	54.95
26 05 33 13-1666	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	190.02	62.79
26 05 33 13-1667	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	217.91	70.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1668 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-1550)		
26 05 33 13-1669 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	54.26	15.69
26 05 33 13-1670 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	63.81	18.84
26 05 33 13-1671 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	71.82	21.97
26 05 33 13-1672 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	79.79	25.12
26 05 33 13-1673 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	87.96	28.25
26 05 33 13-1674 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	98.86	31.40
26 05 33 13-1675 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	114.71	36.11
26 05 33 13-1676 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	131.38	40.81
26 05 33 13-1677 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	150.75	47.09
26 05 33 13-1678 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	174.04	54.95
26 05 33 13-1679 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	202.87	62.79
26 05 33 13-1680 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	233.97	70.64
26 05 33 13-1681 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-1550)		
26 05 33 13-1682 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	46.71	4.40
26 05 33 13-1683 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	52.25	5.03
26 05 33 13-1684 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	55.04	5.65
26 05 33 13-1685 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	57.87	6.28
26 05 33 13-1686 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	62.45	7.85
26 05 33 13-1687 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	70.46	9.41
26 05 33 13-1688 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	87.70	12.56
26 05 33 13-1689 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	106.76	15.69
26 05 33 13-1690 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	126.98	20.41
26 05 33 13-1691 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	147.20	25.12
26 05 33 13-1692 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	184.03	31.40
26 05 33 13-1693 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	229.23	39.24
26 05 33 13-1694 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-1550)		
26 05 33 13-1695 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	61.81	15.69
26 05 33 13-1696 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	72.17	18.84
26 05 33 13-1697 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	85.93	21.97
26 05 33 13-1698 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	104.56	25.12
26 05 33 13-1699 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	127.91	28.25
26 05 33 13-1700 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	163.36	31.40
26 05 33 13-1701 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	223.81	36.11
26 05 33 13-1702 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	267.64	40.81
26 05 33 13-1703 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	321.40	47.09
26 05 33 13-1704 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	379.08	54.95
26 05 33 13-1705 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	444.11	62.79
26 05 33 13-1706 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	664.06	70.64
26 05 33 13-1707 Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover (26 05 33 13-1550)		
26 05 33 13-1708 EA 1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	51.38	12.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.42
26 05 33 13-1709 EA 3/4" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	59.15	14.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		10.60
26 05 33 13-1710 EA 1" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	75.57	15.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		11.77
26 05 33 13-1711 EA 1-1/4" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	91.96	18.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		14.13
26 05 33 13-1712 EA 1-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	116.56	23.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		17.66
26 05 33 13-1713 EA 2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	156.11	28.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		21.19
26 05 33 13-1714 EA 2-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	242.68	32.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		24.73
26 05 33 13-1715 EA 3" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	307.87	37.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		28.26
26 05 33 13-1716 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	368.96	43.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		32.96
26 05 33 13-1717 EA 4" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	430.08	50.24
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		37.68

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1718 EA 5" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	504.53 42.38	56.51
26 05 33 13-1719 EA 6" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	570.98 47.09	62.79
26 05 33 13-1720 Explosion Proof Conduit Fittings (26 05 33 13-0058) Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
26 05 33 13-1721 Explosion Proof Malleable Iron Conduit Unions (26 05 33 13-1720)		
26 05 33 13-1722 EA 1/2" Explosion Proof Malleable Iron Conduit Union	30.74	6.96
26 05 33 13-1723 EA 3/4" Explosion Proof Malleable Iron Conduit Union	37.60	7.70
26 05 33 13-1724 EA 1" Explosion Proof Malleable Iron Conduit Union	58.96	10.27
26 05 33 13-1725 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union	77.28	11.36
26 05 33 13-1726 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union	97.11	13.93
26 05 33 13-1727 EA 2" Explosion Proof Malleable Iron Conduit Union	120.56	16.13
26 05 33 13-1728 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union	182.97	23.06
26 05 33 13-1729 EA 3" Explosion Proof Malleable Iron Conduit Union	231.90	27.45
26 05 33 13-1730 EA 3-1/2" Explosion Proof Malleable Iron Conduit Union	384.84	32.94
26 05 33 13-1731 EA 4" Explosion Proof Malleable Iron Conduit Union	410.66	42.09
26 05 33 13-1732 Explosion Proof Malleable Iron Conduit Bodies (26 05 33 13-1720)		
26 05 33 13-1733 EA 1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	107.94	21.99
26 05 33 13-1734 EA 3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	121.71	24.93
26 05 33 13-1735 EA 1" Explosion Proof Malleable Iron Two Hub Conduit Body	141.96	27.49
26 05 33 13-1736 EA 1 1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	122.69	27.49
26 05 33 13-1737 EA 3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	146.25	32.99
26 05 33 13-1738 EA 1" Explosion Proof Malleable Iron Three Hub Conduit Body	172.65	37.75
26 05 33 13-1739 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical (26 05 33 13-1720) Note: Includes sealing gasket and lock nut.		
26 05 33 13-1740 EA 1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	89.31	18.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.74	
26 05 33 13-1741 EA 3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	91.88	20.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.40	
26 05 33 13-1742 EA 1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	100.27	22.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.77	
26 05 33 13-1743 EA 1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	128.46	27.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.62	
26 05 33 13-1744 EA 1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	163.05	32.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.19	
26 05 33 13-1745 EA 2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	207.98	36.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.49	
26 05 33 13-1746 EA 2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	297.02	54.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.17	
26 05 33 13-1747 EA 3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	375.22	68.81
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.60	
26 05 33 13-1748 EA 3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	522.89	75.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.82	
26 05 33 13-1749 EA 4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	669.65	82.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.76	
26 05 33 13-1750 Explosion Proof Flexible Conduit Couplings (26 05 33 13-1720)		
26 05 33 13-1751 EA 1/2" x 12" Explosion Proof Flexible Conduit Coupling	226.08	8.43
26 05 33 13-1752 EA 3/4" x 15" Explosion Proof Flexible Conduit Coupling	295.31	9.53
26 05 33 13-1753 Flexible Conduit (26 05 33 13-0057)		
26 05 33 13-1754 Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-1753) Note: Steel inner core with PVC cover.		
26 05 33 13-1755 Flexible Liquid Tight Metallic Conduit (26 05 33 13-1754)		
26 05 33 13-1756 LF 3/8" Flexible Liquid Tight Metallic Conduit	3.44	1.00
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.38	
<i>For Work In Restricted Working Space, Add</i>	0.75	
26 05 33 13-1757 LF 1/2" Flexible Liquid Tight Metallic Conduit	3.58	1.00
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.38	
<i>For Work In Restricted Working Space, Add</i>	0.75	
26 05 33 13-1758 LF 3/4" Flexible Liquid Tight Metallic Conduit	4.80	1.34
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.50	
<i>For Work In Restricted Working Space, Add</i>	1.01	
26 05 33 13-1759 LF 1" Flexible Liquid Tight Metallic Conduit	5.54	1.34
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.50	
<i>For Work In Restricted Working Space, Add</i>	1.01	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1760	LF		1-1/4" Flexible Liquid Tight Metallic Conduit.....	7.16	1.67
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.63	
			For Work In Restricted Working Space, Add	1.25	
26 05 33 13-1761	LF		1-1/2" Flexible Liquid Tight Metallic Conduit.....	9.20	2.00
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.75	
			For Work In Restricted Working Space, Add	1.51	
26 05 33 13-1762	LF		2" Flexible Liquid Tight Metallic Conduit.....	12.11	2.68
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.01	
			For Work In Restricted Working Space, Add	2.01	
26 05 33 13-1763	LF		2-1/2" Flexible Liquid Tight Metallic Conduit.....	16.47	3.01
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.13	
			For Work In Restricted Working Space, Add	2.26	
26 05 33 13-1764	LF		3" Flexible Liquid Tight Metallic Conduit.....	24.24	3.68
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.38	
			For Work In Restricted Working Space, Add	2.76	
26 05 33 13-1765	LF		4" Flexible Liquid Tight Metallic Conduit.....	33.17	4.68
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.76	
			For Work In Restricted Working Space, Add	3.51	
26 05 33 13-1766 Straight Connector (26 05 33 13-1754)					
26 05 33 13-1767	EA		3/8" Straight Liquid Tight Connector.....	9.35	2.68
			For Work In Restricted Working Space, Add	2.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.01	
26 05 33 13-1768	EA		1/2" Straight Liquid Tight Connector.....	9.35	2.68
			For Work In Restricted Working Space, Add	2.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.01	
26 05 33 13-1769	EA		3/4" Straight Liquid Tight Connector.....	11.33	3.01
			For Work In Restricted Working Space, Add	2.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.26	
26 05 33 13-1770	EA		1" Straight Liquid Tight Connector.....	15.15	3.35
			For Work In Restricted Working Space, Add	2.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.51	
26 05 33 13-1771	EA		1-1/4" Straight Liquid Tight Connector.....	19.45	3.68
			For Work In Restricted Working Space, Add	2.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.76	
26 05 33 13-1772	EA		1-1/2" Straight Liquid Tight Connector.....	24.66	4.02
			For Work In Restricted Working Space, Add	3.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.01	
26 05 33 13-1773	EA		2" Straight Liquid Tight Connector.....	33.99	4.68
			For Work In Restricted Working Space, Add	3.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.51	
26 05 33 13-1774	EA		2-1/2" Straight Liquid Tight Connector.....	116.22	6.02
			For Work In Restricted Working Space, Add	4.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-1775	EA		3" Straight Liquid Tight Connector.....	149.87	6.35
			For Work In Restricted Working Space, Add	4.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-1776	EA		4" Straight Liquid Tight Connector.....	183.42	9.37
			For Work In Restricted Working Space, Add	7.03	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.03	
26 05 33 13-1777 90 Degree Angle Connector (26 05 33 13-1754)					
26 05 33 13-1778	EA		3/8" 90 Degree Angle Liquid Tight Connector.....	13.63	3.68
			For Work In Restricted Working Space, Add	2.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.76	
26 05 33 13-1779	EA		1/2" 90 Degree Angle Liquid Tight Connector.....	14.20	3.68
			For Work In Restricted Working Space, Add	2.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.76	
26 05 33 13-1780	EA		3/4" 90 Degree Angle Liquid Tight Connector.....	16.05	4.02
			For Work In Restricted Working Space, Add	3.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.01	
26 05 33 13-1781	EA		1" 90 Degree Angle Liquid Tight Connector.....	22.65	4.68
			For Work In Restricted Working Space, Add	3.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.51	
26 05 33 13-1782	EA		1-1/4" 90 Degree Angle Liquid Tight Connector.....	28.54	5.02
			For Work In Restricted Working Space, Add	3.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-1783	EA		1-1/2" 90 Degree Angle Liquid Tight Connector.....	34.62	5.35
			For Work In Restricted Working Space, Add	4.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.01	
26 05 33 13-1784	EA		2" 90 Degree Angle Liquid Tight Connector.....	45.82	6.02
			For Work In Restricted Working Space, Add	4.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-1785	EA		2-1/2" 90 Degree Angle Liquid Tight Connector.....	162.39	6.35
			For Work In Restricted Working Space, Add	4.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-1786	EA		3" 90 Degree Angle Liquid Tight Connector.....	191.88	7.36
			For Work In Restricted Working Space, Add	5.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-1787	EA		4" 90 Degree Angle Liquid Tight Connector.....	265.42	11.71
			For Work In Restricted Working Space, Add	8.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1788 45 Degree Angle Connector (26 05 33 13-1754)		
26 05 33 13-1789 EA 3/8" 45 Degree Angle Liquid Tight Connector.....	13.44	3.68
For Work In Restricted Working Space, Add	2.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.76	
26 05 33 13-1790 EA 1/2" 45 Degree Angle Liquid Tight Connector.....	13.57	3.68
For Work In Restricted Working Space, Add	2.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.76	
26 05 33 13-1791 EA 3/4" 45 Degree Angle Liquid Tight Connector.....	16.05	4.02
For Work In Restricted Working Space, Add	3.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.01	
26 05 33 13-1792 EA 1" 45 Degree Angle Liquid Tight Connector.....	24.20	4.68
For Work In Restricted Working Space, Add	3.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.51	
26 05 33 13-1793 EA 1-1/4" 45 Degree Angle Liquid Tight Connector.....	27.53	5.02
For Work In Restricted Working Space, Add	3.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-1794 EA 1-1/2" 45 Degree Angle Liquid Tight Connector.....	30.85	5.35
For Work In Restricted Working Space, Add	4.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.01	
26 05 33 13-1795 Flexible Metallic Conduit And Connectors (26 05 33 13-1753)		
26 05 33 13-1796 Flexible Steel Conduit (26 05 33 13-1795)		
26 05 33 13-1797 LF 3/8" Flexible Metallic Conduit.....	3.10	1.10
For Flexible Aluminum Conduit, Add	0.07	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.40	
For Installation In Metal Stud Wall, Add	0.27	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.67	
For Work In Restricted Working Space, Add	0.81	
26 05 33 13-1798 LF 1/2" Flexible Metallic Conduit.....	3.20	1.10
For Flexible Aluminum Conduit, Add	0.07	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.41	
For Installation In Metal Stud Wall, Add	0.28	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.69	
For Work In Restricted Working Space, Add	0.83	
26 05 33 13-1799 LF 3/4" Flexible Metallic Conduit.....	3.60	1.46
For Flexible Aluminum Conduit, Add	0.10	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.45	
For Installation In Metal Stud Wall, Add	0.30	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.75	
For Work In Restricted Working Space, Add	0.89	
26 05 33 13-1800 LF 1" Flexible Metallic Conduit.....	4.37	1.46
For Flexible Aluminum Conduit, Add	0.19	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.48	
For Installation In Metal Stud Wall, Add	0.32	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.80	
For Work In Restricted Working Space, Add	0.96	
26 05 33 13-1801 LF 1-1/4" Flexible Metallic Conduit.....	4.90	1.83
For Flexible Aluminum Conduit, Add	0.25	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.51	
For Installation In Metal Stud Wall, Add	0.34	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.85	
For Work In Restricted Working Space, Add	1.02	
26 05 33 13-1802 LF 1-1/2" Flexible Metallic Conduit.....	6.17	2.19
For Flexible Aluminum Conduit, Add	0.44	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.53	
For Installation In Metal Stud Wall, Add	0.35	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.88	
For Work In Restricted Working Space, Add	1.06	
26 05 33 13-1803 LF 2" Flexible Metallic Conduit.....	6.90	2.93
For Flexible Aluminum Conduit, Add	0.53	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.55	
For Installation In Metal Stud Wall, Add	0.37	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.92	
For Work In Restricted Working Space, Add	1.10	
26 05 33 13-1804 LF 2-1/2" Flexible Steel Conduit.....	8.50	3.30
For Flexible Aluminum Conduit, Add	0.65	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.69	
For Installation In Metal Stud Wall, Add	0.46	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.15	
For Work In Restricted Working Space, Add	1.37	
26 05 33 13-1805 LF 3" Flexible Metallic Conduit.....	12.30	4.03
For Flexible Aluminum Conduit, Add	1.12	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.82	
For Installation In Metal Stud Wall, Add	0.55	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.37	
For Work In Restricted Working Space, Add	1.65	
26 05 33 13-1806 LF 3-1/2" Flexible Metallic Conduit.....	14.98	4.39
For Flexible Aluminum Conduit, Add	1.42	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.96	
For Installation In Metal Stud Wall, Add	0.64	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.60	
For Work In Restricted Working Space, Add	1.92	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1807	LF	4" Flexible Metallic Conduit..... <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	17.21 1.63 1.10 0.73 1.83 2.19	5.12
26 05 33 13-1808 Plain Squeeze Type Straight Connector (26 05 33 13-1795)				
26 05 33 13-1809	EA	3/8" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.16 1.24 1.24	2.93
26 05 33 13-1810	EA	1/2" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.24 1.37 1.37	3.30
26 05 33 13-1811	EA	3/4" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.24 1.65 1.65	4.03
26 05 33 13-1812	EA	1" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.14 2.19 2.19	4.39
26 05 33 13-1813	EA	1-1/4" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.43 2.75 2.75	5.12
26 05 33 13-1814	EA	1-1/2" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.14 3.43 3.43	6.22
26 05 33 13-1815	EA	2" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.12 4.12 4.12	6.22
26 05 33 13-1816	EA	2-1/2" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.36 4.80 4.80	7.69
26 05 33 13-1817	EA	3" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.05 5.49 5.49	8.42
26 05 33 13-1818	EA	3-1/2" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.11 6.17 6.17	9.88
26 05 33 13-1819	EA	4" Flexible Straight Connectors, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	188.01 6.86 6.86	12.07
26 05 33 13-1820 Insulated Throat Squeeze Type Straight Connector (26 05 33 13-1795)				
26 05 33 13-1821	EA	1/2" Flexible Straight Connectors, Insulated..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.81 1.37 1.37	3.30
26 05 33 13-1822	EA	3/4" Flexible Straight Connectors, Insulated..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.99 1.65 1.65	4.03
26 05 33 13-1823	EA	1" Flexible Straight Connectors, Insulated..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.16 2.19 2.19	4.39
26 05 33 13-1824	EA	1-1/4" Flexible Straight Connectors, Insulated..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.30 2.75 2.75	5.12
26 05 33 13-1825	EA	1-1/2" Flexible Straight Connectors, Insulated..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.47 3.43 3.43	5.49
26 05 33 13-1826	EA	2" Flexible Straight Connectors, Insulated..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.00 4.12 4.12	6.22
26 05 33 13-1827	EA	2-1/2" Flexible Straight Connectors, Insulated..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.94 4.80 4.80	7.69
26 05 33 13-1828	EA	3" Flexible Straight Connectors, Insulated..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.89 5.49 5.49	8.42
26 05 33 13-1829	EA	3-1/2" Flexible Straight Connectors, Insulated..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.98 6.17 6.17	9.88
26 05 33 13-1830	EA	4" Flexible Straight Connectors, Insulated..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.40 6.86 6.86	12.07
26 05 33 13-1831 Plain Squeeze Type 90 Degree Connector (26 05 33 13-1795)				
26 05 33 13-1832	EA	3/8" Flexible 90 Degree Connector, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.16 1.65 1.65	3.66
26 05 33 13-1833	EA	1/2" Flexible 90 Degree Connector, Plain..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.20 1.92 1.92	4.03

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1834 EA 3/4" Flexible 90 Degree Connector, Plain 11.69		4.39
For Work In Restricted Working Space, Add	2.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.19	
26 05 33 13-1835 EA 1" Flexible 90 Degree Connector, Plain 16.07		5.12
For Work In Restricted Working Space, Add	2.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 05 33 13-1836 EA 1-1/4" Flexible 90 Degree Connector, Plain 24.11		5.49
For Work In Restricted Working Space, Add	3.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.29	
26 05 33 13-1837 EA 1-1/2" Flexible 90 Degree Connector, Plain 36.68		6.40
For Work In Restricted Working Space, Add	4.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 05 33 13-1838 EA 2" Flexible 90 Degree Connector, Plain 43.94		7.87
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-1839 EA 2-1/2" Flexible 90 Degree Connector, Plain 92.29		8.42
For Work In Restricted Working Space, Add	5.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 05 33 13-1840 EA 3" Flexible 90 Degree Connector, Plain 117.72		9.88
For Work In Restricted Working Space, Add	6.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.17	
26 05 33 13-1841 EA 3-1/2" Flexible 90 Degree Connector, Plain 243.78		12.07
For Work In Restricted Working Space, Add	6.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 05 33 13-1842 EA 4" Flexible 90 Degree Connector, Plain 431.67		13.73
For Work In Restricted Working Space, Add	8.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 33 13-1843 Insulated Throat Squeeze Type 90 Degree Connector (26 05 33 13-1795)		
26 05 33 13-1844 EA 1/2" Flexible 90 Degree Connector, Insulated 9.99		4.03
For Work In Restricted Working Space, Add	1.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.92	
26 05 33 13-1845 EA 3/4" Flexible 90 Degree Connector, Insulated 12.67		4.39
For Work In Restricted Working Space, Add	2.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.19	
26 05 33 13-1846 EA 1" Flexible 90 Degree Connector, Insulated 16.07		5.12
For Work In Restricted Working Space, Add	2.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 05 33 13-1847 EA 1-1/4" Flexible 90 Degree Connector, Insulated 27.59		5.49
For Work In Restricted Working Space, Add	3.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.29	
26 05 33 13-1848 EA 1-1/2" Flexible 90 Degree Connector, Insulated 42.99		6.40
For Work In Restricted Working Space, Add	4.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 05 33 13-1849 EA 2" Flexible 90 Degree Connector, Insulated 54.19		7.87
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-1850 EA 2-1/2" Flexible 90 Degree Connector, Insulated 124.34		8.42
For Work In Restricted Working Space, Add	5.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 05 33 13-1851 EA 3" Flexible 90 Degree Connector, Insulated 152.44		9.88
For Work In Restricted Working Space, Add	6.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.17	
26 05 33 13-1852 EA 3-1/2" Flexible 90 Degree Connector, Insulated 401.14		12.07
For Work In Restricted Working Space, Add	6.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 05 33 13-1853 EA 4" Flexible 90 Degree Connector, Insulated 596.49		13.73
For Work In Restricted Working Space, Add	8.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 33 13-1854 Plain Squeeze Type 45 Degree Connector (26 05 33 13-1795)		
26 05 33 13-1855 EA 3/8" Flexible 45 Degree Connector, Plain 7.80		3.66
For Work In Restricted Working Space, Add	1.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.65	
26 05 33 13-1856 EA 1/2" Flexible 45 Degree Connector, Plain 10.22		4.03
For Work In Restricted Working Space, Add	1.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.92	
26 05 33 13-1857 EA 3/4" Flexible 45 Degree Connector, Plain 12.84		4.39
For Work In Restricted Working Space, Add	2.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.19	
26 05 33 13-1858 Insulated Squeeze Type 45 Degree Connector (26 05 33 13-1795)		
26 05 33 13-1859 EA 3/8" Flexible 45 Degree Connector, Insulated 8.24		4.39
For Work In Restricted Working Space, Add	1.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.65	
26 05 33 13-1860 EA 1/2" Flexible 45 Degree Connector, Insulated 10.95		4.03
For Work In Restricted Working Space, Add	1.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.92	
26 05 33 13-1861 EA 3/4" Flexible 45 Degree Connector, Insulated 13.86		4.39
For Work In Restricted Working Space, Add	2.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.19	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1862		Plain Screw-In Connector (26 05 33 13-1795)		
26 05 33 13-1863	EA	3/8" Flexible Steel Screw-in Connector, Plain.....	4.51	2.93
		For Work In Restricted Working Space, Add	1.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.24	
26 05 33 13-1864	EA	1/2" Flexible Steel Screw-in Connector, Plain.....	4.90	3.30
		For Work In Restricted Working Space, Add	1.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.37	
26 05 33 13-1865	EA	3/4" Flexible Steel Screw-in Connector, Plain.....	6.14	4.03
		For Work In Restricted Working Space, Add	1.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.65	
26 05 33 13-1866	EA	1" Flexible Steel Screw-in Connector, Plain.....	8.62	4.39
		For Work In Restricted Working Space, Add	2.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.19	
26 05 33 13-1867	EA	1-1/4" Flexible Steel Screw-in Connector, Plain	12.21	5.12
		For Work In Restricted Working Space, Add	2.75	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 05 33 13-1868	EA	1-1/2" Flexible Steel Screw-in Connector, Plain	14.99	5.49
		For Work In Restricted Working Space, Add	3.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.43	
26 05 33 13-1869	EA	2" Flexible Steel Screw-in Connector, Plain.....	21.13	6.22
		For Work In Restricted Working Space, Add	4.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 05 33 13-1870		Insulated Screw-In Connector (26 05 33 13-1795)		
26 05 33 13-1871	EA	3/8" Flexible Steel Screw-in Connector, Insulated	4.70	2.93
		For Work In Restricted Working Space, Add	1.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.24	
26 05 33 13-1872	EA	1/2" Flexible Steel Screw-in Connector, Insulated	5.05	3.30
		For Work In Restricted Working Space, Add	1.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.37	
26 05 33 13-1873	EA	3/4" Flexible Steel Screw-in Connector, Insulated	6.53	4.03
		For Work In Restricted Working Space, Add	1.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.65	
26 05 33 13-1874	EA	1" Flexible Steel Screw-in Connector, Insulated	9.21	4.39
		For Work In Restricted Working Space, Add	2.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.19	
26 05 33 13-1875	EA	1-1/4" Flexible Steel Screw-in Connector, Insulated	13.05	5.12
		For Work In Restricted Working Space, Add	2.75	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 05 33 13-1876	EA	1-1/2" Flexible Steel Screw-in Connector, Insulated	16.00	5.49
		For Work In Restricted Working Space, Add	3.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.43	
26 05 33 13-1877	EA	2" Flexible Steel Screw-in Connector, Insulated	22.02	6.22
		For Work In Restricted Working Space, Add	4.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 05 33 13-1878		Screw-In Coupling (26 05 33 13-1795)		
26 05 33 13-1879	EA	1/2" Flexible Steel Screw-in Coupling	5.27	3.30
		For Work In Restricted Working Space, Add	1.37	
26 05 33 13-1880	EA	3/4" Flexible Steel Screw-in Coupling	6.75	4.03
		For Work In Restricted Working Space, Add	1.65	
26 05 33 13-1881		Flexible To Electrical Metallic Tubing (EMT) Coupling (26 05 33 13-1795)		
26 05 33 13-1882	EA	3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	6.47	2.93
		For Work In Restricted Working Space, Add	1.24	
26 05 33 13-1883	EA	1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	8.50	3.30
		For Work In Restricted Working Space, Add	1.37	
26 05 33 13-1884	EA	3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	11.07	4.03
		For Work In Restricted Working Space, Add	1.65	
26 05 33 13-1885		Die Cast Squeeze Type Straight Connector (26 05 33 13-1795)		
26 05 33 13-1886	EA	3/8" Flexible Straight Connector, Die Cast.....	4.62	2.93
		For Work In Restricted Working Space, Add	1.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.24	
26 05 33 13-1887	EA	1/2" Flexible Straight Connector, Die Cast.....	5.21	3.30
		For Work In Restricted Working Space, Add	1.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.37	
26 05 33 13-1888	EA	3/4" Flexible Straight Connector, Die Cast.....	6.40	4.03
		For Work In Restricted Working Space, Add	1.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.65	
26 05 33 13-1889	EA	1" Flexible Straight Connector, Die Cast.....	9.34	4.39
		For Work In Restricted Working Space, Add	2.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.19	
26 05 33 13-1890	EA	1-1/4" Flexible Straight Connector, Die Cast	12.39	5.12
		For Work In Restricted Working Space, Add	2.75	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1891 EA 1-1/2" Flexible Straight Connector, Die Cast.....	16.52	5.49
For Work In Restricted Working Space, Add	3.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.43	
26 05 33 13-1892 EA 2" Flexible Straight Connector, Die Cast.....	21.05	6.22
For Work In Restricted Working Space, Add	4.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 05 33 13-1893 Die Cast Squeeze Type 90 Degree Connector (26 05 33 13-1795)		
26 05 33 13-1894 EA 3/8" Flexible 90 Degree Connector, Die Cast.....	6.13	3.66
For Work In Restricted Working Space, Add	1.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.65	
26 05 33 13-1895 EA 1/2" Flexible 90 Degree Connector, Die Cast.....	7.48	4.03
For Work In Restricted Working Space, Add	1.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.92	
26 05 33 13-1896 EA 3/4" Flexible 90 Degree Connector, Die Cast.....	8.94	4.39
For Work In Restricted Working Space, Add	2.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.19	
26 05 33 13-1897 EA 1" Flexible 90 Degree Connector, Die Cast.....	13.44	5.12
For Work In Restricted Working Space, Add	2.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 05 33 13-1898 EA 1-1/4" Flexible 90 Degree Connector, Die Cast.....	18.48	5.49
For Work In Restricted Working Space, Add	3.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.29	
26 05 33 13-1899 EA 1-1/2" Flexible 90 Degree Connector, Die Cast.....	27.72	6.40
For Work In Restricted Working Space, Add	4.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 05 33 13-1900 EA 2" Flexible 90 Degree Connector, Die Cast.....	32.88	7.87
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-1901 Flexible Liquid Tight Non-Metallic Conduit And Connectors (26 05 33 13-1753)		
26 05 33 13-1902 Flexible Liquid Tight Non-Metallic Conduit (26 05 33 13-1901)		
26 05 33 13-1903 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit.....	2.97	1.00
For Work In Restricted Working Space, Add	0.75	
26 05 33 13-1904 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit.....	3.01	1.00
For Work In Restricted Working Space, Add	0.75	
26 05 33 13-1905 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit.....	4.04	1.34
For Work In Restricted Working Space, Add	1.01	
26 05 33 13-1906 LF 1" Flexible Liquid Tight Non-Metallic Conduit.....	4.75	1.34
For Work In Restricted Working Space, Add	1.01	
26 05 33 13-1907 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit.....	6.00	1.67
For Work In Restricted Working Space, Add	1.25	
26 05 33 13-1908 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit.....	7.55	2.00
For Work In Restricted Working Space, Add	1.51	
26 05 33 13-1909 LF 2" Flexible Liquid Tight Non-Metallic Conduit.....	9.79	2.68
For Work In Restricted Working Space, Add	2.01	
26 05 33 13-1910 Liquid Tight Non-Metallic Straight Connector (26 05 33 13-1901)		
26 05 33 13-1911 EA 3/8" Liquid Tight Non-Metallic Straight Connector.....	8.40	2.68
For Work In Restricted Working Space, Add	2.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.01	
26 05 33 13-1912 EA 1/2" Liquid Tight Non-Metallic Straight Connector.....	8.40	2.68
For Work In Restricted Working Space, Add	2.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.01	
26 05 33 13-1913 EA 3/4" Liquid Tight Non-Metallic Straight Connector.....	10.05	3.01
For Work In Restricted Working Space, Add	2.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.26	
26 05 33 13-1914 EA 1" Liquid Tight Non-Metallic Straight Connector.....	12.16	3.35
For Work In Restricted Working Space, Add	2.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.51	
26 05 33 13-1915 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector.....	16.00	3.68
For Work In Restricted Working Space, Add	2.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.76	
26 05 33 13-1916 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector.....	19.49	4.02
For Work In Restricted Working Space, Add	3.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.01	
26 05 33 13-1917 EA 2" Liquid Tight Non-Metallic Straight Connector.....	29.07	4.68
For Work In Restricted Working Space, Add	3.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.51	
26 05 33 13-1918 Liquid Tight Non-Metallic 90 Degree Angle Connector (26 05 33 13-1901)		
26 05 33 13-1919 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	11.97	3.68
For Work In Restricted Working Space, Add	2.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.76	
26 05 33 13-1920 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	11.97	3.68
For Work In Restricted Working Space, Add	2.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1921 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	14.29	4.02
For Work In Restricted Working Space, Add	3.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.01	
26 05 33 13-1922 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	19.41	4.68
For Work In Restricted Working Space, Add	3.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.51	
26 05 33 13-1923 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	20.21	5.02
For Work In Restricted Working Space, Add	3.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-1924 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	29.80	5.35
For Work In Restricted Working Space, Add	4.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.01	
26 05 33 13-1925 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	39.08	6.02
For Work In Restricted Working Space, Add	4.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-1926 Liquid Tight Non-Metallic 45 Degree Angle Connector (26 05 33 13-1901)		
26 05 33 13-1927 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	11.97	3.68
For Work In Restricted Working Space, Add	2.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.76	
26 05 33 13-1928 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	11.97	3.68
For Work In Restricted Working Space, Add	2.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.76	
26 05 33 13-1929 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	14.29	4.02
For Work In Restricted Working Space, Add	3.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.01	
26 05 33 13-1930 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	19.41	4.68
For Work In Restricted Working Space, Add	3.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.51	
26 05 33 13-1931 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	20.21	5.02
For Work In Restricted Working Space, Add	3.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-1932 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	29.80	5.35
For Work In Restricted Working Space, Add	4.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.01	
26 05 33 13-1933 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	39.08	6.02
For Work In Restricted Working Space, Add	4.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-1934 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-1753)		
Note: Carlon - FLEX-PLUS.		
26 05 33 13-1935 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-1934)		
26 05 33 13-1936 LF 1/2" Blue ENT Electrical Non-Metallic Tubing.....	3.07	1.10
For Work In Restricted Working Space, Add	0.83	
26 05 33 13-1937 LF 3/4" Blue ENT Electrical Non-Metallic Tubing.....	4.10	1.46
For Work In Restricted Working Space, Add	1.10	
26 05 33 13-1938 LF 1" Blue ENT Electrical Non-Metallic Tubing.....	4.38	1.46
For Work In Restricted Working Space, Add	1.10	
26 05 33 13-1939 Terminal Adapter (26 05 33 13-1934)		
26 05 33 13-1940 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	7.83	2.93
For Work In Restricted Working Space, Add	2.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.19	
26 05 33 13-1941 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	9.20	3.30
For Work In Restricted Working Space, Add	2.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.47	
26 05 33 13-1942 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	10.38	3.66
For Work In Restricted Working Space, Add	2.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 05 33 13-1943 Coupling (26 05 33 13-1934)		
26 05 33 13-1944 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	7.77	2.93
For Work In Restricted Working Space, Add	2.19	
26 05 33 13-1945 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	8.83	3.30
For Work In Restricted Working Space, Add	2.47	
26 05 33 13-1946 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	10.04	3.66
For Work In Restricted Working Space, Add	2.75	
26 05 33 13-1947 Conduit Installed Below Grade (26 05 33 13-0057)		
Note: By direct burial in trench or in concrete slabs or duct banks. Excludes trenching, backfilling and concrete.		
26 05 33 13-1948 Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial (26 05 33 13-1947)		
26 05 33 13-1949 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial (26 05 33 13-1948)		
Note: Includes field bend conduit up to 1".		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1950 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	2.75	
For Schedule 60, Add	0.18	
For Schedule 80, Add	0.33	
26 05 33 13-1951 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	3.01	
For Schedule 60, Add	0.20	
For Schedule 80, Add	0.37	
26 05 33 13-1952 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	3.34	
For Schedule 60, Add	0.25	
For Schedule 80, Add	0.43	
26 05 33 13-1953 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	3.66	
For Schedule 60, Add	0.29	
For Schedule 80, Add	0.50	
26 05 33 13-1954 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	3.98	
For Schedule 60, Add	0.33	
For Schedule 80, Add	0.56	
26 05 33 13-1955 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	4.38	
For Schedule 60, Add	0.39	
For Schedule 80, Add	0.65	
26 05 33 13-1956 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	5.07	
For Schedule 60, Add	0.52	
For Schedule 80, Add	0.84	
26 05 33 13-1957 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	5.53	
For Schedule 60, Add	0.60	
For Schedule 80, Add	0.95	
26 05 33 13-1958 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	6.16	
For Schedule 60, Add	0.72	
For Schedule 80, Add	1.13	
26 05 33 13-1959 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	6.56	
For Schedule 60, Add	0.78	
For Schedule 80, Add	1.22	
26 05 33 13-1960 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	7.77	
For Schedule 60, Add	1.04	
For Schedule 80, Add	1.59	
26 05 33 13-1961 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	9.00	
For Schedule 60, Add	1.31	
For Schedule 80, Add	1.97	

26 05 33 13-1962 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial
(26 05 33 13-1948)

See CSI section 26 05 33 13-2404 for conduit field bending.

26 05 33 13-1963 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	20.39	
For Schedule 60, Add	1.17	
For Schedule 80, Add	2.23	
26 05 33 13-1964 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	24.43	
For Schedule 60, Add	1.40	
For Schedule 80, Add	2.66	
26 05 33 13-1965 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	28.88	
For Schedule 60, Add	1.73	
For Schedule 80, Add	3.24	
26 05 33 13-1966 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	33.45	
For Schedule 60, Add	2.08	
For Schedule 80, Add	3.86	
26 05 33 13-1967 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	38.10	
For Schedule 60, Add	2.46	
For Schedule 80, Add	4.50	
26 05 33 13-1968 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	42.94	
For Schedule 60, Add	2.89	
For Schedule 80, Add	5.22	
26 05 33 13-1969 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	50.10	
For Schedule 60, Add	3.89	
For Schedule 80, Add	6.74	
26 05 33 13-1970 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	58.75	
For Schedule 60, Add	5.27	
For Schedule 80, Add	8.79	
26 05 33 13-1971 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	71.34	
For Schedule 60, Add	6.85	
For Schedule 80, Add	11.23	
26 05 33 13-1972 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	83.91	
For Schedule 60, Add	8.42	
For Schedule 80, Add	13.67	
26 05 33 13-1973 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	107.14	
For Schedule 60, Add	12.66	
For Schedule 80, Add	19.84	
26 05 33 13-1974 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	125.09	
For Schedule 60, Add	15.57	
For Schedule 80, Add	24.16	

26 05 33 13-1975 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct
(26 05 33 13-1948)

See CSI section 26 05 33 13-2404 for conduit field bending.



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1976	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	20.24	
		For Schedule 60, Add	1.14	
		For Schedule 80, Add	2.18	
26 05 33 13-1977	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	24.37	
		For Schedule 60, Add	1.38	
		For Schedule 80, Add	2.64	
26 05 33 13-1978	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	28.79	
		For Schedule 60, Add	1.70	
		For Schedule 80, Add	3.21	
26 05 33 13-1979	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	33.20	
		For Schedule 60, Add	2.02	
		For Schedule 80, Add	3.77	
26 05 33 13-1980	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	37.55	
		For Schedule 60, Add	2.32	
		For Schedule 80, Add	4.31	
26 05 33 13-1981	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	42.64	
		For Schedule 60, Add	2.81	
		For Schedule 80, Add	5.11	
26 05 33 13-1982	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	49.55	
		For Schedule 60, Add	3.75	
		For Schedule 80, Add	6.55	
26 05 33 13-1983	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	58.05	
		For Schedule 60, Add	5.09	
		For Schedule 80, Add	8.55	
26 05 33 13-1984	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	69.37	
		For Schedule 60, Add	6.35	
		For Schedule 80, Add	10.54	
26 05 33 13-1985	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	82.22	
		For Schedule 60, Add	8.00	
		For Schedule 80, Add	13.08	
26 05 33 13-1986	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	104.95	
		For Schedule 60, Add	12.11	
		For Schedule 80, Add	19.07	
26 05 33 13-1987	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	118.56	
		For Schedule 60, Add	13.94	
		For Schedule 80, Add	21.87	
26 05 33 13-1988		Polyvinyl Chloride (PVC) Conduit Adapters, Direct Burial (26 05 33 13-1948)		
26 05 33 13-1989	EA	1/2" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	11.34	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-1990	EA	3/4" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	13.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-1991	EA	1" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	14.77	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24	
26 05 33 13-1992	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	16.57	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.71	
26 05 33 13-1993	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	18.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.18	
26 05 33 13-1994	EA	2" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	20.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33 13-1995	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	23.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.36	
26 05 33 13-1996	EA	3" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	27.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.07	
26 05 33 13-1997	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	31.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 33 13-1998	EA	4" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	36.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-1999	EA	5" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	44.44	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.60	
26 05 33 13-2000	EA	6" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial	50.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.77	
26 05 33 13-2001		Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial (26 05 33 13-1948)		
26 05 33 13-2002	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	20.46	
26 05 33 13-2003	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	22.57	
26 05 33 13-2004	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	25.64	
26 05 33 13-2005	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	28.63	
26 05 33 13-2006	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	31.61	
26 05 33 13-2007	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	37.38	
26 05 33 13-2008	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	41.31	
26 05 33 13-2009	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	50.11	
26 05 33 13-2010	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	55.91	
26 05 33 13-2011		Polyvinyl Chloride (PVC) Conduit Terminal Adapters, Direct Burial (26 05 33 13-1948)		
26 05 33 13-2012	EA	1/2" Polyvinyl Chloride (PVC) Conduit Terminal Adapters, Direct Burial	11.28	
26 05 33 13-2013	EA	3/4" Polyvinyl Chloride (PVC) Conduit Terminal Adapters, Direct Burial	13.02	
26 05 33 13-2014	EA	1" Polyvinyl Chloride (PVC) Conduit Terminal Adapters, Direct Burial	14.68	
26 05 33 13-2015	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Terminal Adapters, Direct Burial	16.42	
26 05 33 13-2016	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	18.06	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2017	EA	2" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	19.91	
26 05 33 13-2018	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	23.35	
26 05 33 13-2019	EA	3" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	26.55	
26 05 33 13-2020	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	31.31	
26 05 33 13-2021	EA	4" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	35.34	
26 05 33 13-2022	EA	5" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	43.09	
26 05 33 13-2023	EA	6" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	48.56	
26 05 33 13-2024		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel		
		(RGS) Conduit, Direct Burial (26 05 33 13-1947)		
		Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).		
26 05 33 13-2025		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel		
		(RGS) Conduit, Direct Burial (26 05 33 13-2024)		
		Note: Includes field bending for conduit up to 1".		
26 05 33 13-2026	LF	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	9.53	1.75
		For >250 To 500, Deduct	-0.36	
		For >500 To 1,000, Deduct	-0.60	
		For >1,000, Deduct	-0.84	
26 05 33 13-2027	LF	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	10.73	2.18
		For >250 To 500, Deduct	-0.41	
		For >500 To 1,000, Deduct	-0.68	
		For >1,000, Deduct	-0.95	
26 05 33 13-2028	LF	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	13.25	2.43
		For >250 To 500, Deduct	-0.52	
		For >500 To 1,000, Deduct	-0.85	
		For >1,000, Deduct	-1.18	
26 05 33 13-2029	LF	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	16.08	3.26
		For >250 To 500, Deduct	-0.64	
		For >500 To 1,000, Deduct	-1.04	
		For >1,000, Deduct	-1.44	
26 05 33 13-2030	LF	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	18.93	3.68
		For >250 To 500, Deduct	-0.76	
		For >500 To 1,000, Deduct	-1.23	
		For >1,000, Deduct	-1.70	
26 05 33 13-2031	LF	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	24.06	4.02
		For >250 To 500, Deduct	-0.97	
		For >500 To 1,000, Deduct	-1.57	
		For >1,000, Deduct	-2.18	
26 05 33 13-2032	LF	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	35.08	6.02
		For >250 To 500, Deduct	-1.44	
		For >500 To 1,000, Deduct	-2.32	
		For >1,000, Deduct	-3.19	
26 05 33 13-2033	LF	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	45.14	7.53
		For >250 To 500, Deduct	-1.84	
		For >500 To 1,000, Deduct	-2.97	
		For >1,000, Deduct	-4.10	
26 05 33 13-2034	LF	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	55.66	7.95
		For >250 To 500, Deduct	-2.26	
		For >500 To 1,000, Deduct	-3.65	
		For >1,000, Deduct	-5.04	
26 05 33 13-2035	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	66.07	8.78
		For >250 To 500, Deduct	-2.68	
		For >500 To 1,000, Deduct	-4.33	
		For >1,000, Deduct	-5.98	
26 05 33 13-2036	LF	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	104.38	12.13
		For >250 To 500, Deduct	-4.42	
		For >500 To 1,000, Deduct	-7.03	
		For >1,000, Deduct	-9.64	
26 05 33 13-2037	LF	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	139.64	15.90
		For >250 To 500, Deduct	-5.98	
		For >500 To 1,000, Deduct	-9.47	
		For >1,000, Deduct	-12.96	
26 05 33 13-2038		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel		
		(RGS) Couplings, Direct Burial (26 05 33 13-2024)		
26 05 33 13-2039	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	10.23	2.51
26 05 33 13-2040	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	12.15	3.35
26 05 33 13-2041	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	15.45	4.18
26 05 33 13-2042	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	17.46	4.60
26 05 33 13-2043	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	20.70	5.43
26 05 33 13-2044	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	26.92	6.27
26 05 33 13-2045	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	50.63	7.53
26 05 33 13-2046	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	64.12	10.45
26 05 33 13-2047	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	79.68	12.13
26 05 33 13-2048	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	98.26	16.73
26 05 33 13-2049	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	257.16	23.00
26 05 33 13-2050	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	261.80	12.97



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2051	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial (26 05 33 13-2024) Note: 90, 45, or 30 degree.			
26 05 33 13-2052	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		39.16	10.45
26 05 33 13-2053	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		44.87	12.97
26 05 33 13-2054	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		53.51	15.90
26 05 33 13-2055	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		63.51	18.40
26 05 33 13-2056	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		74.64	20.91
26 05 33 13-2057	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		91.80	23.00
26 05 33 13-2058	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		143.98	28.86
26 05 33 13-2059	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		216.49	39.31
26 05 33 13-2060	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		269.56	44.33
26 05 33 13-2061	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		306.65	57.71
26 05 33 13-2062	EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		649.02	94.10
26 05 33 13-2063	EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial		1,023.43	141.37
26 05 33 13-2064	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial (26 05 33 13-2024)			
26 05 33 13-2065	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial		96.52	15.90
26 05 33 13-2066	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial		108.42	18.40
26 05 33 13-2067	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial		123.81	20.91
26 05 33 13-2068	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial		148.53	23.00
26 05 33 13-2069	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial		208.19	28.86
26 05 33 13-2070	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial (26 05 33 13-2024)			
26 05 33 13-2071	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		108.15	15.90
26 05 33 13-2072	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		127.64	18.40
26 05 33 13-2073	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		137.59	20.91
26 05 33 13-2074	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		178.58	23.00
26 05 33 13-2075	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		237.17	28.86
26 05 33 13-2076	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial		302.43	39.31
26 05 33 13-2077	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial (26 05 33 13-2024)			
26 05 33 13-2078	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		122.06	15.90
26 05 33 13-2079	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		137.65	18.40
26 05 33 13-2080	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		155.27	20.91
26 05 33 13-2081	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		188.55	23.00
26 05 33 13-2082	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		270.47	28.86
26 05 33 13-2083	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		341.52	39.31
26 05 33 13-2084	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		433.28	44.33
26 05 33 13-2085	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial		485.01	57.71
26 05 33 13-2086	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial (26 05 33 13-2024)			

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2087	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	146.08	15.90
26 05 33 13-2088	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	161.14	18.40
26 05 33 13-2089	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	181.95	20.91
26 05 33 13-2090	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	226.97	23.00
26 05 33 13-2091	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	330.06	28.86
26 05 33 13-2092	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	407.75	39.31
26 05 33 13-2093	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	473.72	44.33
26 05 33 13-2094	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	559.25	57.71
26 05 33 13-2095 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial (26 05 33 13-2024)				
26 05 33 13-2096	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	164.77	15.90
26 05 33 13-2097	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	183.02	18.40
26 05 33 13-2098	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	208.20	20.91
26 05 33 13-2099	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	260.41	23.00
26 05 33 13-2100	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	362.58	28.86
26 05 33 13-2101	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	460.73	39.31
26 05 33 13-2102	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	572.05	44.33
26 05 33 13-2103	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	627.41	57.71
26 05 33 13-2104	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	1,046.88	94.10
26 05 33 13-2105 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial (26 05 33 13-2024)				
26 05 33 13-2106	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	189.22	15.90
26 05 33 13-2107	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	209.44	18.40
26 05 33 13-2108	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	236.99	20.91
26 05 33 13-2109	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	297.50	23.00
26 05 33 13-2110	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	416.76	28.86
26 05 33 13-2111	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	528.23	39.31
26 05 33 13-2112	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	621.32	44.33
26 05 33 13-2113	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	715.39	57.71
26 05 33 13-2114	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,108.54	94.10
26 05 33 13-2115	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,510.65	141.37
26 05 33 13-2116 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial (26 05 33 13-2024)				
26 05 33 13-2117	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	223.25	15.90
26 05 33 13-2118	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	233.00	18.40
26 05 33 13-2119	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	275.51	20.91
26 05 33 13-2120	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	349.13	23.00
26 05 33 13-2121	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	489.82	28.86
26 05 33 13-2122	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	619.22	39.31
26 05 33 13-2123	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	758.29	44.33
26 05 33 13-2124	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	886.54	57.71



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2125	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,309.67	94.10
26 05 33 13-2126	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,602.97	141.37
26 05 33 13-2127		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial (26 05 33 13-2024)		
26 05 33 13-2128	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	231.45	15.90
26 05 33 13-2129	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	272.85	18.40
26 05 33 13-2130	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	308.83	20.91
26 05 33 13-2131	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	364.66	23.00
26 05 33 13-2132	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	508.07	28.86
26 05 33 13-2133	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	647.21	39.31
26 05 33 13-2134	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	832.89	44.33
26 05 33 13-2135	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	925.36	57.71
26 05 33 13-2136	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,363.70	94.10
26 05 33 13-2137	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,649.88	141.37
26 05 33 13-2138		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial (26 05 33 13-2024)		
26 05 33 13-2139	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	75.30	10.45
26 05 33 13-2140	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	81.31	12.97
26 05 33 13-2141	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	106.02	15.90
26 05 33 13-2142	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	156.30	18.40
26 05 33 13-2143	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	185.95	20.91
26 05 33 13-2144	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	238.07	23.00
26 05 33 13-2145	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	317.73	28.86
26 05 33 13-2146	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	416.19	28.86
26 05 33 13-2147	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	533.34	44.33
26 05 33 13-2148	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	686.39	57.71
26 05 33 13-2149	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	1,255.40	94.10
26 05 33 13-2150	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	1,553.74	141.37
26 05 33 13-2151		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial (26 05 33 13-2024)		
26 05 33 13-2152	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	77.13	10.45
26 05 33 13-2153	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	88.31	12.97
26 05 33 13-2154	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	109.75	15.90
26 05 33 13-2155	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	163.14	18.40
26 05 33 13-2156	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	195.45	20.91
26 05 33 13-2157	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	258.60	23.00
26 05 33 13-2158	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	361.65	28.86
26 05 33 13-2159	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	460.84	28.86
26 05 33 13-2160	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	614.07	44.33
26 05 33 13-2161	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	766.83	57.71
26 05 33 13-2162	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	1,402.85	94.10

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2163	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial		1,791.83	141.37
26 05 33 13-2164 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial (26 05 33 13-2024)					
26 05 33 13-2165	EA	1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		25.46	5.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.01	
26 05 33 13-2166	EA	3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		28.27	6.27
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.77	
26 05 33 13-2167	EA	1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		32.48	7.95
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.77	
26 05 33 13-2168	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		38.80	9.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.52	
26 05 33 13-2169	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		41.98	10.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.27	
26 05 33 13-2170	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		28.29	5.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.26	
26 05 33 13-2171	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		30.38	6.27
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.77	
26 05 33 13-2172	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		34.61	7.95
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.77	
26 05 33 13-2173	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		41.05	9.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.52	
26 05 33 13-2174	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		44.41	10.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.27	
26 05 33 13-2175	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		47.97	11.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.03	
26 05 33 13-2176	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		28.43	5.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.26	
26 05 33 13-2177	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		30.53	6.27
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.77	
26 05 33 13-2178	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		34.88	7.95
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.77	
26 05 33 13-2179	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		41.35	9.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.52	
26 05 33 13-2180	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		44.70	10.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.27	
26 05 33 13-2181	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		48.72	11.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.02	
26 05 33 13-2182	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		30.44	5.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.26	
26 05 33 13-2183	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		32.53	6.27
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.77	
26 05 33 13-2184	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		37.03	7.95
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.77	
26 05 33 13-2185	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		42.57	9.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.52	
26 05 33 13-2186	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		46.05	10.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.27	
26 05 33 13-2187	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		51.08	11.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.02	
26 05 33 13-2188	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		72.36	14.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.53	
26 05 33 13-2189	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		93.05	19.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		11.79	
26 05 33 13-2190	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial		30.58	5.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.26	



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 05 33 13-2191	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.80	6.27	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77		
26 05 33 13-2192	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.32	7.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77		
26 05 33 13-2193	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.79	9.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52		
26 05 33 13-2194	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.40	10.45	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27		
26 05 33 13-2195	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.44	11.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02		
26 05 33 13-2196	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	74.44	14.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53		
26 05 33 13-2197	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	97.54	19.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79		
26 05 33 13-2198	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	116.95	22.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30		
26 05 33 13-2199	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	135.41	28.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31		
26 05 33 13-2200	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	30.86	5.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26		
26 05 33 13-2201	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	33.10	6.27	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77		
26 05 33 13-2202	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.64	7.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77		
26 05 33 13-2203	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.36	9.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52		
26 05 33 13-2204	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.99	10.45	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27		
26 05 33 13-2205	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	54.73	11.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02		
26 05 33 13-2206	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	82.75	14.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53		
26 05 33 13-2207	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	104.26	19.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79		
26 05 33 13-2208	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	118.38	22.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30		
26 05 33 13-2209	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	139.24	28.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31		
26 05 33 13-2210	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	206.27	39.73	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.84		
26 05 33 13-2211	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	31.38	5.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26		
26 05 33 13-2212	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	33.62	6.27	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77		
26 05 33 13-2213	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.21	7.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77		
26 05 33 13-2214	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.42	9.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52		
26 05 33 13-2215	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.25	10.45	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27		
26 05 33 13-2216	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.01	11.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02		
26 05 33 13-2217	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	91.18	14.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53		
26 05 33 13-2218	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	113.19	19.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2219	EA		3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	126.43	22.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30	
26 05 33 13-2220	EA		4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	152.81	28.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31	
26 05 33 13-2221	EA		5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	226.56	39.73
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.84	
26 05 33 13-2222	EA		1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.21	5.43
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26	
26 05 33 13-2223	EA		3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	34.42	6.27
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-2224	EA		1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.47	7.95
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-2225	EA		1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.69	9.20
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-2226	EA		1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.82	10.45
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-2227	EA		2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	62.29	11.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02	
26 05 33 13-2228	EA		2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	101.54	14.22
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53	
26 05 33 13-2229	EA		3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	125.42	19.66
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79	
26 05 33 13-2230	EA		3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	146.58	22.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30	
26 05 33 13-2231	EA		4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	173.19	28.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31	
26 05 33 13-2232	EA		5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	240.47	39.73
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.84	
26 05 33 13-2233	EA		1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	33.07	5.43
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26	
26 05 33 13-2234	EA		3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.27	6.27
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-2235	EA		1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.71	7.95
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-2236	EA		1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.48	9.20
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-2237	EA		1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.94	10.45
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-2238	EA		2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	71.52	11.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.02	
26 05 33 13-2239	EA		2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	112.50	14.22
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53	
26 05 33 13-2240	EA		3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	141.07	19.66
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.79	
26 05 33 13-2241	EA		3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	167.74	22.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.30	
26 05 33 13-2242	EA		4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	208.85	28.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31	
26 05 33 13-2243	EA		5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	268.22	39.73
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.84	
26 05 33 13-2244	EA		1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	33.96	5.43
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.26	
26 05 33 13-2245	EA		3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.26	6.27
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-2246	EA		1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.88	7.95
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2247	EA		1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.72	9.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.52	
26 05 33 13-2248	EA		1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	65.33	10.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.27	
26 05 33 13-2249	EA		2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	78.94	11.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.02	
26 05 33 13-2250	EA		2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	127.13	14.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.53	
26 05 33 13-2251	EA		3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	164.55	19.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.79	
26 05 33 13-2252	EA		3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	180.72	22.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.30	
26 05 33 13-2253	EA		4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	219.78	28.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.31	
26 05 33 13-2254	EA		5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	272.19	39.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.84	
26 05 33 13-2255			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1947)		
			Note: Direct burial or encased application.		
26 05 33 13-2256			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-2255)		
26 05 33 13-2257	LF		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	4.35	1.02
			<i>For Work In Restricted Working Space, Add</i>	0.77	
26 05 33 13-2258	LF		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	4.77	1.10
			<i>For Work In Restricted Working Space, Add</i>	0.82	
26 05 33 13-2259	LF		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	5.09	1.18
			<i>For Work In Restricted Working Space, Add</i>	0.88	
26 05 33 13-2260	LF		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	5.40	1.25
			<i>For Work In Restricted Working Space, Add</i>	0.94	
26 05 33 13-2261	LF		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	5.79	1.33
			<i>For Work In Restricted Working Space, Add</i>	1.00	
26 05 33 13-2262	LF		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	6.06	1.41
			<i>For Work In Restricted Working Space, Add</i>	1.06	
26 05 33 13-2263	LF		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	6.75	1.49
			<i>For Work In Restricted Working Space, Add</i>	1.12	
26 05 33 13-2264	LF		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	7.55	1.57
			<i>For Work In Restricted Working Space, Add</i>	1.18	
26 05 33 13-2265	LF		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.19	1.65
			<i>For Work In Restricted Working Space, Add</i>	1.24	
26 05 33 13-2266	LF		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.84	1.72
			<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 33 13-2267	LF		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.17	1.80
			<i>For Work In Restricted Working Space, Add</i>	1.36	
26 05 33 13-2268	LF		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	11.78	1.88
			<i>For Work In Restricted Working Space, Add</i>	1.41	
26 05 33 13-2269			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-2255)		
26 05 33 13-2270	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	53.01	7.85
			<i>For Work In Restricted Working Space, Add</i>	5.89	
			<i>For 24" Radius, Add</i>	3.49	
			<i>For 36" Radius, Add</i>	5.30	
			<i>For 48" Radius, Add</i>	7.12	
26 05 33 13-2271	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	60.93	9.41
			<i>For Work In Restricted Working Space, Add</i>	7.07	
			<i>For 24" Radius, Add</i>	3.98	
			<i>For 36" Radius, Add</i>	6.09	
			<i>For 48" Radius, Add</i>	8.21	
26 05 33 13-2272	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	65.23	10.99
			<i>For Work In Restricted Working Space, Add</i>	8.24	
			<i>For 24" Radius, Add</i>	4.21	
			<i>For 36" Radius, Add</i>	6.52	
			<i>For 48" Radius, Add</i>	8.84	
26 05 33 13-2273	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	69.53	12.56
			<i>For Work In Restricted Working Space, Add</i>	9.42	
			<i>For 24" Radius, Add</i>	4.43	
			<i>For 36" Radius, Add</i>	6.95	
			<i>For 48" Radius, Add</i>	9.48	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2274	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	73.84	14.13	
		For Work In Restricted Working Space, Add	10.60		
		For 24" Radius, Add	4.65		
		For 36" Radius, Add	7.38		
		For 48" Radius, Add	10.11		
26 05 33 13-2275	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	83.06	15.69	
		For Work In Restricted Working Space, Add	11.77		
		For 24" Radius, Add	5.25		
		For 36" Radius, Add	8.31		
		For 48" Radius, Add	11.36		
26 05 33 13-2276	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	95.61	17.27	
		For Work In Restricted Working Space, Add	12.95		
		For 24" Radius, Add	6.09		
		For 36" Radius, Add	9.56		
		For 48" Radius, Add	13.03		
26 05 33 13-2277	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	110.02	18.84	
		For Work In Restricted Working Space, Add	14.13		
		For 24" Radius, Add	7.07		
		For 36" Radius, Add	11.00		
		For 48" Radius, Add	14.93		
26 05 33 13-2278	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	125.75	21.97	
		For Work In Restricted Working Space, Add	16.49		
		For 24" Radius, Add	8.06		
		For 36" Radius, Add	12.58		
		For 48" Radius, Add	17.09		
26 05 33 13-2279	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	141.46	28.25	
		For Work In Restricted Working Space, Add	18.84		
		For 24" Radius, Add	9.04		
		For 36" Radius, Add	14.15		
		For 48" Radius, Add	19.25		
26 05 33 13-2280	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	168.97	28.25	
		For Work In Restricted Working Space, Add	21.19		
		For 24" Radius, Add	10.91		
		For 36" Radius, Add	16.90		
		For 48" Radius, Add	22.89		
26 05 33 13-2281	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	201.40	31.40	
		For Work In Restricted Working Space, Add	23.55		
		For 24" Radius, Add	13.14		
		For 36" Radius, Add	20.14		
		For 48" Radius, Add	27.14		
26 05 33 13-2282 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-2255)					
26 05 33 13-2283	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	24.81	4.40	
		For Work In Restricted Working Space, Add	3.30		
26 05 33 13-2284	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	27.96	5.03	
		For Work In Restricted Working Space, Add	3.77		
26 05 33 13-2285	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	29.69	5.65	
		For Work In Restricted Working Space, Add	4.24		
26 05 33 13-2286	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	31.38	6.28	
		For Work In Restricted Working Space, Add	4.71		
26 05 33 13-2287	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	33.28	6.91	
		For Work In Restricted Working Space, Add	5.18		
26 05 33 13-2288	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	37.90	7.53	
		For Work In Restricted Working Space, Add	5.65		
26 05 33 13-2289	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	44.13	8.47	
		For Work In Restricted Working Space, Add	6.36		
26 05 33 13-2290	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	51.08	9.41	
		For Work In Restricted Working Space, Add	7.07		
26 05 33 13-2291	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	58.44	10.99	
		For Work In Restricted Working Space, Add	8.24		
26 05 33 13-2292	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	65.82	12.56	
		For Work In Restricted Working Space, Add	9.42		
26 05 33 13-2293	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	78.35	14.13	
		For Work In Restricted Working Space, Add	10.60		
26 05 33 13-2294	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	92.99	15.69	
		For Work In Restricted Working Space, Add	11.77		
26 05 33 13-2295 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-2255)					
26 05 33 13-2296	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	18.79	4.40	
		For Work In Restricted Working Space, Add	3.30		
26 05 33 13-2297	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	21.23	5.03	
		For Work In Restricted Working Space, Add	3.77		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2298	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	22.89 4.24	5.65
26 05 33 13-2299	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	24.54 4.71	6.28
26 05 33 13-2300	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	26.21 5.18	6.91
26 05 33 13-2301	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	27.83 5.65	7.53
26 05 33 13-2302	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	31.98 6.36	8.47
26 05 33 13-2303	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	36.50 7.07	9.41
26 05 33 13-2304	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	42.04 8.24	10.99
26 05 33 13-2305	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	47.59 9.42	12.56
26 05 33 13-2306	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	55.59 10.60	14.13
26 05 33 13-2307	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	64.54 11.77	15.69
26 05 33 13-2308 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-2255)					
26 05 33 13-2309	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	15.98 1.88	2.51
26 05 33 13-2310	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	17.84 2.12	2.82
26 05 33 13-2311	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	18.74 2.36	3.13
26 05 33 13-2312	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	19.59 2.59	3.46
26 05 33 13-2313	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	20.62 2.82	3.77
26 05 33 13-2314	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	24.34 3.30	4.40
26 05 33 13-2315	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	29.35 4.00	5.34
26 05 33 13-2316	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	34.90 4.71	6.28
26 05 33 13-2317	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	41.23 5.89	7.85
26 05 33 13-2318	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	47.56 7.07	9.41
26 05 33 13-2319	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	57.47 8.24	10.99
26 05 33 13-2320	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	68.91 9.42	12.56
26 05 33 13-2321 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-2255)					
26 05 33 13-2322	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	49.92 11.77	15.69
26 05 33 13-2323	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	58.94 14.13	18.84
26 05 33 13-2324	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	66.93 16.49	21.97
26 05 33 13-2325	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	74.85 18.84	25.12
26 05 33 13-2326	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	79.06 20.02	26.68
26 05 33 13-2327	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	85.32 21.19	28.25
26 05 33 13-2328	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	92.19 22.37	29.83
26 05 33 13-2329	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	99.64 23.55	31.40
26 05 33 13-2330	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	106.21 24.73	32.96
26 05 33 13-2331	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	112.77 25.90	34.53
26 05 33 13-2332	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	123.30 27.08	36.11
26 05 33 13-2333	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	135.49 28.26	37.68

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 33 13-2334	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-2255)				
26 05 33 13-2335	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	54.26		15.69	
	For Work In Restricted Working Space, Add	11.77			
26 05 33 13-2336	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	63.81		18.84	
	For Work In Restricted Working Space, Add	14.13			
26 05 33 13-2337	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	71.82		21.97	
	For Work In Restricted Working Space, Add	16.49			
26 05 33 13-2338	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	79.79		25.12	
	For Work In Restricted Working Space, Add	18.84			
26 05 33 13-2339	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	84.04		26.68	
	For Work In Restricted Working Space, Add	20.02			
26 05 33 13-2340	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	91.01		28.25	
	For Work In Restricted Working Space, Add	21.19			
26 05 33 13-2341	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	99.02		29.83	
	For Work In Restricted Working Space, Add	22.37			
26 05 33 13-2342	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	107.83		31.40	
	For Work In Restricted Working Space, Add	23.55			
26 05 33 13-2343	EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	115.43		32.96	
	For Work In Restricted Working Space, Add	24.73			
26 05 33 13-2344	EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	123.02		34.53	
	For Work In Restricted Working Space, Add	25.90			
26 05 33 13-2345	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	136.15		36.11	
	For Work In Restricted Working Space, Add	27.08			
26 05 33 13-2346	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	151.55		37.68	
	For Work In Restricted Working Space, Add	28.26			
26 05 33 13-2347	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-2255)				
26 05 33 13-2348	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	46.71		4.40	
	For Work In Restricted Working Space, Add	3.30			
26 05 33 13-2349	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	52.25		5.03	
	For Work In Restricted Working Space, Add	3.77			
26 05 33 13-2350	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	55.04		5.65	
	For Work In Restricted Working Space, Add	4.24			
26 05 33 13-2351	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	57.87		6.28	
	For Work In Restricted Working Space, Add	4.71			
26 05 33 13-2352	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	60.10		6.91	
	For Work In Restricted Working Space, Add	5.18			
26 05 33 13-2353	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	65.75		7.53	
	For Work In Restricted Working Space, Add	5.65			
26 05 33 13-2354	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	77.49		8.47	
	For Work In Restricted Working Space, Add	6.36			
26 05 33 13-2355	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	91.07		9.41	
	For Work In Restricted Working Space, Add	7.07			
26 05 33 13-2356	EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	115.81		12.56	
	For Work In Restricted Working Space, Add	9.42			
26 05 33 13-2357	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	140.87		14.13	
	For Work In Restricted Working Space, Add	10.60			
26 05 33 13-2358	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	170.35		15.69	
	For Work In Restricted Working Space, Add	11.77			
26 05 33 13-2359	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-2255)				
26 05 33 13-2360	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	61.81		15.69	
	For Work In Restricted Working Space, Add	11.77			
26 05 33 13-2361	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	72.17		18.84	
	For Work In Restricted Working Space, Add	14.13			
26 05 33 13-2362	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	85.93		21.97	
	For Work In Restricted Working Space, Add	16.49			
26 05 33 13-2363	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	104.56		25.12	
	For Work In Restricted Working Space, Add	18.84			
26 05 33 13-2364	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	123.99		26.68	
	For Work In Restricted Working Space, Add	20.02			
26 05 33 13-2365	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	155.51		28.25	
	For Work In Restricted Working Space, Add	21.19			
26 05 33 13-2366	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	208.12		29.83	
	For Work In Restricted Working Space, Add	22.37			
26 05 33 13-2367	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	244.09		31.40	
	For Work In Restricted Working Space, Add	23.55			
26 05 33 13-2368	EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	286.08		32.96	
	For Work In Restricted Working Space, Add	24.73			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2369 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	328.06	34.53
For Work In Restricted Working Space, Add	25.90	
26 05 33 13-2370 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	377.39	36.11
For Work In Restricted Working Space, Add	27.08	
26 05 33 13-2371 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	581.64	37.68
For Work In Restricted Working Space, Add	28.26	
26 05 33 13-2372 Spacers (26 05 33 13-1947)		
Note: For concrete encasement applications. See CSI section 03 31 13 00-0039 for concrete., 26 05 33 13-1947 for conduit.		
26 05 33 13-2373 EA 1" Base Spacers, Average 4" Wide, Direct Burial	8.22	
26 05 33 13-2374 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial	8.84	
26 05 33 13-2375 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial	9.79	
26 05 33 13-2376 EA 1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial	10.56	
26 05 33 13-2377 EA 1-1/2" Base Spacer, Average 4" Wide, Direct Burial	9.87	
26 05 33 13-2378 EA 1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	10.62	
26 05 33 13-2379 EA 2" Base Spacer, Average 4" Wide, Direct Burial	12.28	
26 05 33 13-2380 EA 2" Intermediate Spacers, Average 4" Wide, Direct Burial	11.41	
26 05 33 13-2381 EA 2-1/2" Base Spacer, Average 4" Wide, Direct Burial	13.58	
26 05 33 13-2382 EA 2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	13.13	
26 05 33 13-2383 EA 3" Base Spacer, Average 4" Wide, Direct Burial	15.54	
26 05 33 13-2384 EA 3" Intermediate Spacers, Average 4" Wide, Direct Burial	14.83	
26 05 33 13-2385 EA 3-1/2" Base Spacer, Average 4" Wide, Direct Burial	16.84	
26 05 33 13-2386 EA 3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	16.10	
26 05 33 13-2387 EA 4" Base Spacer, Average 4" Wide, Direct Burial	17.35	
26 05 33 13-2388 EA 4" Intermediate Spacers, Average 4" Wide, Direct Burial	16.55	
26 05 33 13-2389 EA 5" Base Spacer, Average 4" Wide, Direct Burial	19.19	
26 05 33 13-2390 EA 5" Intermediate Spacers, Average 4" Wide, Direct Burial	18.24	
26 05 33 13-2391 EA 6" Base Spacer, Average 4" Wide, Direct Burial	21.58	
26 05 33 13-2392 EA 6" Intermediate Spacers, Average 4" Wide, Direct Burial	20.79	
26 05 33 13-2393 Conduit Field Bending (26 05 33 13-0057)		
26 05 33 13-2394 Metallic Conduit Field Bending (26 05 33 13-2393)		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.		
26 05 33 13-2395 EA 1-1/4" Metallic Conduit Field Bending	14.09	
26 05 33 13-2396 EA 1-1/2" Metallic Conduit Field Bending	18.78	
26 05 33 13-2397 EA 2" Metallic Conduit Field Bending	23.47	
26 05 33 13-2398 EA 2-1/2" Metallic Conduit Field Bending	32.86	
26 05 33 13-2399 EA 3" Metallic Conduit Field Bending	42.25	
26 05 33 13-2400 EA 3-1/2" Metallic Conduit Field Bending	51.64	
26 05 33 13-2401 EA 4" Metallic Conduit Field Bending	61.03	
26 05 33 13-2402 EA 5" Metallic Conduit Field Bending	75.11	
26 05 33 13-2403 EA 6" Metallic Conduit Field Bending	89.20	
26 05 33 13-2404 Plastic Conduit Field Bending (26 05 33 13-2393)		
Note: For PVC conduits.		
26 05 33 13-2405 EA 1" Plastic Conduit Field Bending	21.60	
26 05 33 13-2406 EA 1-1/4" Plastic Conduit Field Bending	23.47	
26 05 33 13-2407 EA 1-1/2" Plastic Conduit Field Bending	28.16	
26 05 33 13-2408 EA 2" Plastic Conduit Field Bending	37.56	
26 05 33 13-2409 EA 2-1/2" Plastic Conduit Field Bending	46.94	
26 05 33 13-2410 EA 3" Plastic Conduit Field Bending	56.33	
26 05 33 13-2411 EA 3-1/2" Plastic Conduit Field Bending	65.72	
26 05 33 13-2412 EA 4" Plastic Conduit Field Bending	75.11	
26 05 33 13-2413 EA 5" Plastic Conduit Field Bending	84.50	
26 05 33 13-2414 EA 6" Plastic Conduit Field Bending	93.89	
26 05 33 13-2415 Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0057)		
Note: For use when connecting conduit to an existing in-place system.		
26 05 33 13-2416 EA 1/2", Cut And Thread Existing In-Place Threaded Conduit	27.49	
For Work In Restricted Working Space, Add	8.25	
26 05 33 13-2417 EA 3/4", Cut And Thread Existing In-Place Threaded Conduit	30.24	
For Work In Restricted Working Space, Add	9.07	
26 05 33 13-2418 EA 1", Cut And Thread Existing In-Place Threaded Conduit	32.99	
For Work In Restricted Working Space, Add	9.90	
26 05 33 13-2419 EA 1-1/4", Cut And Thread Existing In-Place Threaded Conduit	35.74	
For Work In Restricted Working Space, Add	10.72	
26 05 33 13-2420 EA 1-1/2", Cut And Thread Existing In-Place Threaded Conduit	37.57	
For Work In Restricted Working Space, Add	11.27	
26 05 33 13-2421 EA 2", Cut And Thread Existing In-Place Threaded Conduit	39.40	
For Work In Restricted Working Space, Add	11.82	
26 05 33 13-2422 EA 2-1/2", Cut And Thread Existing In-Place Threaded Conduit	41.24	
For Work In Restricted Working Space, Add	12.37	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2423	EA		3", Cut And Thread Existing In-Place Threaded Conduit	43.07	
			<i>For Work In Restricted Working Space, Add</i>	12.92	
26 05 33 13-2424	EA		3-1/2", Cut And Thread Existing In-Place Threaded Conduit	43.98	
			<i>For Work In Restricted Working Space, Add</i>	13.19	
26 05 33 13-2425	EA		4", Cut And Thread Existing In-Place Threaded Conduit	44.90	
			<i>For Work In Restricted Working Space, Add</i>	13.47	
26 05 33 13-2426	EA		5", Cut And Thread Existing In-Place Threaded Conduit	46.73	
			<i>For Work In Restricted Working Space, Add</i>	14.02	
26 05 33 13-2427	EA		6", Cut And Thread Existing In-Place Threaded Conduit	48.56	
			<i>For Work In Restricted Working Space, Add</i>	14.57	
26 05 33 13-2428			Conduit Bodies (26 05 33 13-0057)		
26 05 33 13-2429			Threaded, Cast Aluminum Conduit Body (26 05 33 13-2428)		
26 05 33 13-2430			Type LB, Threaded, Two Hub Cast Aluminum Conduit Body (26 05 33 13-2429)		
26 05 33 13-2431	EA		1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	45.85	16.06
			<i>For Mogul LB, Add</i>	2.27	
			<i>For Work In Restricted Working Space, Add</i>	12.05	
			<i>For Installation Above 14', Add</i>	6.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.05	
26 05 33 13-2432	EA		3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	53.75	18.40
			<i>For Mogul LB, Add</i>	3.50	
			<i>For Work In Restricted Working Space, Add</i>	13.80	
			<i>For Installation Above 14', Add</i>	6.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.80	
26 05 33 13-2433	EA		1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	64.54	21.41
			<i>For Mogul LB, Add</i>	5.58	
			<i>For Work In Restricted Working Space, Add</i>	16.06	
			<i>For Installation Above 14', Add</i>	8.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.06	
26 05 33 13-2434	EA		1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	77.51	24.43
			<i>For Mogul LB, Add</i>	9.28	
			<i>For Work In Restricted Working Space, Add</i>	18.32	
			<i>For Installation Above 14', Add</i>	9.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.32	
26 05 33 13-2435	EA		1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	88.14	26.76
			<i>For Mogul LB, Add</i>	12.57	
			<i>For Work In Restricted Working Space, Add</i>	20.08	
			<i>For Installation Above 14', Add</i>	10.04	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.08	
26 05 33 13-2436	EA		2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	114.57	32.12
			<i>For Mogul LB, Add</i>	21.69	
			<i>For Work In Restricted Working Space, Add</i>	24.09	
			<i>For Installation Above 14', Add</i>	12.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.09	
26 05 33 13-2437	EA		2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	188.77	45.17
			<i>For Mogul LB, Add</i>	51.24	
			<i>For Work In Restricted Working Space, Add</i>	33.88	
			<i>For Installation Above 14', Add</i>	16.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.88	
26 05 33 13-2438	EA		3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	248.49	60.23
			<i>For Mogul LB, Add</i>	65.92	
			<i>For Work In Restricted Working Space, Add</i>	45.17	
			<i>For Installation Above 14', Add</i>	22.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.17	
26 05 33 13-2439	EA		3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	328.27	75.29
			<i>For Mogul LB, Add</i>	95.63	
			<i>For Work In Restricted Working Space, Add</i>	56.46	
			<i>For Installation Above 14', Add</i>	28.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.46	
26 05 33 13-2440	EA		4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	423.82	91.67
			<i>For Mogul LB, Add</i>	134.51	
			<i>For Work In Restricted Working Space, Add</i>	68.76	
			<i>For Installation Above 14', Add</i>	34.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.76	
26 05 33 13-2441			Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2429)		
26 05 33 13-2442	EA		1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	46.54	16.06
			<i>For Mogul LB, Add</i>	2.79	
			<i>For Work In Restricted Working Space, Add</i>	12.05	
			<i>For Installation Above 14', Add</i>	6.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.05	
26 05 33 13-2443	EA		3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	54.42	18.40
			<i>For Mogul LB, Add</i>	4.01	
			<i>For Work In Restricted Working Space, Add</i>	13.80	
			<i>For Installation Above 14', Add</i>	6.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.80	
26 05 33 13-2444	EA		1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	65.91	21.41
			<i>For Mogul LB, Add</i>	6.61	
			<i>For Work In Restricted Working Space, Add</i>	16.06	
			<i>For Installation Above 14', Add</i>	8.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.06	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2445	EA	1-1/4"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.17 10.53 18.32 9.16 18.32	24.43
26 05 33 13-2446	EA	1-1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.96 14.68 20.08 10.04 20.08	26.76
26 05 33 13-2447	EA	2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.63 26.23 24.09 12.05 24.09	32.12
26 05 33 13-2448	EA	2-1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.71 48.95 33.88 16.94 33.88	45.17
26 05 33 13-2449	EA	3"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	238.21 58.21 45.17 22.58 45.17	60.23
26 05 33 13-2450	EA	3-1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	337.03 102.20 56.46 28.23 56.46	75.29
26 05 33 13-2451	EA	4"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	441.72 147.94 68.76 34.38 68.76	91.67
26 05 33 13-2452	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2429)				
26 05 33 13-2453	EA	1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.56 13.80 6.90 13.80	18.40
26 05 33 13-2454	EA	3/4"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.26 16.06 8.03 16.06	21.41
26 05 33 13-2455	EA	1"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.32 17.57 8.78 17.57	23.42
26 05 33 13-2456	EA	1-1/4"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.78 20.08 10.04 20.08	26.76
26 05 33 13-2457	EA	1-1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.72 22.08 11.04 22.08	29.45
26 05 33 13-2458	EA	2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.53 25.85 12.92 25.85	34.46
26 05 33 13-2459	EA	2-1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.41 37.64 18.82 37.64	50.19
26 05 33 13-2460	EA	3"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	268.15 48.93 24.47 48.93	65.24
26 05 33 13-2461	EA	3-1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	418.92 60.23 30.11 60.23	80.30
26 05 33 13-2462	EA	4"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	481.95 72.52 36.26 72.52	96.70
26 05 33 13-2463	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2429)				
26 05 33 13-2464	EA	1/2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.68 12.05 6.02 12.05	16.06

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2465	EA	3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.94 13.80 6.90 13.80	18.40
26 05 33 13-2466	EA	1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.52 15.81 7.91 15.81	21.08
26 05 33 13-2467	EA	1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.50 18.32 9.16 18.32	24.43
26 05 33 13-2468	EA	1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.68 20.08 10.04 20.08	26.76
26 05 33 13-2469	EA	2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.62 24.09 12.05 24.09	32.12
26 05 33 13-2470	EA	2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.14 33.88 16.94 33.88	45.17
26 05 33 13-2471	EA	3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	236.57 45.17 22.58 45.17	60.23
26 05 33 13-2472	EA	3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	331.77 56.46 28.23 56.46	75.29
26 05 33 13-2473	EA	4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	425.46 68.76 34.38 68.76	91.67
26 05 33 13-2474	EA	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2429).....	61.97	21.08
26 05 33 13-2475	EA	1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.81 7.91 15.81	
26 05 33 13-2476	EA	3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.10 17.57 8.78 17.57	23.42
26 05 33 13-2477	EA	1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.63 19.32 9.66 19.32	25.76
26 05 33 13-2478	EA	1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.59 22.08 11.04 22.08	29.45
26 05 33 13-2479	EA	1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.06 24.09 12.05 24.09	32.12
26 05 33 13-2480	EA	2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.30 29.61 14.81 29.61	39.48
26 05 33 13-2481	EA	2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	272.74 43.41 21.71 43.41	57.88
26 05 33 13-2482	EA	3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	338.19 56.46 28.23 56.46	75.29
26 05 33 13-2483	EA	3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	476.10 70.27 35.13 70.27	93.02
26 05 33 13-2484	EA	4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	574.47 83.81 41.91 83.81	111.75

26 05 33 13-2485 Threaded, Malleable Iron Conduit Body (26 05 33 13-2428)

26 05 33 13-2486 Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2485)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2487 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	47.79	16.06
For Work In Restricted Working Space, Add	12.05	
For Installation Above 14', Add	6.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.05	
26 05 33 13-2488 EA 3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	55.37	18.40
For Work In Restricted Working Space, Add	13.80	
For Installation Above 14', Add	6.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.80	
26 05 33 13-2489 EA 1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	67.48	21.41
For Work In Restricted Working Space, Add	16.06	
For Installation Above 14', Add	8.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.06	
26 05 33 13-2490 EA 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	86.09	24.43
For Work In Restricted Working Space, Add	18.32	
For Installation Above 14', Add	9.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.32	
26 05 33 13-2491 EA 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	97.62	26.76
For Work In Restricted Working Space, Add	20.08	
For Installation Above 14', Add	10.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	
26 05 33 13-2492 EA 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	131.70	32.12
For Work In Restricted Working Space, Add	24.09	
For Installation Above 14', Add	12.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.09	
26 05 33 13-2493 EA 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	218.11	45.17
For Work In Restricted Working Space, Add	33.88	
For Installation Above 14', Add	16.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.88	
26 05 33 13-2494 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	307.48	60.23
For Work In Restricted Working Space, Add	45.17	
For Installation Above 14', Add	22.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.17	
26 05 33 13-2495 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	420.50	75.29
For Work In Restricted Working Space, Add	56.46	
For Installation Above 14', Add	28.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.46	
26 05 33 13-2496 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	503.88	91.67
For Work In Restricted Working Space, Add	68.76	
For Installation Above 14', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.76	
26 05 33 13-2497 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2485)		
26 05 33 13-2498 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	49.55	16.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.05	
26 05 33 13-2499 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	55.89	18.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.80	
26 05 33 13-2500 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	70.18	21.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.06	
26 05 33 13-2501 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	87.90	24.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.32	
26 05 33 13-2502 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	99.84	26.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	
26 05 33 13-2503 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	127.15	32.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.09	
26 05 33 13-2504 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	192.89	45.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.88	
26 05 33 13-2505 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	262.13	60.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.17	
26 05 33 13-2506 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	447.21	75.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.46	
26 05 33 13-2507 EA 4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	523.57	91.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.76	
26 05 33 13-2508 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2485)		
26 05 33 13-2509 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	58.62	18.40
For Work In Restricted Working Space, Add	13.80	
For Installation Above 14', Add	6.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.80	
26 05 33 13-2510 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	69.12	21.41
For Work In Restricted Working Space, Add	16.31	
For Installation Above 14', Add	8.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.31	
26 05 33 13-2511 EA 1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	80.86	23.42
For Work In Restricted Working Space, Add	17.57	
For Installation Above 14', Add	8.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.57	
26 05 33 13-2512 EA 1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	100.63	26.76
For Work In Restricted Working Space, Add	19.82	
For Installation Above 14', Add	9.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.82	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2513 EA 1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	115.13	29.45
For Work In Restricted Working Space, Add	22.08	
For Installation Above 14', Add	11.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.08	
26 05 33 13-2514 EA 2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	151.21	34.46
For Work In Restricted Working Space, Add	25.85	
For Installation Above 14', Add	12.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.85	
26 05 33 13-2515 EA 2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	193.71	50.19
For Work In Restricted Working Space, Add	37.64	
For Installation Above 14', Add	18.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.64	
26 05 33 13-2516 EA 3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	276.51	65.24
For Work In Restricted Working Space, Add	48.93	
For Installation Above 14', Add	24.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.93	
26 05 33 13-2517 EA 3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	472.09	80.30
For Work In Restricted Working Space, Add	60.23	
For Installation Above 14', Add	30.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.23	
26 05 33 13-2518 EA 4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	547.61	96.70
For Work In Restricted Working Space, Add	72.77	
For Installation Above 14', Add	36.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.77	
26 05 33 13-2519 Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2485)		
26 05 33 13-2520 EA 1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	47.92	16.06
For Work In Restricted Working Space, Add	12.05	
For Installation Above 14', Add	6.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.05	
26 05 33 13-2521 EA 3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	57.66	18.40
For Work In Restricted Working Space, Add	13.80	
For Installation Above 14', Add	6.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.80	
26 05 33 13-2522 EA 1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	67.29	21.08
For Work In Restricted Working Space, Add	15.81	
For Installation Above 14', Add	7.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.81	
26 05 33 13-2523 EA 1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	89.42	24.43
For Work In Restricted Working Space, Add	18.32	
For Installation Above 14', Add	9.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.32	
26 05 33 13-2524 EA 1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	103.87	26.76
For Work In Restricted Working Space, Add	20.08	
For Installation Above 14', Add	10.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	
26 05 33 13-2525 EA 2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	133.48	32.12
For Work In Restricted Working Space, Add	24.09	
For Installation Above 14', Add	12.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.09	
26 05 33 13-2526 EA 2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	303.13	84.74
For Work In Restricted Working Space, Add	63.52	
For Installation Above 14', Add	31.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.52	
26 05 33 13-2527 EA 3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	281.17	60.23
For Work In Restricted Working Space, Add	45.17	
For Installation Above 14', Add	22.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.17	
26 05 33 13-2528 EA 3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	447.21	75.29
For Work In Restricted Working Space, Add	56.46	
For Installation Above 14', Add	28.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.46	
26 05 33 13-2529 EA 4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	523.56	91.67
For Work In Restricted Working Space, Add	68.75	
For Installation Above 14', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.75	
26 05 33 13-2530 Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2485)		
26 05 33 13-2531 EA 1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	66.68	21.08
For Work In Restricted Working Space, Add	15.81	
For Installation Above 14', Add	7.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.81	
26 05 33 13-2532 EA 3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	73.06	23.42
For Work In Restricted Working Space, Add	17.57	
For Installation Above 14', Add	8.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.57	
26 05 33 13-2533 EA 1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	84.31	25.76
For Work In Restricted Working Space, Add	19.32	
For Installation Above 14', Add	9.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.32	



Electrical		26
Common Work Results For Electrical		26 05
Raceway And Boxes For Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2534	EA	1-1/4"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.88 22.08 11.04 22.08	29.45
26 05 33 13-2535	EA	1-1/2"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	114.58 24.09 12.05 24.09	32.12
26 05 33 13-2536	EA	2"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	158.37 29.61 14.81 29.61	39.48
26 05 33 13-2537	EA	2-1/2"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.25 43.41 21.71 43.41	57.88
26 05 33 13-2538	EA	3"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	365.26 56.46 28.23 56.46	75.29
26 05 33 13-2539	EA	3-1/2"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	538.71 69.76 34.88 69.76	93.02
26 05 33 13-2540	EA	4"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	604.45 83.81 41.91 83.81	111.75
26 05 33 13-2541	Set Screw, Cast Aluminum Conduit Body (26 05 33 13-2428)				
26 05 33 13-2542	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2541)				
26 05 33 13-2543	EA	1/2"	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.53 4.77 2.39 4.77	6.35
26 05 33 13-2544	EA	3/4"	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.88 6.27 3.14 6.27	8.37
26 05 33 13-2545	EA	1"	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.79 7.78 3.89 7.78	10.37
26 05 33 13-2546	EA	1-1/4"	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.08 9.53 4.77 9.53	12.71
26 05 33 13-2547	EA	1-1/2"	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.27 11.04 5.52 11.04	14.72
26 05 33 13-2548	EA	2"	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.63 12.55 6.27 12.55	16.73
26 05 33 13-2549	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2541)				
26 05 33 13-2550	EA	1/2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.71 4.77 2.39 4.77	6.35
26 05 33 13-2551	EA	3/4"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.58 6.27 3.14 6.27	8.37
26 05 33 13-2552	EA	1"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.36 7.78 3.89 7.78	10.37
26 05 33 13-2553	EA	1-1/4"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.87 9.53 4.77 9.53	12.71
26 05 33 13-2554	EA	1-1/2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.22 11.04 5.52 11.04	14.72
26 05 33 13-2555	EA	2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.28 12.55 6.27 12.55	16.73

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 33 13-2556	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2541)				
26 05 33 13-2557	EA 1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover 29.26		8.37		
	For Work In Restricted Working Space, Add	6.27			
	For Installation Above 14', Add	3.14			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27			
26 05 33 13-2558	EA 3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover 37.96		10.37		
	For Work In Restricted Working Space, Add	7.78			
	For Installation Above 14', Add	3.89			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78			
26 05 33 13-2559	EA 1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover 45.84		12.71		
	For Work In Restricted Working Space, Add	9.53			
	For Installation Above 14', Add	4.77			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.53			
26 05 33 13-2560	EA 1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover 62.75		14.72		
	For Work In Restricted Working Space, Add	11.54			
	For Installation Above 14', Add	5.77			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54			
26 05 33 13-2561	EA 1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover 79.96		16.73		
	For Work In Restricted Working Space, Add	13.55			
	For Installation Above 14', Add	6.78			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55			
26 05 33 13-2562	EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover 106.53		18.73		
	For Work In Restricted Working Space, Add	15.56			
	For Installation Above 14', Add	7.78			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56			
26 05 33 13-2563	Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2541)				
26 05 33 13-2564	EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 23.31		6.35		
	For Work In Restricted Working Space, Add	4.77			
	For Installation Above 14', Add	2.39			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77			
26 05 33 13-2565	EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 31.13		8.37		
	For Work In Restricted Working Space, Add	6.27			
	For Installation Above 14', Add	3.14			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27			
26 05 33 13-2566	EA 1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 39.68		10.37		
	For Work In Restricted Working Space, Add	7.78			
	For Installation Above 14', Add	3.89			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78			
26 05 33 13-2567	EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 51.13		12.71		
	For Work In Restricted Working Space, Add	9.53			
	For Installation Above 14', Add	4.77			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.53			
26 05 33 13-2568	EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 38.91		14.72		
	For Work In Restricted Working Space, Add	11.04			
	For Installation Above 14', Add	5.52			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.04			
26 05 33 13-2569	EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 92.03		16.73		
	For Work In Restricted Working Space, Add	12.55			
	For Installation Above 14', Add	6.27			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55			
26 05 33 13-2570	Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) ^(26 05 33 13-2428)				
26 05 33 13-2571	EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) 101.28		18.32		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.75			
26 05 33 13-2572	EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) 357.30		33.88		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.42			
26 05 33 13-2573	EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400) 689.45		68.76		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.57			
26 05 33 13-2574	Replacement Covers And Gaskets For Conduit Body ^(26 05 33 13-2428)				
26 05 33 13-2575	Replacement Stamped Aluminum Conduit Body Cover ^(26 05 33 13-2574)				
26 05 33 13-2576	EA 1/2" Replacement Stamped Aluminum Conduit Body Cover 8.40		3.26		
26 05 33 13-2577	EA 3/4" Replacement Stamped Aluminum Conduit Body Cover 10.22		3.81		
26 05 33 13-2578	EA 1" Replacement Stamped Aluminum Conduit Body Cover 13.09		4.89		
26 05 33 13-2579	EA 1-1/4" Replacement Stamped Aluminum Conduit Body Cover 15.95		5.98		
26 05 33 13-2580	EA 1-1/2" Replacement Stamped Aluminum Conduit Body Cover 19.53		7.07		
26 05 33 13-2581	EA 2" Replacement Stamped Aluminum Conduit Body Cover 23.11		8.16		
26 05 33 13-2582	EA 2-1/2" Replacement Stamped Aluminum Conduit Body Cover 30.24		9.24		
26 05 33 13-2583	EA 3" Replacement Stamped Aluminum Conduit Body Cover 39.42		13.05		
26 05 33 13-2584	EA 3-1/2" Replacement Stamped Aluminum Conduit Body Cover 42.83		14.68		
26 05 33 13-2585	EA 4" Replacement Stamped Aluminum Conduit Body Cover 53.95		18.48		
26 05 33 13-2586	Replacement Cast Steel Conduit Body Cover ^(26 05 33 13-2574)				



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2587 EA 1/2" Replacement Cast Steel Conduit Body Cover.....	9.67	3.26
26 05 33 13-2588 EA 3/4" Replacement Cast Steel Conduit Body Cover.....	11.33	3.81
26 05 33 13-2589 EA 1" Replacement Cast Steel Conduit Body Cover.....	15.82	4.89
26 05 33 13-2590 EA 1-1/4" Replacement Cast Steel Conduit Body Cover.....	19.65	5.98
26 05 33 13-2591 EA 1-1/2" Replacement Cast Steel Conduit Body Cover.....	23.84	7.07
26 05 33 13-2592 EA 2" Replacement Cast Steel Conduit Body Cover.....	28.04	8.16
26 05 33 13-2593 EA 2-1/2" Replacement Cast Steel Conduit Body Cover.....	32.20	9.24
26 05 33 13-2594 EA 3" Replacement Cast Steel Conduit Body Cover.....	44.04	13.05
26 05 33 13-2595 EA 3-1/2" Replacement Cast Steel Conduit Body Cover.....	50.11	14.68
26 05 33 13-2596 EA 4" Replacement Cast Steel Conduit Body Cover.....	63.16	18.48
26 05 33 13-2597 Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2574)		
26 05 33 13-2598 EA 1/2" Replacement Velbuna Composition Conduit Body Gasket.....	7.83	3.26
26 05 33 13-2599 EA 3/4" Replacement Velbuna Composition Conduit Body Gasket.....	8.95	3.81
26 05 33 13-2600 EA 1" Replacement Velbuna Composition Conduit Body Gasket.....	11.67	4.89
26 05 33 13-2601 EA 1-1/4" Replacement Velbuna Composition Conduit Body Gasket.....	15.09	5.98
26 05 33 13-2602 EA 1-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	17.26	7.07
26 05 33 13-2603 EA 2" Replacement Velbuna Composition Conduit Body Gasket.....	20.49	8.16
26 05 33 13-2604 EA 2-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	26.65	9.24
26 05 33 13-2605 EA 3" Replacement Velbuna Composition Conduit Body Gasket.....	34.93	13.05
26 05 33 13-2606 EA 3-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	38.58	14.68
26 05 33 13-2607 EA 4" Replacement Velbuna Composition Conduit Body Gasket.....	46.11	18.48
26 05 33 13-2608 Replacement Neoprene Conduit Body Gasket (26 05 33 13-2574)		
26 05 33 13-2609 EA 1/2" Replacement Neoprene Conduit Body Gasket.....	8.71	3.26
26 05 33 13-2610 EA 3/4" Replacement Neoprene Conduit Body Gasket.....	9.79	3.81
26 05 33 13-2611 EA 1" Replacement Neoprene Conduit Body Gasket.....	12.78	4.89
26 05 33 13-2612 EA 1-1/4" Replacement Neoprene Conduit Body Gasket.....	15.65	5.98
26 05 33 13-2613 EA 1-1/2" Replacement Neoprene Conduit Body Gasket.....	17.82	7.07
26 05 33 13-2614 EA 2" Replacement Neoprene Conduit Body Gasket.....	20.55	8.16
26 05 33 13-2615 EA 2-1/2" Replacement Neoprene Conduit Body Gasket.....	26.79	9.24
26 05 33 13-2616 EA 3" Replacement Neoprene Conduit Body Gasket.....	35.07	13.05
26 05 33 13-2617 EA 3-1/2" Replacement Neoprene Conduit Body Gasket.....	39.53	14.68
26 05 33 13-2618 EA 4" Replacement Neoprene Conduit Body Gasket.....	47.06	18.48
26 05 33 16 Boxes For Electrical Systems (26 05 33)		
See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.		
26 05 33 16-0001 Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)		
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0128 for steel box/switch assemblies.		
26 05 33 16-0002 4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0003 EA 1-1/2" Depth, 4" Square Steel Box.....	28.92	13.73
For Stud Bracket, Add	0.36	
26 05 33 16-0004 EA 2-1/8" Depth, 4" Square Steel Box.....	29.59	13.73
For Stud Bracket, Add	0.65	
26 05 33 16-0005 EA 3-1/2" Depth, 4" Square Steel Box.....	31.89	13.73
For Stud Bracket, Add	0.71	
26 05 33 16-0006 EA 1-1/2" Depth, 4" Square Steel Extension Ring.....	21.58	9.15
26 05 33 16-0007 EA 2-1/8" Depth, 4" Square Steel Extension Ring.....	19.25	9.15
26 05 33 16-0008 EA 1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	9.85	4.58
26 05 33 16-0009 EA 5/8" Depth, 1 Gang, 4" Square Steel Mud Ring.....	9.96	4.58
26 05 33 16-0010 EA 3/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	10.04	4.58
26 05 33 16-0011 EA 1" Depth, 1 Gang, 4" Square Steel Mud Ring.....	10.29	4.58
26 05 33 16-0012 EA 1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	10.36	4.58
26 05 33 16-0013 EA 1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	11.15	4.58
26 05 33 16-0014 EA 1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	10.15	4.58
26 05 33 16-0015 EA 5/8" Depth, 2 Gang, 4" Square Steel Mud Ring.....	10.23	4.58
26 05 33 16-0016 EA 3/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	10.33	4.58
26 05 33 16-0017 EA 1" Depth, 2 Gang, 4" Square Steel Mud Ring.....	11.14	4.58
26 05 33 16-0018 EA 1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	11.31	4.58
26 05 33 16-0019 EA 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	12.34	4.58
26 05 33 16-0020 EA 3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	10.55	4.58
26 05 33 16-0021 EA 1" Depth, Fixture Cover, 4" Square Mud Rings.....	11.21	4.58
26 05 33 16-0022 EA One Toggle Switch, 4" Square Steel Exposed Work Cover.....	10.14	4.58
26 05 33 16-0023 EA Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	10.20	4.58
26 05 33 16-0024 EA One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	10.13	4.58
26 05 33 16-0025 EA Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	10.30	4.58
26 05 33 16-0026 EA One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	10.45	4.58
26 05 33 16-0027 EA One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	12.27	4.58
26 05 33 16-0028 EA One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	10.42	4.58
26 05 33 16-0029 EA Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	12.27	4.58
26 05 33 16-0030 EA One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	10.42	4.58
26 05 33 16-0031 EA One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	10.85	4.58
26 05 33 16-0032 EA One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	12.27	4.58
26 05 33 16-0033 EA One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	12.27	4.58
26 05 33 16-0034 EA Flat, 4" Square Steel Exposed Work Cover.....	9.62	4.58

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 05 33 16-0035	4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)				
26 05 33 16-0036	EA 1-1/2" Depth, 4-11/16" Square Steel Box.....	31.40		13.73	
26 05 33 16-0037	EA 2-1/8" Depth, 4-11/16" Square Steel Box.....	29.89		13.73	
	For Stud Bracket, Add	0.34			
26 05 33 16-0038	EA 3-1/4" Depth, 4-11/16" Square Steel Box.....	37.49		13.73	
26 05 33 16-0039	EA 1-1/2" Depth, 4-11/16" Square Extension Ring.....	22.21		9.15	
26 05 33 16-0040	EA 2-1/8" Depth, 4-11/16" Square Extension Ring.....	22.58		9.15	
26 05 33 16-0041	EA 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	11.37		4.58	
26 05 33 16-0042	EA 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	11.38		4.58	
26 05 33 16-0043	EA 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	12.03		4.58	
26 05 33 16-0044	EA 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	11.77		4.58	
26 05 33 16-0045	EA 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	11.71		4.58	
26 05 33 16-0046	EA 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	14.40		4.58	
26 05 33 16-0047	EA 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	11.88		4.58	
26 05 33 16-0048	EA 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	12.02		4.58	
26 05 33 16-0049	EA 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	12.03		4.58	
26 05 33 16-0050	EA 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	12.98		4.58	
26 05 33 16-0051	EA 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	13.18		4.58	
26 05 33 16-0052	EA 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	15.48		4.58	
26 05 33 16-0053	EA 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	11.76		4.58	
26 05 33 16-0054	EA 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	11.82		4.58	
26 05 33 16-0055	EA One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	13.60		4.58	
26 05 33 16-0056	EA Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	14.10		4.58	
26 05 33 16-0057	EA One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	13.46		4.58	
26 05 33 16-0058	EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover.....	12.91		4.58	
26 05 33 16-0059	EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	14.73		4.58	
26 05 33 16-0060	EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	14.10		4.58	
26 05 33 16-0061	EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	14.10		4.58	
26 05 33 16-0062	EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	14.10		4.58	
26 05 33 16-0063	EA Flat, 4-11/16" Square Steel Exposed Work Cover.....	10.03		4.58	
26 05 33 16-0064	Steel Square Box Brackets (26 05 33 16-0001)				
26 05 33 16-0065	EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....	14.43		6.87	
26 05 33 16-0066	EA Single Box Bracket, One 4" Or 4-11/16" Square Box.....	10.21		4.59	
26 05 33 16-0067	EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes.....	16.04		6.87	
26 05 33 16-0068	EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes.....	16.87		6.87	
26 05 33 16-0069	4" Octagon Steel Boxes And Covers (26 05 33 16-0001)				
26 05 33 16-0070	EA 1-1/2" Depth, 4" Steel Octagon Box.....	24.09		11.43	
	For Stud Bracket, Add	0.88			
26 05 33 16-0071	EA 2-1/8" Depth, 4" Steel Octagon Box.....	24.67		11.43	
26 05 33 16-0072	EA Flat, 4" Octagon Steel Exposed Work Cover.....	9.58		4.58	
26 05 33 16-0073	4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)				
	Note: Placed in concrete slabs or walls.				
26 05 33 16-0074	EA 2" Depth, 4" Steel Octagonal Concrete Ring.....	39.24			
26 05 33 16-0075	EA 2-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	41.51			
26 05 33 16-0076	EA 3" Depth, 4" Steel Octagonal Concrete Ring.....	43.45			
26 05 33 16-0077	EA 3-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	45.36			
26 05 33 16-0078	EA 4" Depth, 4" Steel Octagonal Concrete Ring.....	48.80			
26 05 33 16-0079	EA 5" Depth, 4" Steel Octagonal Concrete Ring.....	52.35			
26 05 33 16-0080	EA 6" Depth, 4" Steel Octagonal Concrete Ring.....	55.25			
26 05 33 16-0081	EA Flat, 4" Steel Octagonal Concrete Cover.....	10.39		4.58	
26 05 33 16-0082	4-1/2" Steel Gang Boxes (26 05 33 16-0001)				
26 05 33 16-0083	EA 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	32.38		11.43	
26 05 33 16-0084	EA 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	35.41		12.35	
26 05 33 16-0085	EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	41.78		13.73	
26 05 33 16-0086	EA 5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	52.54		15.10	
26 05 33 16-0087	EA 6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	73.74		16.47	
26 05 33 16-0088	EA 2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	41.42		11.43	
26 05 33 16-0089	EA 3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	45.04		12.35	
26 05 33 16-0090	EA 4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	58.05		13.73	
26 05 33 16-0091	EA 5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	72.77		15.10	
26 05 33 16-0092	EA 6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	113.74		16.47	
26 05 33 16-0093	EA 2 Device, Gang Box Mud Ring.....	13.85		4.58	
26 05 33 16-0094	EA 3 Device, Gang Box Mud Ring.....	14.00		4.58	
26 05 33 16-0095	EA 4 Device, Gang Box Mud Ring.....	15.75		4.58	
26 05 33 16-0096	EA 5 Device, Gang Box Mud Ring.....	18.74		4.58	
26 05 33 16-0097	EA 6 Device, Gang Box Mud Ring.....	25.31		4.58	
26 05 33 16-0098	EA 2 Device, Gang Box Flat Cover.....	12.36		4.58	
26 05 33 16-0099	EA 3 Device, Gang Box Flat Cover.....	13.99		4.58	
26 05 33 16-0100	EA 4 Device, Gang Box Flat Cover.....	16.15		4.58	
26 05 33 16-0101	EA 5 Device, Gang Box Flat Cover.....	18.91		4.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0102 EA 6 Device, Gang Box Flat Cover	25.78	4.58
26 05 33 16-0103 Steel Switch Boxes (26 05 33 16-0001)		
26 05 33 16-0104 EA 2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	25.21	11.43
26 05 33 16-0105 EA 2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box	25.47	11.43
26 05 33 16-0106 EA 3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	26.77	11.43
26 05 33 16-0107 EA 2-1/2" Depth, 2 Device, Stud Bracket, Steel Box	29.71	11.43
26 05 33 16-0108 EA 2-1/2" Depth, 3 Device, Stud Bracket, Steel Box	29.96	11.43
26 05 33 16-0109 EA 2-1/2" Depth, 4 Device, Stud Bracket, Steel Box	33.93	11.43
26 05 33 16-0110 4" x 2" Steel Handy Boxes, Extension Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0111 EA 1-1/2" Deep, 4" x 2" Steel Handy Box	24.02	11.43
For Stud Bracket, Add	1.41	
26 05 33 16-0112 EA 1-7/8" Deep, 4" x 2" Steel Handy Box	24.29	11.43
For Stud Bracket, Add	0.61	
26 05 33 16-0113 EA 2-1/8" Deep, 4" x 2" Steel Handy Box	24.89	11.43
For Stud Bracket, Add	0.83	
26 05 33 16-0114 EA 1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring	15.37	6.86
26 05 33 16-0115 EA 1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring	15.10	6.86
26 05 33 16-0116 EA GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover	5.17	2.28
26 05 33 16-0117 EA 1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	5.22	2.28
26 05 33 16-0118 EA Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	4.97	2.28
26 05 33 16-0119 EA Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover	4.99	2.28
26 05 33 16-0120 EA 1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	5.50	2.28
26 05 33 16-0121 EA Flat, 2" x 4" Steel Handy Box Exposed Work Cover	4.99	2.28
26 05 33 16-0122 3"-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)		
26 05 33 16-0123 EA 1 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	35.20	16.01
26 05 33 16-0124 EA 2 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	38.66	16.92
26 05 33 16-0125 EA 3 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	43.47	18.30
26 05 33 16-0126 EA 4 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	49.00	20.13
26 05 33 16-0127 Cast Boxes (26 05 33 16) Note: For flush or surface mount.		
26 05 33 16-0128 Cast Iron Alloy Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0262 for box covers.		
26 05 33 16-0129 Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0130 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box	74.94	27.45
Note: One hub.		
26 05 33 16-0131 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box	81.47	32.02
Note: One hub.		
26 05 33 16-0132 EA 1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box	96.29	38.89
Note: One hub.		
26 05 33 16-0133 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	94.36	36.59
Note: Two hub.		
26 05 33 16-0134 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	119.62	43.46
Note: Two hub.		
26 05 33 16-0135 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box	94.01	36.59
Note: Two hub.		
26 05 33 16-0136 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box	112.89	43.46
Note: Two hubs.		
26 05 33 16-0137 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	96.18	36.59
Note: Two hubs.		
26 05 33 16-0138 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	112.92	43.46
Note: Two hubs.		
26 05 33 16-0139 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box	94.01	36.59
Note: Two hubs.		
26 05 33 16-0140 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box	110.25	43.46
Note: Two hubs.		
26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box	112.67	45.75
Note: Three hubs.		
26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box	133.56	54.90
Note: Three hubs.		
26 05 33 16-0143 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box	116.82	45.75
Note: Three hubs.		
26 05 33 16-0144 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box	149.38	54.90
Note: Three hubs.		
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box	119.53	45.75
Note: Three hubs.		
26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box	142.88	54.90
Note: Three hubs.		
26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box	112.31	45.75
Note: Three hubs.		
26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box	144.71	54.90
Note: Three hubs.		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0149	EA	1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	142.13	54.90
26 05 33 16-0150	EA	3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	171.50	66.33
26 05 33 16-0151		Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0152	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	78.00	27.45
26 05 33 16-0153	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	89.95	32.02
26 05 33 16-0154	EA	1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	106.07	38.89
26 05 33 16-0155	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	99.94	36.59
26 05 33 16-0156	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	115.77	43.46
26 05 33 16-0157	EA	1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	139.25	52.61
26 05 33 16-0158	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	123.39	43.46
26 05 33 16-0159	EA	3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	158.41	54.90
26 05 33 16-0160		Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0161	EA	1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box Note: One hub.	89.13	29.74
26 05 33 16-0162	EA	3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box Note: One hub.	99.18	34.31
26 05 33 16-0163	EA	1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box Note: One hub.	115.63	41.17
26 05 33 16-0164	EA	1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	108.89	38.89
26 05 33 16-0165	EA	3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	124.19	45.75
26 05 33 16-0166		Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0167	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	98.30	29.74
26 05 33 16-0168	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box Note: One hub.	107.81	34.31
26 05 33 16-0169	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box Note: Two hubs.	122.70	38.89
26 05 33 16-0170	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box Note: Two hubs.	138.78	45.75
26 05 33 16-0171		Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0262 for box covers.		
26 05 33 16-0172		Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173	EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box Note: One hub.	65.79	22.88
26 05 33 16-0174	EA	3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box Note: One hub.	75.74	27.45
26 05 33 16-0175	EA	1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box Note: One hub.	85.38	34.31
26 05 33 16-0176	EA	1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	62.23	22.88
26 05 33 16-0177	EA	3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	78.25	27.45
26 05 33 16-0178	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	84.44	32.02
26 05 33 16-0179	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	101.57	38.89
26 05 33 16-0180	EA	1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	127.21	48.04
26 05 33 16-0181	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	90.63	32.02
26 05 33 16-0182	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	98.55	38.89
26 05 33 16-0183	EA	1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	87.11	32.02
26 05 33 16-0184	EA	3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	100.66	38.89
26 05 33 16-0185	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	84.83	32.02



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0186	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	100.66	38.89
26 05 33 16-0187	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	79.58	32.02
26 05 33 16-0188	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	106.24	38.89
26 05 33 16-0189	EA	1/2" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	101.50	41.17
26 05 33 16-0190	EA	3/4" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	123.42	50.32
26 05 33 16-0191	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	106.95	41.17
26 05 33 16-0192	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	142.28	50.32
26 05 33 16-0193	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	106.49	41.17
26 05 33 16-0194	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	130.59	50.32
26 05 33 16-0195	EA	3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	132.21	50.32
26 05 33 16-0196	EA	1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box..... Note: Four hubs.	129.88	50.32
26 05 33 16-0197	EA	3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box..... Note: Four hubs.	158.65	61.77
26 05 33 16-0198		Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0199	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	72.11	22.88
26 05 33 16-0200	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	86.40	27.45
26 05 33 16-0201	EA	1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	100.03	34.31
26 05 33 16-0202	EA	3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box Note: One hub.	92.16	27.45
26 05 33 16-0203	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	92.60	32.02
26 05 33 16-0204	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	111.59	38.89
26 05 33 16-0205	EA	1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	126.27	48.04
26 05 33 16-0206	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	112.93	38.89
26 05 33 16-0207	EA	3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box Note: Three hubs.	139.01	50.32
26 05 33 16-0208		Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0209	EA	1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	85.52	25.16
26 05 33 16-0210	EA	3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	98.23	29.74
26 05 33 16-0211	EA	1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	106.98	36.59
26 05 33 16-0212	EA	1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	107.81	34.31
26 05 33 16-0213	EA	3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	111.93	41.17
26 05 33 16-0214	EA	1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	138.09	50.32
26 05 33 16-0215		Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0216	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box..... Note: One hub.	85.45	25.16
26 05 33 16-0217	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box..... Note: One hub.	99.09	29.74
26 05 33 16-0218	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	109.78	34.31
26 05 33 16-0219	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	125.14	41.17
26 05 33 16-0220	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	109.78	34.31
26 05 33 16-0221	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	125.14	41.17
26 05 33 16-0222		Shallow, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0223	EA	1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box..... Note: Two hubs.	115.41	36.59

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0224	EA	3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box..... Note: Two hubs.	130.27	43.46
26 05 33 16-0225		Deep, Three Gang Cast Aluminum Boxes (26 05 33 16-0174) Note: >2" deep boxes.		
26 05 33 16-0226	EA	3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	128.48	32.02
26 05 33 16-0227	EA	1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	144.23	38.89
26 05 33 16-0228		Cast Aluminum Explosion Proof Outlet Bodies (26 05 33 16-0127) Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229	EA	1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	134.05	36.59
26 05 33 16-0230	EA	3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	164.84	41.17
26 05 33 16-0231	EA	1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	153.30	45.75
26 05 33 16-0232	EA	1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body	148.74	41.17
26 05 33 16-0233	EA	3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA	179.97	45.75
26 05 33 16-0234		Non Metallic (PVC) Boxes (26 05 33 16) See CSI section 26 27 26 00-0262 for box covers.		
26 05 33 16-0235		Shallow, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0236	EA	1/2" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	44.88	19.22
26 05 33 16-0237	EA	3/4" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	51.49	22.42
26 05 33 16-0238	EA	1" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	59.40	27.23
26 05 33 16-0239	EA	1/2" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	57.89	25.62
26 05 33 16-0240	EA	3/4" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	68.16	30.42
26 05 33 16-0241	EA	1" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	82.64	36.82
26 05 33 16-0242	EA	1/2" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	58.05	25.62
26 05 33 16-0243	EA	3/4" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	67.70	30.42
26 05 33 16-0244	EA	1" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	81.09	36.82
26 05 33 16-0245	EA	1/2" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	73.18	32.02
26 05 33 16-0246	EA	3/4" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	84.18	38.43
26 05 33 16-0247	EA	1" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	99.66	46.43
26 05 33 16-0248		Deep, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0249	EA	No Hub, Type FD, Deep, Single Gang Non Metallic (PVC) Box Note: No hubs.	45.39	19.22
26 05 33 16-0250	EA	1/2" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	44.50	19.22
26 05 33 16-0251	EA	3/4" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	52.68	22.42
26 05 33 16-0252	EA	1" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	59.89	27.23
26 05 33 16-0253	EA	1/2" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	58.87	25.62
26 05 33 16-0254	EA	3/4" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	66.86	30.42
26 05 33 16-0255	EA	1" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	80.12	36.82
26 05 33 16-0256		Shallow, Two Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0257	EA	1/2" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	48.34	20.81
26 05 33 16-0258	EA	3/4" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	55.46	24.02
26 05 33 16-0259	EA	1" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	62.70	28.82
26 05 33 16-0260	EA	1/2" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	60.00	27.23
26 05 33 16-0261	EA	3/4" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	73.51	32.02
26 05 33 16-0262	EA	1" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	87.20	38.43
26 05 33 16-0263	EA	1/2" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	61.17	27.23



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0264 EA 3/4" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	76.75	32.02
26 05 33 16-0265 EA 1" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	84.61	38.43
26 05 33 16-0266 EA 1/2" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	74.93	33.63
26 05 33 16-0267 EA 3/4" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	96.83	40.03
26 05 33 16-0268 EA 1" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	102.78	48.04
26 05 33 16-0269 Poke Thru Units (26 05 33 16)		
26 05 33 16-0270 Surface Poke Thru Units (26 05 33 16-0269) Note: Excludes concrete drilling. See CSI section 27 11 19 00-0123 for jacks.		
26 05 33 16-0271 EA Single 20 Amp Duplex Receptacle RC3 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	418.05	34.31
26 05 33 16-0272 EA Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Wiremold RC3KTCAL.	266.97	
26 05 33 16-0273 EA Replacement 20 Amp Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC37REC.	36.60	9.15
26 05 33 16-0274 EA Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3APTCBK.	44.73	4.58
26 05 33 16-0275 EA Four 20 Amp Receptacles RC4 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	472.99	36.59
26 05 33 16-0276 EA Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	249.85	
26 05 33 16-0277 EA Replacement Two 20 Amp Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	62.89	13.73
26 05 33 16-0278 EA Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4APTCBK.	44.73	4.58
26 05 33 16-0279 EA Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold ABPLUG4.	130.66	9.15
26 05 33 16-0280 EA Four Jack RC9AMD Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	374.04	32.02
26 05 33 16-0281 EA Abandonment Plate For RC9 Series Communications Poke Thru Unit Note: Wiremold RC9APTCBK.	30.98	4.58
26 05 33 16-0282 EA Eight Jack AMD8 Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	372.30	32.02
26 05 33 16-0283 EA Communication Conduit Adapter For Poke Thru Units Note: Includes two conduit connections for communication systems. Wiremold COM75.	43.22	4.58
26 05 33 16-0284 Recessed Poke Thru Units (26 05 33 16-0269) Note: Excludes concrete drilling.		
26 05 33 16-0285 Evolution 6AT Poke Thru Units (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0286 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	631.67	36.59
26 05 33 16-0287 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP) Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	631.75	36.59
26 05 33 16-0288 EA Recessed Assembly With Surface Style Cover (Wiremold 6ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	602.21	36.59
26 05 33 16-0289 EA Recessed Assembly With Flush Style Cover (Wiremold 6AT) Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	602.21	36.59
26 05 33 16-0290 EA Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	631.67	36.59
26 05 33 16-0291 EA Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	631.67	36.59

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0292 EA Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF).....	577.28	36.59
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0293 EA Recessed Assembly With Disposable Plate (Wiremold 6STC).....	362.98	34.31
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.		
26 05 33 16-0294 EA Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV)	389.04	34.31
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.		
26 05 33 16-0295 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP)	391.62	34.31
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.		
26 05 33 16-0296 EA 6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS).....	111.80	18.30
Note: Nonmetallic sleeve attaches to structural decking and maintains 6"-6 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.		
26 05 33 16-0297 EA Surface Style Cover Assembly (Wiremold 6CTC).....	254.07	9.15
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.		
26 05 33 16-0298 EA Flush Style Cover Assembly (Wiremold 6CT).....	254.07	9.15
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.		
26 05 33 16-0299 EA Furniture Feed Cover Assembly (Wiremold 6CFFTC)	211.34	9.15
Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.		
26 05 33 16-0300 EA Tile Shim (Wiremold 6TS).....	30.67	2.28
Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.		
26 05 33 16-0301 EA Device Mounting Plate (Wiremold 6AAP)	15.35	4.58
Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0302 EA Device Mounting Plate (Wiremold 6ACT8A)	17.66	4.58
Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0303 EA Device Mounting Plate (Wiremold 6B)	15.28	4.58
Note: Device plate used to blank off center compartment, when no devices are used.		
26 05 33 16-0304 EA Device Mounting Plate (Wiremold 6DEC).....	15.32	4.58
Note: Device plate that will accept Decorator style devices such as 20A receptacles, GFCIs, 106 adapters or AV devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0305 EA Device Mounting Plate (Wiremold 6DP).....	15.22	4.58
Note: Device plate that will accept standard 20A duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0306 EA Device Mounting Plate (Wiremold 6MAAP)	17.91	4.58
Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0307 EA Device Mounting Plate (Wiremold 6MAAP2A)	17.72	4.58
Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0308 EA Mosaic Mounting Plate (Wiremold 6MOS)	18.14	4.58
Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.		
26 05 33 16-0309 EA Device Mounting Plate (Wiremold 6S1)	15.00	4.58
Note: Receptacle opening 1 3/8". For 6" poke-thru units only.		
26 05 33 16-0310 EA Device Mounting Plate (Wiremold 6S2)	15.01	4.58
Note: Receptacle opening 1 9/16". For 6" poke-thru units only.		
26 05 33 16-0311 EA Device Mounting Plate (Wiremold 6SER)	14.81	4.58
Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC).....	14.81	4.58
Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0313 EA 20AMP Duplex Receptacles (Wiremold 68REC)	35.31	6.86
Note: Two (2) proprietary 20AMP duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.		
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B)	13.59	4.58
Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.		
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP)	13.93	4.58
Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.		
26 05 33 16-0316 EA 20AMP Duplex Receptacles (Wiremold 68REC-25)	109.81	8.24
Note: Two (2) proprietary 20AMP duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A) Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.	17.51	4.58
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA) Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.	18.23	4.58
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH) Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.	18.74	4.58
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA) Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.	28.97	9.15
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA) Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.	33.29	11.43
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA) Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.	36.60	11.43
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA) Note: One-gang 1 1/4" trade size conduit housing assembly.	27.85	9.15
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA) Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.	18.11	4.58
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH) Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.	18.11	4.58
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA) Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.	19.06	4.58
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA) Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.	19.70	4.58
26 05 33 16-0328 Evolution 8AT Poke Thru Units (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP) Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	827.63	36.59
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP) Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	787.88	36.59
26 05 33 16-0331 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC) Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	780.40	36.59
26 05 33 16-0332 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT) Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	773.30	36.59
26 05 33 16-0333 EA Recessed Assembly With Disposable Plate (Wiremold 8STC) Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	468.17	34.31
26 05 33 16-0334 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP) Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	524.18	34.31
26 05 33 16-0335 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS) Note: Nonmetallic sleeve attaches to structural decking and maintains 8"-8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	133.65	18.30
26 05 33 16-0336 EA Surface Style Cover Assembly (Wiremold 8CTC) Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.	274.69	9.15
26 05 33 16-0337 EA Flush Style Cover Assembly (Wiremold 8CT) Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.	274.69	9.15
26 05 33 16-0338 EA Tile Shim (Wiremold 8TS) Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.	47.67	2.28
26 05 33 16-0339 EA Device Mounting Plate (Wiremold 8B) Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.	15.84	4.58
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8DP) Note: Singlegang device plate that accepts standard 20A duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	15.93	4.58
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DEC) Note: Singlegang device plate that will accept Decorator style devices such as 20A receptacles, GGCIs, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	16.03	4.58

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8ACT6A)	18.52	4.58
Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0343 EA Mosaic Mounting Plate (Wiremold 8MOS)	22.34	4.58
Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.		
26 05 33 16-0344 EA Crestron Double Gang Plate (Wiremold 8CREST)	22.31	4.58
Note: Device plate accepts Crestron double-gang decorator style devices.		
26 05 33 16-0345 EA Device Mounting Plate (Wiremold 8S1)	15.38	4.58
Note: Receptacle opening 1 3/8". For 8" poke-thru units only.		
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S2)	15.57	4.58
Note: Receptacle opening 1 9/16". For 8" poke-thru units only.		
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8TRAC)	15.38	4.58
Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8SER)	15.38	4.58
Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8MAAP)	22.00	4.58
Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8AAP)	18.40	4.58
Note: Two-gang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0351 EA 8" Divider (Wiremold 8DIV)	21.15	4.58
Note: Divider allows for separation of services when required.		
26 05 33 16-0352 EA Bottom Housing Assembly (Wiremold 22CHA)	28.97	9.15
Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.		

26 05 43 Underground Ducts And Raceways For Electrical Systems (26 05)

Note: Underground utilities and conduits include warning tape.

26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench (26 05 43)

Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0002 10" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0003 LF Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench	53.88
26 05 43 00-0004 LF Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench	51.73
26 05 43 00-0005 LF Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench	74.82
26 05 43 00-0006 LF Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench	71.84
26 05 43 00-0007 EA End Wall, 10" Wide x 15" Deep Pedestrian Trench	38.00
26 05 43 00-0008 EA End Wall, 10" Wide x 24" Deep Pedestrian Trench	45.97
26 05 43 00-0009 LF Lid, Concrete, 10" Wide Pedestrian Trench	35.92

26 05 43 00-0010 20" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0011 LF Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	68.86
26 05 43 00-0012 LF Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench	65.07
26 05 43 00-0013 LF Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	93.88
26 05 43 00-0014 LF Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench	90.42
26 05 43 00-0015 EA End Wall, 20" Wide x 15" Deep Pedestrian Trench	48.17
26 05 43 00-0016 EA End Wall, 20" Wide x 24" Deep Pedestrian Trench	70.11
26 05 43 00-0017 LF Lid, Concrete, 20" Wide Pedestrian Trench	44.92

26 05 43 00-0018 30" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0019 LF Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	89.43
26 05 43 00-0020 LF Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench	103.33
26 05 43 00-0021 LF Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	111.57
26 05 43 00-0022 LF Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench	107.64
26 05 43 00-0023 EA End Wall, 30" Wide x 15" Deep Pedestrian Trench	69.58
26 05 43 00-0024 EA End Wall, 30" Wide x 24" Deep Pedestrian Trench	93.01
26 05 43 00-0025 LF Lid, Concrete, 30" Wide Pedestrian Trench	55.88

26 05 43 00-0026 40" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0027 LF Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	107.95
26 05 43 00-0028 LF Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	104.37
26 05 43 00-0029 LF Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	132.04
26 05 43 00-0030 LF Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	127.66
26 05 43 00-0031 EA End Wall, 40" Wide x 15" Deep Pedestrian Trench	89.06
26 05 43 00-0032 EA End Wall, 40" Wide x 24" Deep Pedestrian Trench	118.94
26 05 43 00-0033 LF Lid, Concrete, 40" Wide Pedestrian Trench	66.37

26 05 43 00-0034 Precast Concrete Trenches, One Piece Medium Vehicle Trench (26 05 43)

Note: Rated for 7000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0035 10" Wide Medium Vehicle Trench (26 05 43 00-0034)

26 05 43 00-0036 LF Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench	64.41
26 05 43 00-0037 LF Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench	61.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0038 LF Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	89.42	
26 05 43 00-0039 LF Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	85.58	
26 05 43 00-0040 EA End Wall, 10" Wide x 15" Deep Medium Vehicle Trench.....	43.85	
26 05 43 00-0041 EA End Wall, 10" Wide x 24" Deep Medium Vehicle Trench.....	52.11	
26 05 43 00-0042 LF Lid, Concrete 10" Wide Medium Vehicle Trench.....	42.94	
26 05 43 00-0043 LF Lid, Galvanized Steel 10" Wide Medium Vehicle Trench.....	179.26	
26 05 43 00-0044 20" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0045 LF Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	81.71	
26 05 43 00-0046 LF Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	76.82	
26 05 43 00-0047 LF Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	110.83	
26 05 43 00-0048 LF Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	106.36	
26 05 43 00-0049 EA End Wall, 20" Wide x 15" Deep Medium Vehicle Trench.....	54.94	
26 05 43 00-0050 EA End Wall, 20" Wide x 24" Deep Medium Vehicle Trench.....	80.07	
26 05 43 00-0051 LF Lid, Concrete 20" Wide Medium Vehicle Trench.....	53.70	
26 05 43 00-0052 LF Lid, Galvanized Steel 20" Wide Medium Vehicle Trench.....	237.55	
26 05 43 00-0053 30" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0054 LF Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	85.53	
26 05 43 00-0055 LF Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	100.62	
26 05 43 00-0056 LF Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	130.86	
26 05 43 00-0057 LF Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	125.77	
26 05 43 00-0058 EA End Wall, 30" Wide x 15" Deep Medium Vehicle Trench.....	78.92	
26 05 43 00-0059 EA End Wall, 30" Wide x 24" Deep Medium Vehicle Trench.....	106.84	
26 05 43 00-0060 LF Lid, Concrete 30" Wide Medium Vehicle Trench.....	67.00	
26 05 43 00-0061 LF Lid, Galvanized Steel 30" Wide Medium Vehicle Trench.....	296.40	
26 05 43 00-0062 40" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0063 LF Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	125.49	
26 05 43 00-0064 LF Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	120.86	
26 05 43 00-0065 LF Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	153.55	
26 05 43 00-0066 LF Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	147.87	
26 05 43 00-0067 EA End Wall, 40" Wide x 15" Deep Medium Vehicle Trench.....	101.02	
26 05 43 00-0068 EA End Wall, 40" Wide x 24" Deep Medium Vehicle Trench.....	136.60	
26 05 43 00-0069 LF Lid, Concrete 40" Wide Medium Vehicle Trench.....	79.22	
26 05 43 00-0070 LF Lid, Galvanized Steel 40" Wide Medium Vehicle Trench.....	402.60	
26 05 43 00-0071 Precast Concrete Trenches, One Piece H20 Road Crossing Trench (26 05 43)		
Note: H20 Rated for 32000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0072 10" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0073 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	133.83	
26 05 43 00-0074 LF Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	127.59	
26 05 43 00-0075 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	167.84	
26 05 43 00-0076 LF Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	159.97	
26 05 43 00-0077 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	128.69	
26 05 43 00-0078 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	122.75	
26 05 43 00-0079 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	162.70	
26 05 43 00-0080 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	155.14	
26 05 43 00-0081 EA End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	90.12	
26 05 43 00-0082 EA End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	122.13	
26 05 43 00-0083 EA End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	81.96	
26 05 43 00-0084 EA End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	113.80	
26 05 43 00-0085 LF Lid, Concrete 10" Wide Road Crossing Trench.....	62.74	
26 05 43 00-0086 LF Lid, Galvanized Steel 10" Wide Road Crossing Trench.....	194.33	
26 05 43 00-0087 20" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0088 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	143.42	
26 05 43 00-0089 LF Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	137.02	
26 05 43 00-0090 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	190.53	
26 05 43 00-0091 LF Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	181.97	
26 05 43 00-0092 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	143.42	
26 05 43 00-0093 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	137.02	
26 05 43 00-0094 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	185.39	
26 05 43 00-0095 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	177.15	
26 05 43 00-0096 EA End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	128.52	
26 05 43 00-0097 EA End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	175.45	
26 05 43 00-0098 EA End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	116.64	
26 05 43 00-0099 EA End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	163.57	
26 05 43 00-0100 LF Lid, Concrete 20" Wide Road Crossing Trench.....	70.40	
26 05 43 00-0101 LF Lid, Galvanized Steel 20" Wide Road Crossing Trench.....	287.72	
26 05 43 00-0102 30" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0103 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	171.48	

26 Electrical**26 05 Common Work Results For Electrical****26 05 43 Underground Ducts And Raceways For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0104 LF Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	164.16	
26 05 43 00-0105 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	211.84	
26 05 43 00-0106 LF Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	202.75	
26 05 43 00-0107 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	166.34	
26 05 43 00-0108 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	159.32	
26 05 43 00-0109 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	206.70	
26 05 43 00-0110 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	197.75	
26 05 43 00-0111 EA End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	172.52	
26 05 43 00-0112 EA End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	227.39	
26 05 43 00-0113 EA End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	156.92	
26 05 43 00-0114 EA End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	211.79	
26 05 43 00-0115 LF Lid, Concrete 30" Wide Road Crossing Trench.....	88.84	
26 05 43 00-0116 LF Lid, Galvanized Steel 30" Wide Road Crossing Trench.....	360.63	
26 05 43 00-0117 40" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0118 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	191.05	
26 05 43 00-0119 LF Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	183.18	
26 05 43 00-0120 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	235.04	
26 05 43 00-0121 LF Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	225.17	
26 05 43 00-0122 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	185.91	
26 05 43 00-0123 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	178.35	
26 05 43 00-0124 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	229.90	
26 05 43 00-0125 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	220.33	
26 05 43 00-0126 EA End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	214.48	
26 05 43 00-0127 EA End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	282.50	
26 05 43 00-0128 EA End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	195.34	
26 05 43 00-0129 EA End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	263.36	
26 05 43 00-0130 LF Lid, Concrete 40" Wide Road Crossing Trench.....	107.50	
26 05 43 00-0131 LF Lid, Galvanized Steel 40" Wide Road Crossing Trench.....	490.00	
26 05 43 00-0132 Duct Bank (26 05 43)		
Note: Installation of single or multiple configuration underground utility raceways to have 3" concrete leveling base and encased in concrete envelope. Based on 100' run, minimum 30" bury depth. Labor units include material handling, unloading at job site, layout of job, measuring, cutting and fabrication, installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations.		
26 05 43 00-0133 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (26 05 43 00-0132)		
Note: Includes appropriate spacers and fittings.		
26 05 43 00-0134 LF 2 At 2", Rigid Galvanized Conduit Duct Bank.....	22.14	
26 05 43 00-0135 LF 4 At 2", Rigid Galvanized Conduit Duct Bank.....	44.30	
26 05 43 00-0136 LF 2 At 3", Rigid Galvanized Conduit Duct Bank.....	45.19	
26 05 43 00-0137 LF 4 At 3", Rigid Galvanized Conduit Duct Bank.....	90.64	
26 05 43 00-0138 LF 2 At 4", Rigid Galvanized Conduit Duct Bank.....	66.44	
26 05 43 00-0139 LF 4 At 4", Rigid Galvanized Conduit Duct Bank.....	133.72	
26 05 43 00-0140 LF 6 At 4", Rigid Galvanized Conduit Duct Bank.....	201.31	
26 05 43 00-0141 LF 2 At 5", Rigid Galvanized Conduit Duct Bank.....	121.88	
26 05 43 00-0142 LF 4 At 5", Rigid Galvanized Conduit Duct Bank.....	242.92	
26 05 43 00-0143 LF 6 At 5", Rigid Galvanized Conduit Duct Bank.....	375.14	
26 05 43 00-0144 LF 2 At 6", Rigid Galvanized Conduit Duct Bank.....	173.50	
26 05 43 00-0145 LF 4 At 6", Rigid Galvanized Conduit Duct Bank.....	348.21	
26 05 43 00-0146 LF 6 At 6", Rigid Galvanized Conduit Duct Bank.....	517.26	
26 05 43 00-0147 Polyvinyl Chloride (PVC), Type EB Duct Bank System (26 05 43 00-0132)		
Note: Includes appropriate spacers and fittings.		
26 05 43 00-0148 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	5.99	
26 05 43 00-0149 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	13.16	
26 05 43 00-0150 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	25.27	
26 05 43 00-0151 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	7.95	
26 05 43 00-0152 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	15.86	
26 05 43 00-0153 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	32.21	
26 05 43 00-0154 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	10.65	
26 05 43 00-0155 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	21.31	
26 05 43 00-0156 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	42.67	
26 05 43 00-0157 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	63.98	
26 05 43 00-0158 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	13.50	
26 05 43 00-0159 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	26.99	
26 05 43 00-0160 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	52.27	
26 05 43 00-0161 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	74.22	
26 05 43 00-0162 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	23.87	
26 05 43 00-0163 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	36.59	
26 05 43 00-0164 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	73.36	
26 05 43 00-0165 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	118.41	
26 05 43 00-0166 Polyvinyl Chloride (PVC), Type DB Duct Bank System (26 05 43 00-0132)		
Note: Includes appropriate spacers and fittings.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0167 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	6.65	
26 05 43 00-0168 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	14.54	
26 05 43 00-0169 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	27.86	
26 05 43 00-0170 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	8.26	
26 05 43 00-0171 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	16.50	
26 05 43 00-0172 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	32.88	
26 05 43 00-0173 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	10.92	
26 05 43 00-0174 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	21.86	
26 05 43 00-0175 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	43.76	
26 05 43 00-0176 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	65.62	
26 05 43 00-0177 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	13.92	
26 05 43 00-0178 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	27.81	
26 05 43 00-0179 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	53.91	
26 05 43 00-0180 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	76.68	
26 05 43 00-0181 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	24.44	
26 05 43 00-0182 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	37.77	
26 05 43 00-0183 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	75.72	
26 05 43 00-0184 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	121.95	
26 05 43 00-0185 Male Or Female Adapters (26 05 43 00-0132)		
26 05 43 00-0186 EA 2" Adapter	31.22	
26 05 43 00-0187 EA 3" Adapter	44.59	
26 05 43 00-0188 EA 4" Adapter	57.48	
26 05 43 00-0189 EA 5" Adapter	86.69	
26 05 43 00-0190 EA 6" Adapter	107.51	
26 05 46 Utility Poles for Electrical Systems (26 05)		
26 05 46 00-0001 Wood Poles (26 05 46)		
26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention (26 05 46 00-0001)		
Note: Machine dig and set.		
26 05 46 00-0003 EA 25' Treated Wood Pole, Class 3, Machine Dig And Set.....	686.18	238.25
For Class 1 Pole, Add	73.36	
For Class 2 Pole, Add	41.92	
For Class 4 Pole, Deduct	-20.96	
For Class 5 Pole, Deduct	-62.88	
For Class 6 Pole, Deduct	-83.84	
26 05 46 00-0004 EA 30' Treated Wood Pole, Class 3, Machine Dig And Set.....	813.29	264.34
For Class 1 Pole, Add	99.60	
For Class 2 Pole, Add	56.91	
For Class 4 Pole, Deduct	-28.46	
For Class 5 Pole, Deduct	-85.37	
For Class 6 Pole, Deduct	-113.83	
26 05 46 00-0005 EA 35' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,056.98	349.61
For Class 1 Pole, Add	125.24	
For Class 2 Pole, Add	71.57	
For Class 4 Pole, Deduct	-35.78	
For Class 5 Pole, Deduct	-107.35	
For Class 6 Pole, Deduct	-143.14	
26 05 46 00-0006 EA 40' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,203.57	384.54
For Class 1 Pole, Add	152.08	
For Class 2 Pole, Add	86.90	
For Class 4 Pole, Deduct	-43.45	
For Class 5 Pole, Deduct	-130.36	
For Class 6 Pole, Deduct	-173.81	
26 05 46 00-0007 EA 45' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,371.27	428.30
For Class 1 Pole, Add	180.11	
For Class 2 Pole, Add	102.92	
For Class 4 Pole, Deduct	-51.46	
For Class 5 Pole, Deduct	-154.38	
For Class 6 Pole, Deduct	-205.84	
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,557.72	480.68
For Class 1 Pole, Add	208.74	
For Class 2 Pole, Add	119.28	
For Class 4 Pole, Deduct	-59.64	
For Class 5 Pole, Deduct	-178.92	
For Class 6 Pole, Deduct	-238.56	
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,739.06	528.69
For Class 1 Pole, Add	238.56	
For Class 2 Pole, Add	136.32	
For Class 4 Pole, Deduct	-68.16	
For Class 5 Pole, Deduct	-204.48	
For Class 6 Pole, Deduct	-272.64	
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,939.86	581.38
For Class 1 Pole, Add	271.96	
For Class 2 Pole, Add	155.41	
For Class 4 Pole, Deduct	-77.70	
For Class 5 Pole, Deduct	-233.11	
For Class 6 Pole, Deduct	-310.81	

26 Electrical**26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,057.76	633.66
For Class 1 Pole, Add	626.64	
For Class 2 Pole, Add	358.08	
For Class 4 Pole, Deduct	-179.04	
For Class 5 Pole, Deduct	-537.12	
For Class 6 Pole, Deduct	-716.16	
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,349.76	674.05
For Class 1 Pole, Add	700.57	
For Class 2 Pole, Add	400.32	
For Class 4 Pole, Deduct	-200.16	
For Class 5 Pole, Deduct	-600.49	
For Class 6 Pole, Deduct	-800.65	
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,674.35	719.94
For Class 1 Pole, Add	782.05	
For Class 2 Pole, Add	446.88	
For Class 4 Pole, Deduct	-223.44	
For Class 5 Pole, Deduct	-670.33	
For Class 6 Pole, Deduct	-893.77	
26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms.....	20.30	
26 05 46 00-0016 Crossarms (26 05 46)		
Note: Includes hardware and braces.		
26 05 46 00-0017 Wood Single Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	161.76	71.06
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	196.77	71.06
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	207.26	91.36
26 05 46 00-0021 Wood Double Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces.....	420.89	197.96
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	446.96	197.96
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	466.53	197.96
26 05 46 00-0025 Fiberglass Crossarms (26 05 46 00-0016)		
Note: Includes hardware.		
26 05 46 00-0026 Single Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB.....	187.21	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 LB.....	237.82	42.64
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB.....	247.97	45.69
26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB.....	296.99	54.82
26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor.....	430.34	70.05
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor.....	511.92	85.27
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.....	74.85	12.18
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket.....	374.22	60.91
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm.....	305.74	101.51
26 05 46 00-0038 Insulator Support System (26 05 46 00-0016)		
26 05 46 00-0039 Epoxy Construction Units, In Place Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting.....	91.96	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting.....	72.83	
26 05 46 00-0042 EA Deadend Arms, In Place Mounting.....	191.47	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting.....	142.90	
26 05 46 00-0044 Epoxy Construction Units, Grounding Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0045 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting.....	62.58	
26 05 46 00-0046 EA 1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting.....	53.25	
26 05 46 00-0047 EA Deadend Arms, Grounding Mounting.....	171.89	
26 05 46 00-0048 Guying (26 05 46)		
Note: Includes cable, anchor and rod assembly, guy marker.		
26 05 46 00-0049 Down Guy (26 05 46 00-0048)		
26 05 46 00-0050 EA Down Guy For 25' To 40' Pole.....	671.86	284.24
26 05 46 00-0051 EA Down Guy For 45' To 60' Pole.....	681.84	284.24



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0052	EA	Down Guy For 65' To 75' Pole	702.36	284.24
26 05 46 00-0053	EA	Guy Guard, Plastic.....	23.52	
26 05 46 00-0054		Head Guy, 50' Spans (26 05 46 00-0048)		
26 05 46 00-0055	EA	Head Guy (50' Span), For 25' To 40' Pole	983.31	436.51
26 05 46 00-0056	EA	Head Guy (50' Span), For 45' To 60' Pole	983.31	436.51
26 05 46 00-0057	EA	Head Guy (50' Span), For 65' To 75' Pole	983.31	436.51
26 05 46 00-0058		Guy Strain Insulators Additional Insulators (26 05 46 00-0048) Note: As required at same material cost and labor.		
26 05 46 00-0059	EA	Guy Strain Insulator	429.27	213.18
26 05 46 00-0060		Insulators (26 05 46)		
26 05 46 00-0061		Pin Insulator With Pin (26 05 46 00-0060)		
26 05 46 00-0062	EA	5 KV Class 55-3, Pin Insulator With Pin.....	139.06	60.91
26 05 46 00-0063	EA	15 KV Class 55-5, Pin Insulator With Pin.....	144.66	60.91
26 05 46 00-0064		Suspension Insulator (26 05 46 00-0060) Note: Includes clevis and strain clamp.		
26 05 46 00-0065	EA	5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp.....	179.03	81.21
26 05 46 00-0066	EA	15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	194.26	81.21
26 05 46 00-0067	EA	25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	277.34	101.51
26 05 46 00-0068	EA	50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	446.03	162.42
26 05 46 00-0069		Spool Insulator With Clevis (26 05 46 00-0060)		
26 05 46 00-0070	EA	5 KV Class 53-5, Spool Insulator With Clevis	59.61	25.38
26 05 46 00-0071	EA	15 KV Class, Spool Insulator With Clevis	192.73	91.36
26 05 46 00-0072	EA	25 KV Class, Spool Insulator With Clevis	249.51	91.36
26 05 46 00-0073		Secondary Rack (26 05 46 00-0060)		
26 05 46 00-0074	EA	1 Spool Secondary Rack	118.13	50.76
26 05 46 00-0075	EA	2 Spool Secondary Rack	123.05	64.77
26 05 46 00-0076	EA	3 Spool Secondary Rack	184.04	86.29
26 05 46 00-0077	EA	4 Spool Secondary Rack	206.21	86.29
26 05 46 00-0078		Outdoor Load Break Switches (26 05 46) Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.		
26 05 46 00-0079		7.2 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0080	EA	600 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	4,950.23	345.15
26 05 46 00-0081	EA	1,200 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	9,941.45	345.15
26 05 46 00-0082	EA	1,600 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	14,829.99	583.71
26 05 46 00-0083	EA	2,000 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,039.89	583.71
26 05 46 00-0084		14.4 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0085	EA	600 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	6,116.13	345.15
26 05 46 00-0086	EA	1,200 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	11,812.57	345.15
26 05 46 00-0087	EA	1,600 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	14,829.99	583.71
26 05 46 00-0088	EA	2,000 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,039.89	583.71
26 05 46 00-0089		23 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0090	EA	600 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	6,724.80	400.99
26 05 46 00-0091	EA	1,200 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,909.49	400.99
26 05 46 00-0092	EA	1,600 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,418.71	690.30
26 05 46 00-0093	EA	2,000 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,635.50	690.30
26 05 46 00-0094		Square Distribution Poles (26 05 46)		
26 05 46 00-0095		Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0096	EA	20', Steel Taped Shaft Distribution Pole	2,252.15	431.44
26 05 46 00-0097	EA	25', Steel Taped Shaft Distribution Pole	2,519.80	456.81
26 05 46 00-0098	EA	30', Steel Taped Shaft Distribution Pole	2,738.74	507.57
26 05 46 00-0099	EA	35', Steel Taped Shaft Distribution Pole	3,028.90	558.33
26 05 46 00-0100	EA	40', Steel Taped Shaft Distribution Pole	4,045.76	609.09
26 05 46 00-0101		Square Prestressed Concrete Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0102	EA	30', Prestressed Concrete Square Pole For Distribution.....	3,300.40	764.55

26 Electrical**26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0103 EA 35', Prestressed Concrete Square Pole For Distribution.....	3,704.38	838.55
26 05 46 00-0104 EA 40', Prestressed Concrete Square Pole For Distribution.....	4,328.55	937.20
26 05 46 00-0105 EA 45', Prestressed Concrete Square Pole For Distribution.....	4,872.30	1,035.85
26 05 46 00-0106 EA 50', Prestressed Concrete Square Pole For Distribution.....	4,832.09	1,257.81
26 05 46 00-0107 EA 55', Prestressed Concrete Square Pole For Distribution.....	6,866.34	1,479.78
26 05 46 00-0108 EA 60', Prestressed Concrete Square Pole For Distribution.....	8,078.30	1,677.08
26 05 46 00-0109 EA 65', Prestressed Concrete Square Pole For Distribution.....	9,765.84	2,071.69
26 05 46 00-0110 EA 70', Prestressed Concrete Square Pole For Distribution.....	10,925.10	2,268.99
26 05 46 00-0111 Aluminum Tapered Poles (26 05 46)		
26 05 46 00-0112 Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0111)		
26 05 46 00-0113 EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	2,275.18	380.68
26 05 46 00-0114 EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	3,153.92	406.06
26 05 46 00-0115 EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	3,624.62	456.81
26 05 46 00-0116 EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	4,290.64	507.57
26 05 46 00-0117 EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	6,440.38	558.33
26 05 46 00-0118 Steel Service Poles Distribution (26 05 46)		
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
26 05 46 00-0119 Round Tapered Pole (26 05 46 00-0118)		
26 05 46 00-0120 EA 40', Galvanized Steel Tapered Round Pole For Distribution.....	3,211.75	609.09
26 05 46 00-0121 EA 45', Galvanized Steel Tapered Round Pole For Distribution.....	3,715.14	659.84
26 05 46 00-0122 EA 50', Galvanized Steel Tapered Round Pole For Distribution.....	3,960.94	710.60
26 05 46 00-0123 EA 55', Galvanized Steel Tapered Round Pole For Distribution.....	4,656.31	812.11
26 05 46 00-0124 EA 60', Galvanized Steel Tapered Round Pole For Distribution.....	5,727.48	913.64
26 05 46 00-0125 EA 65', Galvanized Steel Tapered Round Pole For Distribution.....	6,790.94	1,159.16
26 05 46 00-0126 EA 70', Galvanized Steel Tapered Round Pole For Distribution.....	7,568.66	1,315.03
26 05 46 00-0127 EA 75', Galvanized Steel Tapered Round Pole For Distribution.....	8,371.68	1,479.78
26 05 46 00-0128 EA 80', Galvanized Steel Tapered Round Pole For Distribution.....	9,405.35	1,677.08
26 05 46 00-0129 EA 85', Galvanized Steel Tapered Round Pole For Distribution.....	10,046.88	1,775.73
26 05 46 00-0130 EA 90', Galvanized Steel Tapered Round Pole For Distribution.....	10,920.05	1,973.03
26 05 46 00-0131 EA 95', Galvanized Steel Tapered Round Pole For Distribution.....	12,016.91	2,219.66
26 05 46 00-0132 EA 100', Galvanized Steel Tapered Round Pole For Distribution.....	13,294.39	2,515.63
26 05 46 00-0133 12 Sided Tapered (26 05 46 00-0118)		
26 05 46 00-0134 EA 40', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	5,348.56	609.09
26 05 46 00-0135 EA 45', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	5,898.26	659.84
26 05 46 00-0136 EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	6,525.23	710.60
26 05 46 00-0137 EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	7,180.13	812.11
26 05 46 00-0138 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	9,487.23	913.64
26 05 46 00-0139 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	10,573.82	1,159.16
26 05 46 00-0140 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	12,240.93	1,315.03
26 05 46 00-0141 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	13,191.21	1,479.78
26 05 46 00-0142 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	14,218.83	1,677.08
26 05 46 00-0143 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	15,065.70	1,775.73
26 05 46 00-0144 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	17,091.02	1,973.03
26 05 46 00-0145 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	18,170.58	2,219.66
26 05 46 00-0146 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	19,488.46	2,515.63
26 05 46 00-0147 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	20,892.63	2,811.58
26 05 46 00-0148 Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0118)		
26 05 46 00-0149 EA Ladder Clips.....	24.79	
26 05 46 00-0150 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	186.04	
26 05 46 00-0151 EA Ground Sleeve-2' At Ground Line.....	187.12	
26 05 46 00-0152 Arms With Baseplates And Endplates (26 05 46 00-0118)		
26 05 46 00-0153 EA 4' Arm With Baseplate And Endplate.....	493.31	101.51
26 05 46 00-0154 EA 5' Arm With Baseplate And Endplate.....	532.67	101.51
26 05 46 00-0155 EA 6' Arm With Baseplate And Endplate.....	674.32	152.27
26 05 46 00-0156 EA 7' Arm With Baseplate And Endplate.....	708.75	152.27
26 05 46 00-0157 EA 8' Arm With Baseplate And Endplate.....	848.87	203.03
26 05 46 00-0158 EA 9' Arm With Baseplate And Endplate.....	888.21	203.03
26 05 46 00-0159 EA 10' Arm With Baseplate And Endplate.....	1,171.78	253.79
26 05 46 00-0160 EA 11' Arm With Baseplate And Endplate.....	1,215.94	253.79
26 05 46 00-0161 Standard Vangs Load Bearing At Any Angle (26 05 46 00-0118)		
26 05 46 00-0162 EA 15,000 LB Standard Vangs Load Bearing At Any Angle.....	235.49	101.51
26 05 46 00-0163 EA 30,000 LB Standard Vangs Load Bearing At Any Angle.....	259.60	101.51
26 05 46 00-0164 EA 45,000 LB Standard Vangs Load Bearing At Any Angle.....	292.58	101.51
26 05 46 00-0165 Armless Construction Brackets (26 05 46 00-0118)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0166	Verticals Insulator And Equipment Bracket (26 05 46 00-0165)	
26 05 46 00-0167 EA 7" 1 Position Vertical Insulation And Equipment Bracket.....	239.42	101.51
26 05 46 00-0168 EA 12" 1 Position Vertical Insulation And Equipment Bracket.....	254.65	101.51
26 05 46 00-0169 EA 12" 3 Position Vertical Insulation And Equipment Bracket.....	279.38	101.51
26 05 46 00-0170 EA 18" 1 Position Vertical Insulation And Equipment Bracket.....	397.22	152.27
26 05 46 00-0171 EA 18" 3 Position Vertical Insulation And Equipment Bracket.....	411.66	152.27
26 05 46 00-0172	Horizontal And Multiple Insulator Brackets (26 05 46 00-0165)	
26 05 46 00-0173 EA Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets.....	227.57	101.51
26 05 46 00-0174 EA Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets.....	259.56	101.51
26 05 46 00-0175 EA Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets.....	381.72	152.27
26 05 46 00-0176 EA Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets.....	457.23	152.27
26 05 46 00-0177 EA Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets.....	590.07	203.03
26 05 46 00-0178 EA Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets.....	630.14	203.03
26 05 46 00-0179	Pole Top Bracket And Pins (26 05 46 00-0165)	
26 05 46 00-0180 EA Pole Top Pin - 5".....	232.21	101.51
26 05 46 00-0181 EA Pole Top Bracket - 5".....	239.98	101.51
26 05 46 00-0182	Angle Pins (26 05 46 00-0165)	
26 05 46 00-0183 EA Angle Pin - 25 Degree, 6".....	231.16	101.51
26 05 46 00-0184 EA Angle Pin - 25 Degree, 7 1/4".....	256.39	101.51
26 05 46 00-0185	Static And Neutral Wire Brackets (26 05 46 00-0165)	
26 05 46 00-0186 EA Neutral Wire Extension Bracket.....	242.97	101.51
26 05 46 00-0187 EA Static Wire Support Bracket.....	245.83	101.51
26 05 46 00-0188	Cutout, Arrestor And Terminator Brackets (26 05 46 00-0165)	
26 05 46 00-0189 EA Cutout And Arrestor, With Mounting Bracket.....	239.94	101.51
26 05 46 00-0190 EA Equipment Mounting T Bracket.....	264.09	101.51
26 05 46 00-0191 EA 15 KV Cutout.....	374.64	
26 05 46 00-0192 EA 9/10 KV Arrestor.....	340.66	101.51
26 05 46 00-0193	Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0165)	
26 05 46 00-0194 EA Parallel Cable Spacer.....	263.53	101.51
26 05 46 00-0195 EA Conduit Standoff Support Bracket.....	254.39	101.51
26 05 46 00-0196 EA Three Transformer Pole Mounted Cluster Bracket.....	571.33	101.51
26 05 46 00-0197	15 KV 200 Amp Solenoid Operated High Voltage Switch (26 05 46 00-0165)	
Note: Includes pole mounting bracket.		
26 05 46 00-0198 EA 15 KV, 1 Phase, Solenoid Switch With Pole Bracket.....	2,004.52	253.79
26 05 46 00-0199	Octagonal Tapered (26 05 46 00-0118)	
26 05 46 00-0200 EA 40', Galvanized Steel Tapered Octagonal Pole For Distribution.....	5,507.38	609.09
26 05 46 00-0201 EA 45', Galvanized Steel Tapered Octagonal Pole For Distribution.....	6,074.41	659.84
26 05 46 00-0202 EA 50', Galvanized Steel Tapered Octagonal Pole For Distribution.....	6,721.59	710.60
26 05 46 00-0203 EA 55', Galvanized Steel Tapered Octagonal Pole For Distribution.....	7,393.82	862.88
26 05 46 00-0204 EA 60', Galvanized Steel Tapered Octagonal Pole For Distribution.....	9,781.78	913.64
26 05 46 00-0205 EA 65', Galvanized Steel Tapered Octagonal Pole For Distribution.....	10,891.47	1,159.16
26 05 46 00-0206 EA 70', Galvanized Steel Tapered Octagonal Pole For Distribution.....	12,610.55	1,233.15
26 05 46 00-0207 EA 75', Galvanized Steel Tapered Octagonal Pole For Distribution.....	13,585.38	1,479.78
26 05 46 00-0208 EA 80', Galvanized Steel Tapered Octagonal Pole For Distribution.....	14,636.09	1,578.43
26 05 46 00-0209 EA 85', Galvanized Steel Tapered Octagonal Pole For Distribution.....	15,507.51	1,775.73
26 05 46 00-0210 EA 90', Galvanized Steel Tapered Octagonal Pole For Distribution.....	17,594.92	1,874.38
26 05 46 00-0211 EA 95', Galvanized Steel Tapered Octagonal Pole For Distribution.....	18,700.47	2,219.66
26 05 46 00-0212 EA 100', Galvanized Steel Tapered Octagonal Pole For Distribution.....	20,044.34	2,367.65
26 05 46 00-0213 EA 105', Galvanized Steel Tapered Octagonal Pole For Distribution.....	21,477.39	2,663.60
26 05 46 00-0214	Removal And Relocation Of Steel Service Poles (26 05 46 00-0118)	
26 05 46 00-0215 LF Removal And Relocation Of Steel Service Poles With Arms Up To 60'.....	35.52	
26 05 46 00-0216	Special Steel Bases For Poles (26 05 46 00-0118)	
26 05 46 00-0217 EA Spin-In Steel Base For Poles.....	181.43	
26 05 46 00-0218 EA Series 3, 25' Pole And less.....	198.30	50.76
26 05 46 00-0219 EA Series 4, 40' Pole And less.....	235.04	58.37
26 05 46 00-0220 EA Series 5, 50' Pole And less.....	266.70	63.45

26 Electrical**26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0221	Primary Fuse Cutouts (26 05 46) Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 05 46 00-0222	Non-Loadbreak Current Limiting Primary Fuse Cutouts (26 05 46 00-0221) Note: Includes the fuse and cut-out switch.		
26 05 46 00-0223	8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0222)		
26 05 46 00-0224	EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting 559.94	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.82	
26 05 46 00-0225	EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting 661.45	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 05 46 00-0226	EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting 762.62	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.62	
26 05 46 00-0227	EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting 777.34	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.74	
26 05 46 00-0228	EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting 777.34	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.74	
26 05 46 00-0229	17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0222)		
26 05 46 00-0230	EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting 559.94	203.03	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.82	
26 05 46 00-0231	17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0222)		
26 05 46 00-0232	EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting 579.34	203.03	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.82	
26 05 46 00-0233	Fuseholders (26 05 46 00-0222) Note: Including current limiting fuse.		
26 05 46 00-0234	EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 478.15	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.82	
26 05 46 00-0235	EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 579.66	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 05 46 00-0236	EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 680.83	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.62	
26 05 46 00-0237	EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 484.86	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.82	
26 05 46 00-0238	EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 586.37	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 05 46 00-0239	EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 478.15	203.03	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.82	
26 05 46 00-0240	Accessories (26 05 46 00-0222)		
26 05 46 00-0241	EA Hot Line Clamp 70.78	22.84	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.23	
26 05 46 00-0242	EA Stirrup 76.94	22.84	
26 05 46 00-0243	Loadbreak Current Limiting Primary Fuse Cutouts (26 05 46 00-0221) Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.		
26 05 46 00-0244	8.3 KV-95 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0245	EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting 711.04	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.82	
26 05 46 00-0246	EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting 812.55	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 05 46 00-0247	EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting 913.72	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.62	
26 05 46 00-0248	EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting 942.52	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.74	
26 05 46 00-0249	EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting 942.52	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.74	
26 05 46 00-0250	17.1 KV-95 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0251	EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting 711.04	203.03	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.82	
26 05 46 00-0252	17.1 KV-125 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0253	EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting 711.04	203.03	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.82	
26 05 46 00-0254	Fuseholders (26 05 46 00-0243) Note: Includes current limiting fuses.		
26 05 46 00-0255	EA 15 Amp, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting 485.08	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.82	
26 05 46 00-0256	EA 25 Amp, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting 586.59	253.79	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0257 EA 40 Amp, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	687.76 182.62	253.79
26 05 46 00-0258 EA 15 Amp, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	485.08 121.82	253.79
26 05 46 00-0259 Pole Mounted Capacitors (26 05 46 00-0243)		
26 05 46 00-0260 EA Capacitors - Pole Mounted 6 KVAR.....	1,270.56	204.65
26 05 46 00-0261 Pole Structure Assemblies (26 05 46 00-0221)		
26 05 46 00-0262 5 KV Pole Structure Assemblies (26 05 46 00-0261)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0263 EA Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	413.57	192.88
26 05 46 00-0264 EA Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	691.26	324.85
26 05 46 00-0265 EA Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	779.90	253.79
26 05 46 00-0266 EA Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	444.33	131.97
26 05 46 00-0267 EA Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	564.95	182.73
26 05 46 00-0268 EA Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	991.26	365.45
26 05 46 00-0269 EA Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	776.80	274.09
26 05 46 00-0270 EA Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,423.43	548.18
26 05 46 00-0271 EA Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,617.14	619.24
26 05 46 00-0272 EA Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	881.40	304.54
26 05 46 00-0273 EA Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	752.26	324.85
26 05 46 00-0274 EA Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,416.31	659.84
26 05 46 00-0275 EA Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,072.82	395.91
26 05 46 00-0276 EA Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	672.11	284.24
26 05 46 00-0277 EA Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,266.98	578.63
26 05 46 00-0278 EA Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	989.14	294.39
26 05 46 00-0279 15 KV Pole Structure Assemblies (26 05 46 00-0261)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0280 EA Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	432.98	192.88
26 05 46 00-0281 EA Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	718.99	324.85
26 05 46 00-0282 EA Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	874.17	253.79
26 05 46 00-0283 EA Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	477.60	131.97
26 05 46 00-0284 EA Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	612.08	172.57
26 05 46 00-0285 EA Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,085.53	365.45
26 05 46 00-0286 EA Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	846.11	274.09
26 05 46 00-0287 EA Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,564.83	548.18
26 05 46 00-0288 EA Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,808.45	619.24
26 05 46 00-0289 EA Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	975.67	304.54
26 05 46 00-0290 EA Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	788.30	324.85
26 05 46 00-0291 EA Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,452.35	659.84
26 05 46 00-0292 EA Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,144.91	395.91
26 05 46 00-0293 EA Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	708.15	274.09
26 05 46 00-0294 EA Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,303.02	578.63
26 05 46 00-0295 EA Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,061.23	355.30
26 05 46 00-0296 25 KV Pole Structure Assemblies (26 05 46 00-0261)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0297 EA Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,305.60	304.54
26 05 46 00-0298 EA Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	797.55	152.27
26 05 46 00-0299 EA Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,156.88	233.48
26 05 46 00-0300 EA Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,531.22	477.12
26 05 46 00-0301 EA Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,454.23	355.30
26 05 46 00-0302 EA Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,354.80	700.45
26 05 46 00-0303 EA Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,252.13	791.81
26 05 46 00-0304 EA Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,575.58	461.89
26 05 46 00-0305 EA Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,373.48	461.89
26 05 46 00-0306 50 KV Pole Structure Assemblies (26 05 46 00-0261)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0307 EA Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,754.05	416.21
26 05 46 00-0308 EA Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	953.55	213.18
26 05 46 00-0309 EA Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,211.86	335.00
26 05 46 00-0310 EA Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,279.56	680.15
26 05 46 00-0311 EA Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,747.10	507.57
26 05 46 00-0312 EA Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,358.33	1,015.15
26 05 46 00-0313 EA Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,969.31	1,126.82
26 05 46 00-0314 EA Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,022.30	548.18
26 05 46 00-0315 EA Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,042.48	634.47
26 05 46 00-0316 EA Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,967.83	598.93
26 05 46 00-0317 Overhead To Underground Conversion Structures (26 05 46 00-0221)		
Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.		

26 Electrical**26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0318	5 KV Structures (26 05 46 00-0317)			
	Note: Excludes pole.			
26 05 46 00-0319	EA	(3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,218.92	2,030.29
26 05 46 00-0320	EA	(3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,218.92	2,030.29
26 05 46 00-0321	EA	(4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,218.92	2,030.29
26 05 46 00-0322	EA	(4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,218.92	2,030.29
26 05 46 00-0323	15 KV Structures (26 05 46 00-0317)			
	Note: Excludes pole.			
26 05 46 00-0324	EA	(3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,349.37	2,030.29
26 05 46 00-0325	EA	(3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,349.37	2,030.29
26 05 46 00-0326	EA	(4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,349.37	2,030.29
26 05 46 00-0327	EA	(4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,349.37	2,030.29
26 05 46 00-0328	25 KV Structures (26 05 46 00-0317)			
	Note: Excludes pole.			
26 05 46 00-0329	EA	(3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,491.69	2,030.29
26 05 46 00-0330	EA	(3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,491.69	2,030.29
26 05 46 00-0331	EA	(4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,491.69	2,030.29
26 05 46 00-0332	EA	(4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,491.69	2,030.29
26 05 46 00-0333	Transformer Stations (26 05 46 00-0221)			
	Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.			
26 05 46 00-0334	5 KV Station (26 05 46 00-0333)			
26 05 46 00-0335	EA	(Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	5,815.80	2,706.39
26 05 46 00-0336	EA	(Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole	6,524.99	3,045.45
26 05 46 00-0337	EA	(Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	7,234.17	3,383.49
26 05 46 00-0338	EA	(Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole	7,234.17	3,383.49
26 05 46 00-0339	EA	(Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole	5,815.80	2,706.39
26 05 46 00-0340	15 KV Stations (26 05 46 00-0333)			
26 05 46 00-0341	EA	(Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	5,946.25	2,705.61
26 05 46 00-0342	EA	(Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole	6,655.44	3,045.45
26 05 46 00-0343	EA	(Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	7,364.62	3,383.49
26 05 46 00-0344	EA	(Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole	7,364.62	3,383.49
26 05 46 00-0345	EA	(Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole	5,946.25	2,706.39
26 05 46 00-0346	25 KV Stations (26 05 46 00-0333)			
26 05 46 00-0347	EA	(Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	6,088.56	2,706.39
26 05 46 00-0348	EA	(Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole	6,797.76	3,045.45
26 05 46 00-0349	EA	(Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	7,506.94	3,383.49
26 05 46 00-0350	EA	(Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole	7,506.94	3,383.49
26 05 46 00-0351	EA	(Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole	6,088.56	2,706.39
26 05 53	Identification for Electrical Systems (26 05)			
26 05 53 00-0001	Conduit Markers Pressure-Sensitive (26 05 53)			
	Note: Stick-on, includes arrow tape.			
26 05 53 00-0002	EA	1/2" Outside Diameter Pressure Sensitive Marker Stick-on	9.88	
26 05 53 00-0003	EA	3/4" Outside Diameter Pressure Sensitive Marker Stick-on	10.34	
26 05 53 00-0004	EA	1" Outside Diameter Pressure Sensitive Marker Stick-on	11.25	
26 05 53 00-0005	EA	1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on	11.43	
26 05 53 00-0006	EA	1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	11.62	
26 05 53 00-0007	EA	2" Outside Diameter Pressure Sensitive Marker Stick-on	11.89	
26 05 53 00-0008	EA	2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	13.72	
26 05 53 00-0009	EA	3" Outside Diameter Pressure Sensitive Marker Stick-on	14.09	
26 05 53 00-0010	EA	3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	14.36	
26 05 53 00-0011	EA	4" Outside Diameter Pressure Sensitive Marker Stick-on	14.64	
26 05 53 00-0012	EA	4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	15.21	
26 05 53 00-0013	EA	5" Outside Diameter Pressure Sensitive Marker Stick-on	15.82	
26 05 53 00-0014	EA	6" Outside Diameter Pressure Sensitive Marker Stick-on	16.36	
26 05 53 00-0015	EA	7" Outside Diameter Pressure Sensitive Marker Stick-on	16.91	
26 05 53 00-0016	EA	8" Outside Diameter Pressure Sensitive Marker Stick-on	18.43	
26 05 53 00-0017	EA	10" Outside Diameter Pressure Sensitive Marker Stick-on	19.43	
26 05 53 00-0018	Labeling Electrical Wires (26 05 53)			
26 05 53 00-0019	EA	Labeling Wire	2.04	

26 05 83 Wiring Connections (26 05)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0001 Tape Wrapped Compression Connectors (26 05 83)		
26 05 83 00-0002 EA #6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	12.23	4.12
26 05 83 00-0003 EA #4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	13.40	4.58
26 05 83 00-0004 EA #2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	14.50	5.03
26 05 83 00-0005 EA 1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	16.78	5.49
26 05 83 00-0006 EA 2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	18.06	5.95
26 05 83 00-0007 EA 3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	20.03	6.40
26 05 83 00-0008 EA 4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	21.47	6.86
26 05 83 00-0009 EA 250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	23.38	7.31
26 05 83 00-0010 EA 300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	25.87	8.24
26 05 83 00-0011 EA 350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	27.15	8.69
26 05 83 00-0012 EA 400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	30.20	9.15
26 05 83 00-0013 EA 500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	32.88	9.61
26 05 83 00-0014 EA 750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	36.74	10.52
26 05 83 00-0015 EA 1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	42.62	11.89
26 05 83 00-0016 One Hole Compression Lugs (26 05 83)		
26 05 83 00-0017 EA #22-18 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	15.83	11.89
26 05 83 00-0018 EA #16-14 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	15.94	11.89
26 05 83 00-0019 EA #12-10 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	18.04	12.81
26 05 83 00-0020 EA #8 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	22.38	14.18
26 05 83 00-0021 EA #6 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	31.41	18.30
26 05 83 00-0022 EA #4 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	36.73	18.30
26 05 83 00-0023 EA #2 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	42.28	18.30
26 05 83 00-0024 EA 1/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	52.04	27.45
26 05 83 00-0025 EA 2/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	60.94	27.45
26 05 83 00-0026 EA 3/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	71.31	27.45
26 05 83 00-0027 EA 4/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	85.96	36.59
26 05 83 00-0028 EA 250 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	101.94	54.90
26 05 83 00-0029 EA 300 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	116.61	54.90
26 05 83 00-0030 EA 350 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	125.33	54.90
26 05 83 00-0031 EA 400 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	136.53	64.05
26 05 83 00-0032 EA 500 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	149.27	64.05
26 05 83 00-0033 EA 750 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	162.21	73.20
26 05 83 00-0034 EA 1,000 MCM Compression Lugs, 1 Hole, Low Voltage, To 600 Volts.....	190.88	82.35
26 05 83 00-0035 Two Hole Compression Lugs (26 05 83)		
26 05 83 00-0036 EA #8 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	32.34	15.55
26 05 83 00-0037 EA #6 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	34.74	16.56
26 05 83 00-0038 EA #4 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	36.60	16.56
26 05 83 00-0039 EA #2 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	42.13	19.03
26 05 83 00-0040 EA 1/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	51.87	23.79
26 05 83 00-0041 EA 2/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	60.77	28.28
26 05 83 00-0042 EA 3/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	71.12	33.12
26 05 83 00-0043 EA 4/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	85.74	40.17
26 05 83 00-0044 EA 250 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	101.69	47.67
26 05 83 00-0045 EA 300 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	116.32	54.44
26 05 83 00-0046 EA 350 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	125.03	58.65
26 05 83 00-0047 EA 400 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	136.17	63.50
26 05 83 00-0048 EA 500 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	148.87	69.35
26 05 83 00-0049 EA 750 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	162.74	75.21
26 05 83 00-0050 EA 1,000 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	201.57	91.50
26 05 83 00-0051 Tape Wrapped Split Bolt Connectors (26 05 83)		
26 05 83 00-0052 EA #8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	48.22	36.59
26 05 83 00-0053 EA #6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	53.02	39.34
26 05 83 00-0054 EA #4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	60.46	41.17
26 05 83 00-0055 EA #2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	70.23	45.75
26 05 83 00-0056 EA 1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	82.96	50.32
26 05 83 00-0057 EA 2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	93.18	54.90
26 05 83 00-0058 EA 3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	116.52	59.47
26 05 83 00-0059 EA 4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	125.01	64.05
26 05 83 00-0060 EA 250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	131.78	68.62
26 05 83 00-0061 EA 300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	150.58	75.48
26 05 83 00-0062 EA 350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	169.38	109.79
26 05 83 00-0063 EA 400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	185.60	91.50
26 05 83 00-0064 EA 500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	201.82	123.52
26 05 83 00-0065 EA 750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	224.35	128.10
26 05 83 00-0066 EA 1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	254.49	137.25
26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone (26 05 83)		
26 05 83 00-0068 EA #8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	65.76	36.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		19.21
26 05 83 00-0069 EA #4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	76.22	36.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		21.79

26 Electrical**26 05 Common Work Results For Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0070 EA 1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts 105.27		54.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.50	
26 05 83 00-0071 EA 4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts 126.13		54.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.19	
26 05 83 00-0072 EA 300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts 151.57		68.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.59	
26 05 83 00-0073 EA 500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts 209.83		91.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.19	
26 05 83 00-0074 Terminal Blocks (26 05 83)		
Note: Labor excludes wire termination.		
26 05 83 00-0075 EA Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt 810.44		338.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	203.33	
26 05 83 00-0076 EA #22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block 212.08		45.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.76	
26 05 83 00-0077 EA #8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block 234.43		45.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.05	
26 05 83 00-0078 Parallel Gutter Tap Or Motor Connection (26 05 83)		
26 05 83 00-0079 EA #8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 32.33		16.56
26 05 83 00-0080 EA #6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 34.74		16.56
26 05 83 00-0081 EA #4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 36.60		16.56
26 05 83 00-0082 EA #2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 42.13		19.03
26 05 83 00-0083 EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 51.87		23.79
26 05 83 00-0084 EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 60.77		28.28
26 05 83 00-0085 EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 71.12		33.12
26 05 83 00-0086 EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 85.74		40.17
26 05 83 00-0087 EA 250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 101.69		47.67
26 05 83 00-0088 EA 300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 116.32		54.44
26 05 83 00-0089 EA 350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 125.03		58.65
26 05 83 00-0090 EA 400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 136.17		63.50
26 05 83 00-0091 EA 500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 148.87		69.35
26 05 83 00-0092 EA 750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap 149.23		69.35
26 05 83 00-0093 EA #8 AWG Parallel Gutter Tap, Versitap, Insulating Cover 32.33		16.56
26 05 83 00-0094 EA #6 AWG Parallel Gutter Tap, Versitap, Insulating Cover 34.74		16.56
26 05 83 00-0095 EA #4 AWG Parallel Gutter Tap, Versitap, Insulating Cover 36.60		16.56
26 05 83 00-0096 EA #2 AWG Parallel Gutter Tap, Versitap, Insulating Cover 42.13		19.03
26 05 83 00-0097 EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover 51.87		23.79
26 05 83 00-0098 EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover 60.77		28.28
26 05 83 00-0099 EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover 71.12		33.12
26 05 83 00-0100 EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover 85.74		40.17
26 05 83 00-0101 EA 250 MCM Parallel Gutter Tap, Versitap, Insulating Cover 101.69		47.67
26 05 83 00-0102 EA 300 MCM Parallel Gutter Tap, Versitap, Insulating Cover 116.32		54.44
26 05 83 00-0103 EA 350 MCM Parallel Gutter Tap, Versitap, Insulating Cover 125.03		58.65
26 05 83 00-0104 EA 400 MCM Parallel Gutter Tap, Versitap, Insulating Cover 136.17		63.50
26 05 83 00-0105 EA 500 MCM Parallel Gutter Tap, Versitap, Insulating Cover 148.87		69.35
26 05 83 00-0106 EA 750 MCM Parallel Gutter Tap, Versitap, Insulating Cover 149.23		69.35
26 05 83 00-0107 Copper Mechanical Lugs (26 05 83)		
26 05 83 00-0108 EA #8 Copper Mechanical Lugs 25.60		11.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 05 83 00-0109 EA #6 Copper Mechanical Lugs 30.74		13.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 83 00-0110 EA #4 Copper Mechanical Lugs 35.52		16.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.61	
26 05 83 00-0111 EA #2 Copper Mechanical Lugs 46.35		20.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 83 00-0112 EA 1/0 Copper Mechanical Lugs 62.42		27.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 05 83 00-0113 EA 2/0 Copper Mechanical Lugs 74.21		31.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.13	
26 05 83 00-0114 EA 3/0 Copper Mechanical Lugs 86.60		36.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 05 83 00-0115 EA 4/0 Copper Mechanical Lugs 98.43		41.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 05 83 00-0116 EA 250 MCM Copper Mechanical Lugs 112.40		45.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 05 83 00-0117 EA 300 MCM Copper Mechanical Lugs 126.14		50.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.20	
26 05 83 00-0118 EA 350 MCM Copper Mechanical Lugs 139.83		54.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	
26 05 83 00-0119 EA 400 MCM Copper Mechanical Lugs 153.43		59.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.66	
26 05 83 00-0120 EA 500 MCM Copper Mechanical Lugs 167.25		64.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.43	
26 05 83 00-0121 EA 750 MCM Copper Mechanical Lugs 189.65		72.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.78	
26 05 83 00-0122 EA 1,000 MCM Copper Mechanical Lugs 214.64		82.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0123			Gel Connectors (26 05 83)		
26 05 83 00-0124	EA		3 Port, #14 to 2/0, Push On Gel Stub Splice Kit.....	39.46	
			Note: Kit contains connector, gel filled cap and cap clamp.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 05 83 00-0125	EA		4 Port, #14 to 2, Gel Tap Splice Kit.....	38.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 83 00-0126			Other Connections (26 05 83)		
26 05 83 00-0127	EA		#14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	9.12	4.18
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.51	
26 05 83 00-0128	EA		#12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	9.19	4.18
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.51	
26 05 83 00-0129	EA		#10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	9.27	4.18
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.51	
26 05 83 00-0130			Motor/Equipment Connections And Terminations (26 05 83)		
			Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors.		
26 05 83 00-0131			AC Single Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0132	EA		<1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	64.50	22.88
26 05 83 00-0133	EA		1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	63.87	22.88
26 05 83 00-0134	EA		3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	73.77	27.45
26 05 83 00-0135	EA		1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	88.88	34.31
26 05 83 00-0136	EA		1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.14	34.31
26 05 83 00-0137	EA		2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.39	34.31
26 05 83 00-0138	EA		3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	94.54	34.31
26 05 83 00-0139	EA		5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	117.92	45.75
26 05 83 00-0140	EA		7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	122.58	45.75
26 05 83 00-0141	EA		10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	155.89	57.19
26 05 83 00-0142			AC Three Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0143	EA		1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	63.87	22.88
26 05 83 00-0144	EA		3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	73.77	27.45
26 05 83 00-0145	EA		1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	88.88	34.31
26 05 83 00-0146	EA		1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.14	34.31
26 05 83 00-0147	EA		2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.39	34.31
26 05 83 00-0148	EA		3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	94.54	34.31
26 05 83 00-0149	EA		5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	117.92	45.75
26 05 83 00-0150	EA		7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	122.58	45.75
26 05 83 00-0151	EA		10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	155.89	57.19
26 05 83 00-0152	EA		15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	162.18	57.19
26 05 83 00-0153	EA		20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	209.85	68.62
26 05 83 00-0154	EA		25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	219.41	68.62
26 05 83 00-0155	EA		30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	302.52	91.50
26 05 83 00-0156	EA		40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	379.72	114.37
26 05 83 00-0157	EA		50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	443.85	137.25
26 05 83 00-0158	EA		60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	533.12	160.11
26 05 83 00-0159	EA		75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	614.35	182.99
26 05 83 00-0160	EA		100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	760.09	228.74
26 05 83 00-0161	EA		125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	894.64	272.20
26 05 83 00-0162	EA		150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,066.73	317.49
26 05 83 00-0163	EA		200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,485.15	476.15
26 05 83 00-0164			AC Three Phase, 460 Volt (26 05 83 00-0130)		
26 05 83 00-0165	EA		1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	63.87	22.88
26 05 83 00-0166	EA		3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	73.77	27.45
26 05 83 00-0167	EA		1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	88.88	34.31
26 05 83 00-0168	EA		1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.14	34.31
26 05 83 00-0169	EA		2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.39	34.31
26 05 83 00-0170	EA		3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	94.54	34.31
26 05 83 00-0171	EA		5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	117.92	45.75
26 05 83 00-0172	EA		7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	122.58	45.75
26 05 83 00-0173	EA		10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	155.89	57.19
26 05 83 00-0174	EA		15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	162.18	57.19
26 05 83 00-0175	EA		20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	209.85	68.62
26 05 83 00-0176	EA		25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	219.40	68.62
26 05 83 00-0177	EA		30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	302.52	91.50
26 05 83 00-0178	EA		40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	379.99	114.55
26 05 83 00-0179	EA		50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	443.85	137.25
26 05 83 00-0180	EA		60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	533.12	160.11
26 05 83 00-0181	EA		75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	614.35	182.99
26 05 83 00-0182	EA		100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	760.09	228.74
26 05 83 00-0183	EA		125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	894.90	272.29

26 Electrical**26 05 Common Work Results For Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0184 EA 150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,067.08	317.67
26 05 83 00-0185 EA 200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,485.94	476.52
26 05 83 00-0186 AC Single Phase, 120 Volt (26 05 83 00-0130)		
26 05 83 00-0187 EA 1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing	64.50	22.88
26 05 83 00-0188 Motor Moisture Sensor (26 05 83 00-0130)		
26 05 83 00-0189 EA Motor Moisture Sensor Located In Winding	655.42	

26 09 Instrumentation and Control for Electrical Systems (26)

Note: Includes testing of new devices and certification.

26 09 23 Lighting Control Devices (26 09)

26 09 23 00-0001 Lighting Contactors (26 09 23)		
Note: Up to 600 volt.		
26 09 23 00-0002 Electrically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0003 NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0004 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0005 EA 20 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	324.21	73.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	43.92	
26 09 23 00-0006 EA 30 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	397.23	82.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	49.41	
26 09 23 00-0007 EA 60 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	732.50	128.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	76.86	
26 09 23 00-0008 EA 100 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,129.81	173.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	104.30	
26 09 23 00-0009 EA 200 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,296.78	228.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	137.25	
26 09 23 00-0010 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0011 EA 20 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	366.00	82.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	49.41	
26 09 23 00-0012 EA 30 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	436.04	91.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	54.90	
26 09 23 00-0013 EA 60 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	796.46	146.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	87.84	
26 09 23 00-0014 EA 100 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,222.11	192.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	115.29	
26 09 23 00-0015 EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,468.07	251.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	150.97	
26 09 23 00-0016 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0017 EA 20 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	428.61	91.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	54.90	
26 09 23 00-0018 EA 30 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	510.53	100.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	60.39	
26 09 23 00-0019 EA 60 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	958.12	164.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	98.82	
26 09 23 00-0020 EA 100 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,453.62	210.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	126.26	
26 09 23 00-0021 EA 200 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	3,130.82	274.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	164.69	
26 09 23 00-0022 NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0023 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0024 EA 20 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	513.24	73.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	43.92	
26 09 23 00-0025 EA 30 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	647.84	82.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	49.41	
26 09 23 00-0026 EA 60 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,232.26	128.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	76.86	
26 09 23 00-0027 EA 100 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,839.63	173.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	104.30	
26 09 23 00-0028 EA 200 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	3,508.32	228.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	137.25	
26 09 23 00-0029 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0030 EA 20 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	535.26	82.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	49.41	
26 09 23 00-0031 EA 30 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	686.66	91.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	54.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0032 EA 60 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,297.68 87.84	146.40
26 09 23 00-0033 EA 100 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,931.44 115.29	192.14
26 09 23 00-0034 EA 200 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,679.12 150.97	251.62
26 09 23 00-0035 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0036 EA 20 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	579.73 54.90	91.50
26 09 23 00-0037 EA 30 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	761.14 60.39	100.64
26 09 23 00-0038 EA 60 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,654.26 98.82	164.69
26 09 23 00-0039 EA 100 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,357.87 126.26	210.45
26 09 23 00-0040 EA 200 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,879.25 164.69	274.49
26 09 23 00-0041 Mechanically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0042 NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)		
26 09 23 00-0043 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0044 EA 20 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	461.97 43.92	73.20
26 09 23 00-0045 EA 30 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	525.22 49.41	82.35
26 09 23 00-0046 EA 60 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	981.65 76.86	128.10
26 09 23 00-0047 EA 100 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,365.76 104.30	173.84
26 09 23 00-0048 EA 200 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,062.78 137.25	228.74
26 09 23 00-0049 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0050 EA 20 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	495.75 49.41	82.35
26 09 23 00-0051 EA 30 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	565.01 54.90	91.50
26 09 23 00-0052 EA 60 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,047.07 87.84	146.40
26 09 23 00-0053 EA 100 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,458.55 115.29	192.14
26 09 23 00-0054 EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,441.70 150.97	251.62
26 09 23 00-0055 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0056 EA 20 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	536.48 54.90	91.50
26 09 23 00-0057 EA 30 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	603.83 60.39	100.64
26 09 23 00-0058 EA 60 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,221.92 98.82	164.69
26 09 23 00-0059 EA 100 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,704.23 126.26	210.45
26 09 23 00-0060 EA 200 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,141.09 164.69	274.49
26 09 23 00-0061 NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)		
26 09 23 00-0062 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0063 EA 20 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	675.03 43.92	73.20
26 09 23 00-0064 EA 30 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	775.83 49.41	82.35
26 09 23 00-0065 EA 60 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,482.87 76.86	128.10
26 09 23 00-0066 EA 100 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,075.59 104.30	173.84
26 09 23 00-0067 EA 200 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,273.34 137.25	228.74
26 09 23 00-0068 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0069	EA	20 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	715.74 49.41	82.35
26 09 23 00-0070	EA	30 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	815.63 54.90	91.50
26 09 23 00-0071	EA	60 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,548.29 87.84	146.40
26 09 23 00-0072	EA	100 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,168.86 115.29	192.14
26 09 23 00-0073	EA	200 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,653.23 150.97	251.62
26 09 23 00-0074		4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0075	EA	20 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	759.14 54.90	91.50
26 09 23 00-0076	EA	30 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	854.45 60.39	100.64
26 09 23 00-0077	EA	60 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,918.07 98.82	164.69
26 09 23 00-0078	EA	100 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,608.49 126.26	210.45
26 09 23 00-0079	EA	200 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,853.85 164.69	274.49
26 09 23 00-0080		Combination Lighting Contactors (26 09 23) Note: Up to 600 volt.		
26 09 23 00-0081		Electrically Held, Combination Lighting Contactors (26 09 23 00-0080)		
26 09 23 00-0082		NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0083		3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0082)		
26 09 23 00-0084	EA	30 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	871.79 60.39	100.64
26 09 23 00-0085	EA	60 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,368.49 96.62	161.04
26 09 23 00-0086	EA	100 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,185.80 126.82	211.36
26 09 23 00-0087	EA	200 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,936.82 166.07	276.78
26 09 23 00-0088		NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0089		3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0088)		
26 09 23 00-0090	EA	30 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,539.35 60.39	100.64
26 09 23 00-0091	EA	60 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,397.32 96.62	161.04
26 09 23 00-0092	EA	100 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,981.12 126.82	211.36
26 09 23 00-0093	EA	200 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,233.36 166.07	276.78
26 09 23 00-0094		Mechanically Held, Combination Lighting Contactors (26 09 23 00-0080)		
26 09 23 00-0095		NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0094)		
26 09 23 00-0096		3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0095)		
26 09 23 00-0097	EA	30 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	948.00 60.39	100.64
26 09 23 00-0098	EA	60 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,632.29 96.62	161.04
26 09 23 00-0099	EA	100 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,435.68 126.82	211.36



Electrical		26
Instrumentation and Control for Electrical Systems		26 09
Lighting Control Devices		26 09 23

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0100 EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,646.88 166.07	276.78
26 09 23 00-0101 NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors ^(26 09 23 00-0094)		
26 09 23 00-0102 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors ^(26 09 23 00-0101)		
26 09 23 00-0103 EA 30 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,616.30 60.39	100.64
26 09 23 00-0104 EA 60 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,662.58 96.62	161.04
26 09 23 00-0105 EA 100 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,231.73 126.82	211.36
26 09 23 00-0106 EA 200 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,943.43 166.07	276.78
26 09 23 00-0107 Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket ^(26 09 23)		
26 09 23 00-0108 EA Photo-Cell, 105-130 Volt Relay, Lighting Arrester, Receptacle And Bracket <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.07 14.30	23.79
26 09 23 00-0109 EA Photo-Cell, 105-285 Volt Relay, Lighting Arrester, Receptacle And Bracket <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.91 14.30	23.79
26 09 23 00-0110 Dimming Module System (Lutron Grafik Eye) ^(26 09 23)		
26 09 23 00-0111 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,008.33 54.90	91.50
26 09 23 00-0112 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,288.64 54.90	91.50
26 09 23 00-0113 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,573.95 54.90	91.50
26 09 23 00-0114 Light Control Panels ^(26 09 23)		
26 09 23 00-0115 Lighting Control Panels (Watt Stopper) ^(26 09 23 00-0114)		
26 09 23 00-0116 Lighting Control Panels (Watt Stopper) ^(26 09 23 00-0115)		
26 09 23 00-0117 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,290.78 76.97	128.29
26 09 23 00-0118 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,215.02 82.47	137.45
26 09 23 00-0119 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,361.99 82.47	137.45
26 09 23 00-0120 EA 8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,019.69 82.47	137.45
26 09 23 00-0121 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,192.24 82.47	137.45
26 09 23 00-0122 EA 4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,432.12 76.97	128.29
26 09 23 00-0123 EA 8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,536.64 82.47	137.45
26 09 23 00-0124 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,709.01 82.47	137.45
26 09 23 00-0125 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,088.65 82.47	137.45
26 09 23 00-0126 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,261.18 82.47	137.45
26 09 23 00-0127 Accessories For Lighting Control Panels (Watt Stopper) ^(26 09 23 00-0115)		
26 09 23 00-0128 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.76 13.75	22.91
26 09 23 00-0129 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.50 11.00	18.32
26 09 23 00-0130 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.16 11.00	18.32
26 09 23 00-0131 Lighting Control Panels (Synergy) ^(26 09 23 00-0114)		
26 09 23 00-0132 Lighting Control Panels (Synergy) ^(26 09 23 00-0131)		
26 09 23 00-0133 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,596.03 82.47	137.45

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0134 Accessories For Lighting Control Panels (Synergy) (26 09 23 00-0131)		
26 09 23 00-0135 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL).....	385.74	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.75	
26 09 23 00-0136 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20).....	149.55	9.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0137 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT).....	89.25	13.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 09 23 00-0138 Lighting Switching Panels (Lutron) (26 09 23 00-0114)		
26 09 23 00-0139 Lighting Switching Panels (Lutron) (26 09 23 00-0138)		
26 09 23 00-0140 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT).....	1,312.33	137.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.47	
26 09 23 00-0141 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT).....	1,777.13	146.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.97	
26 09 23 00-0142 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT).....	2,307.95	155.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.47	
26 09 23 00-0143 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) (26 09 23 00-0114)		
26 09 23 00-0144 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z).....	897.13	128.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.97	
26 09 23 00-0145 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z).....	1,013.60	128.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.97	
26 09 23 00-0146 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z).....	1,130.07	128.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.97	
26 09 23 00-0147 Power Filters (26 09 23 00-0114)		
26 09 23 00-0148 EA 600 Amp 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure.....	33,980.60	762.45
26 09 23 00-0149 EA 200 Amp 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure.....	20,136.41	331.49
26 09 23 00-0150 Signal Filters (26 09 23 00-0114)		
26 09 23 00-0151 EA 0.5 Amp 125 V 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case.....	15,450.43	693.18
26 09 23 00-0152 EA 0.5 Amp 125 V 200 Conductor Signal Filter With 29" X 40" X 11" Case.....	10,583.89	423.63
26 09 23 00-0153 EA 0.5 Amp 125 V 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case.....	5,901.20	245.94
26 09 23 00-0154 EA 5 Amp 24 V DC 5 V 2 - 1 Pair Conductor Signal Filter With Case.....	8,064.91	245.94
26 09 23 00-0155 Lighting Control Devices (Encelium) (26 09 23)		
26 09 23 00-0156 EA 8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120V) With Polaris 3D™ (Encelium EN-ECU-G4-P3D).....	8,867.23	91.63
Note: Excludes GB II cable.		
26 09 23 00-0157 EA Server, System Support Unit (SSU) (Encelium EN-SSU-1U).....	4,078.95	91.63
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0158 EA Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT).....	2,145.19	91.63
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0159 EA Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT).....	8,919.11	91.63
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0160 EA Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK).....	75.59	11.45
Note: Excludes GB II cable.		
26 09 23 00-0161 EA Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR).....	113.90	11.45
Note: Excludes GB II cable.		
26 09 23 00-0162 EA Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK).....	147.63	22.91
Note: Excludes GB II cable.		
26 09 23 00-0163 EA Damp Rated, Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR).....	175.80	22.91
Note: Excludes GB II cable.		
26 09 23 00-0164 EA Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK).....	98.50	22.91
Note: Excludes GB II cable.		
26 09 23 00-0165 EA Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR).....	136.81	22.91
Note: Excludes GB II cable.		
26 09 23 00-0166 EA 16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700).....	338.58	45.82
Note: Excludes cable.		
26 09 23 00-0167 EA Rack Mounted, Wired Power Bar (Encelium PWR-700).....	259.87	45.82
26 09 23 00-0168 EA Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800).....	457.73	45.82
26 09 23 00-0169 EA Wall Mounting, 4U Mounting Rack (Encelium RCK-700).....	170.93	45.82
26 09 23 00-0170 EA 4 Port, 10/100 VPN, Dual WAN, Wired Router (Encelium RV042).....	510.44	45.82
Note: Excludes cable.		
26 09 23 00-0171 EA Wired BACnet Interface (Encelium BIF-600).....	5,206.69	183.27
Note: Excludes cable.		
26 09 23 00-0172 EA Wired AV Interface (Encelium EN-SW-AVINT).....	3,810.39	45.82
Note: Excludes cable.		
26 09 23 00-0173 EA Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH).....	147.47	11.45
Note: Includes white finish. Excludes GB II cable.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0174	EA		3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH) Note: Includes white finish. Excludes GB II cable.	178.60	11.45
26 09 23 00-0175	EA		3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH)..... Note: Includes white finish. Excludes GB II cable.	171.09	11.45
26 09 23 00-0176	EA		5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH) Note: Includes white finish. Excludes GB II cable.	178.60	11.45
26 09 23 00-0177	EA		6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH)..... Note: Includes white finish. Excludes GB II cable.	171.09	11.45
26 09 23 00-0178	EA		Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT) Note: Includes white finish. Excludes GB II cable.	130.65	11.45
26 09 23 00-0179	EA		Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT)..... Note: Includes white finish. Excludes GB II cable.	178.60	11.45
26 09 23 00-0180	EA		3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT)..... Note: Includes white finish. Excludes GB II cable.	171.09	11.45
26 09 23 00-0181	EA		Wired Key Switch Controller (Encelium KSW-300)..... Note: Excludes GB II cable.	127.62	11.45
26 09 23 00-0182	EA		Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH) Note: Includes white finish.	57.57	11.45
26 09 23 00-0183	EA		1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2) Note: Excludes GB II cable.	53.70	22.91
26 09 23 00-0184	EA		1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2) Note: Excludes GB II cable.	54.03	22.91
26 09 23 00-0185	EA		5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2) Note: Excludes GB II cable.	56.68	22.91
26 09 23 00-0186	EA		10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2) Note: Excludes GB II cable.	59.30	22.91
26 09 23 00-0187	EA		15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2) Note: Excludes GB II cable.	62.42	22.91
26 09 23 00-0188	EA		20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2) Note: Excludes GB II cable.	65.24	22.91
26 09 23 00-0189	EA		25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2) Note: Excludes GB II cable.	68.70	22.91
26 09 23 00-0190	EA		50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2) Note: Excludes GB II cable.	84.35	22.91
26 09 23 00-0191	EA		1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2)..... Note: Excludes GB II cable.	479.96	22.91
26 09 23 00-0192	EA		Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2)..... Note: Excludes GB II cable.	125.25	22.91
26 09 23 00-0193	EA		1,000' Box, Category 5, Network Cable (Encelium NWC-400-B)..... Note: Excludes GB II cable.	616.27	22.91
26 09 23 00-0194	EA		Indoor Wired Photo Sensor (Encelium PHS-700) Note: Excludes GB II cable.	376.86	45.82
26 09 23 00-0195	EA		Outdoor Wired Photo Sensor (Encelium PHS-800) Note: Excludes GB II cable.	376.86	45.82
26 09 23 00-0196	EA		Skylight Wired Photo Sensor (Encelium PHS-900)..... Note: Excludes GB II cable.	376.86	45.82
26 09 23 00-0197	EA		450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450)..... Note: Excludes GB II cable.	207.25	45.82
26 09 23 00-0198	EA		1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500)..... Note: Excludes GB II cable.	201.56	45.82
26 09 23 00-0199	EA		2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00) Note: Excludes GB II cable.	205.36	45.82
26 09 23 00-0200	EA		High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY)..... Note: Excludes GB II cable.	224.31	45.82
26 09 23 00-0201	EA		Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG)..... Note: Excludes GB II cable.	205.36	45.82
26 09 23 00-0202	EA		Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor, 120-277VAC, No Neutral (Encelium SSP-LNV) Note: Excludes GB II cable.	167.45	45.82
26 09 23 00-0203	EA		High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPM24V) Note: Excludes GB II cable.	176.12	45.82
26 09 23 00-0204	EA		High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPSM24V)..... Note: Excludes GB II cable.	176.12	45.82
26 09 23 00-0205	EA		360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLNS360) Note: Excludes GB II cable.	103.91	45.82
26 09 23 00-0206	EA		Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24) Note: Excludes GB II cable.	210.05	45.82
26 09 23 00-0207	EA		Hallway, Wired Occupancy Sensor (Encelium HW-13) Note: Excludes GB II cable.	287.32	45.82
26 09 23 00-0208	EA		500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500) Note: Excludes GB II cable.	254.64	45.82
26 09 23 00-0209	EA		1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000) Note: Excludes GB II cable.	269.80	45.82
26 09 23 00-0210	EA		2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000) Note: Excludes GB II cable.	277.39	45.82
26 09 23 00-0211	EA		1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM- 1200) Note: Excludes GB II cable.	252.74	45.82
26 09 23 00-0212	EA		Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor, 120-277VAC, No Neutral (Encelium SSM-LNV) Note: Excludes GB II cable.	214.84	45.82
26 09 23 00-0213	EA		500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-MOW)..... Note: Excludes GB II cable.	262.79	45.82
26 09 23 00-0214	EA		1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-MOW) Note: Excludes GB II cable.	260.81	45.82
26 09 23 00-0215	EA		2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-MOW)..... Note: Excludes GB II cable.	286.67	45.82
26 09 23 00-0216	EA		1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-MOW) Note: Excludes GB II cable.	278.72	45.82
26 09 23 00-0217	EA		Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24)..... Note: Excludes GB II cable.	298.15	45.82
26 09 23 00-0218	EA		Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV)..... Note: Excludes GB II cable.	278.80	45.82

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0219 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT) Note: Excludes GB II cable.	278.80	45.82
26 09 23 00-0220 EA 10A, 120V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C).....	191.45	45.82
26 09 23 00-0221 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C).....	203.36	45.82
26 09 23 00-0222 EA 20A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P).....	338.32	45.82
26 09 23 00-0223 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P).....	360.19	45.82
26 09 23 00-0224 EA 10A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D).....	271.94	45.82
26 09 23 00-0225 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D).....	282.51	45.82
26 09 23 00-0226 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2)..... Note: Excludes GB II cable and enclosure.	789.82	91.63
26 09 23 00-0227 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V) Note: Excludes GB II cable.	2,509.41	366.53
26 09 23 00-0228 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V) Note: Excludes GB II cable.	3,575.22	366.53
26 09 23 00-0229 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V) Note: Excludes GB II cable.	4,641.01	366.53
26 09 23 00-0230 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2)..... Note: Excludes GB II cable.	394.91	45.82
26 09 23 00-0231 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2) Note: Excludes GB II cable.	449.07	45.82
26 09 23 00-0232 EA Wireless Manager (Encelium EN-WM-ZB-P3D)..... Note: Includes white finish.	1,174.76	45.82
26 09 23 00-0233 EA Wireless Control Module (Encelium EN-WCM-ZB).....	168.58	22.91
26 09 23 00-0234 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR).....	197.46	22.91
26 09 23 00-0235 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK).....	198.18	22.91
26 09 23 00-0236 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR).....	204.99	22.91
26 09 23 00-0237 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	145.67	11.45
26 09 23 00-0238 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	145.67	11.45
26 09 23 00-0239 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	145.67	11.45
26 09 23 00-0240 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	145.67	11.45
26 09 23 00-0241 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)..... Note: Includes white finish.	145.67	11.45
26 09 23 00-0242 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	150.36	11.45
26 09 23 00-0243 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	329.92	45.82
26 09 23 00-0244 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB).....	214.39	45.82
26 09 23 00-0245 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB).....	214.39	45.82
26 09 23 00-0246 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	243.27	45.82
26 09 23 00-0247 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	243.27	45.82
26 09 23 00-0248 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	145.67	11.45
26 09 23 00-0249 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	145.67	11.45
26 09 23 00-0250 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	145.67	11.45
26 09 23 00-0251 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	145.67	11.45
26 09 23 00-0252 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)..... Note: Includes white finish.	145.67	11.45
26 09 23 00-0253 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)..... Note: Includes white finish.	150.36	11.45
26 09 23 00-0254 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	329.92	45.82
26 09 23 00-0255 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....	145.67	11.45
26 09 23 00-0256 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	145.67	11.45
26 09 23 00-0257 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)..... Note: Includes white finish.	145.67	11.45
26 09 23 00-0258 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	150.36	11.45
26 09 23 00-0259 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	329.92	45.82
26 09 23 00-0260 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB).....	214.39	45.82
26 09 23 00-0261 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB).....	214.39	45.82
26 09 23 00-0262 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	243.27	45.82
26 09 23 00-0263 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	243.27	45.82
26 09 23 00-0264 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	145.67	11.45
26 09 23 00-0265 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	145.67	11.45
26 09 23 00-0266 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	145.67	11.45
26 09 23 00-0267 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	145.67	11.45
26 09 23 00-0268 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)..... Note: Includes white finish.	145.67	11.45
26 09 23 00-0269 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	150.36	11.45
26 09 23 00-0270 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	329.92	45.82
26 09 23 00-0271 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB).....	108.23	45.82
26 09 23 00-0272 EA Emergency Lighting Control Unit (WattStopper ELCU-200).....	193.86	41.24
26 09 23 00-0273 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit).....	424.99	45.82

26 09 23 00-0274 Lighting Control Sensors (26 09 23)

26 09 23 00-0275 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI).....	224.67	20.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0276 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI)	224.67	20.61
26 09 23 00-0277 EA Smart Multi-sensor (LG 9SD131VVD.ALBW000).....	198.05	20.61
26 09 23 00-0278 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U)	61.11	13.75
26 09 23 00-0279 EA Clip for Performance Troffer (LG BKTTR015122.BUAAWAA).....	5.70	
26 09 23 00-0280 EA Clip for Downlight (BKTCE015123.BUAAWAA).....	39.11	
26 09 23 00-0281 EA Clip for Tube (LG BKTU015121.BUAAWAA).....	7.64	
26 09 23 00-0282 Radio Controlled Devices (Lutron) (26 09 23)		
26 09 23 00-0283 Tabletop Transmitters For Radio Controlled Devices (26 09 23 00-0282)		
26 09 23 00-0284 Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0283)		
26 09 23 00-0285 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH).....	288.19	13.75
26 09 23 00-0286 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH).....	373.08	13.75
26 09 23 00-0287 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH)	468.58	13.75
26 09 23 00-0288 Dimmable Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0283)		
26 09 23 00-0289 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH)	288.19	13.75
26 09 23 00-0290 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH)	341.24	13.75
26 09 23 00-0291 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH).....	468.58	13.75
26 09 23 00-0292 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH).....	288.19	13.75
26 09 23 00-0293 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH).....	373.08	13.75
26 09 23 00-0294 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH).....	468.58	13.75
26 09 23 00-0295 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0283)		
26 09 23 00-0296 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH)	373.08	13.75
26 09 23 00-0297 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH).....	468.58	13.75
26 09 23 00-0298 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH).....	468.58	13.75
26 09 23 00-0299 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter (26 09 23 00-0283)		
26 09 23 00-0300 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH)	288.19	13.75
26 09 23 00-0301 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH).....	373.08	13.75
26 09 23 00-0302 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH).....	341.24	13.75
26 09 23 00-0303 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH).....	415.52	13.75
26 09 23 00-0304 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH)	373.08	13.75
26 09 23 00-0305 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH).....	447.36	13.75
26 09 23 00-0306 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH).....	373.08	13.75
26 09 23 00-0307 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter (26 09 23 00-0283)		
26 09 23 00-0308 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH).....	288.19	13.75
26 09 23 00-0309 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH).....	373.08	13.75
26 09 23 00-0310 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH)	373.08	13.75
26 09 23 00-0311 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH)	468.58	13.75
26 09 23 00-0312 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH)	373.08	13.75
26 09 23 00-0313 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH)	468.58	13.75
26 09 23 00-0314 Output Switch Closure Controls, Tabletop Wireless Transmitter (26 09 23 00-0283)		
26 09 23 00-0315 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH)	288.19	13.75
26 09 23 00-0316 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH).....	373.08	13.75
26 09 23 00-0317 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C2C4-WH)	468.58	13.75

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 09 23 00-0318		Accessories For Tabletop Wireless Transmitter (26 09 23 00-0283)			
26 09 23 00-0319	EA	Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH)	65.35	13.75	
26 09 23 00-0320		Wall Box Transmitters For Radio Controlled Devices (26 09 23 00-0282)			
26 09 23 00-0321	EA	On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH)	266.97	13.75	
26 09 23 00-0322	EA	Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH)	288.19	13.75	
26 09 23 00-0323	EA	Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH)	288.19	13.75	
26 09 23 00-0324	EA	Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH)	288.19	13.75	
26 09 23 00-0325	EA	Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH)	288.19	13.75	
26 09 23 00-0326	EA	Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH)	288.19	13.75	
26 09 23 00-0327		Interfaces For Radio Controlled Devices (26 09 23 00-0282)			
26 09 23 00-0328	EA	Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	266.97	13.75	
26 09 23 00-0329	EA	Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	266.97	13.75	
26 09 23 00-0330	EA	Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000)	266.97	13.75	
26 09 23 00-0331	EA	Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8)	536.49	13.75	
26 09 23 00-0332	EA	RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232)	765.69	13.75	
26 09 23 00-0333	EA	Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI)	765.69	13.75	
26 09 23 00-0334		Fluorescent Controllers For Radio Controlled Devices (26 09 23 00-0282)			
26 09 23 00-0335	EA	On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW)	341.24	13.75	
26 09 23 00-0336	EA	Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F)	383.69	13.75	
26 09 23 00-0337	EA	Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC)	447.36	13.75	
26 09 23 00-0338		AC Motor Group Controllers For Radio Controlled Devices (26 09 23 00-0282)			
26 09 23 00-0339	EA	Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC)	500.41	13.75	
26 09 23 00-0340	EA	Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC)	686.11	13.75	
26 09 23 00-0341		RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) (26 09 23)			
26 09 23 00-0342		RF Wireless Technology, Switches (Lutron® Maestro Wireless®) (26 09 23 00-0341)			
26 09 23 00-0343	EA	6 Amp Lighting, 3 Amp Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS)	85.50	18.32	
26 09 23 00-0344	EA	8 Amp Lighting, 5.8 Amp Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120)	99.01	18.32	
26 09 23 00-0345	EA	8 Amp Lighting, 3 Amp Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV)	149.38	18.32	
26 09 23 00-0346	EA	120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS)	62.96	18.32	
26 09 23 00-0347	EA	277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277)	74.76	18.32	
26 09 23 00-0348	EA	120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS)	67.91	18.32	
26 09 23 00-0349	EA	277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277)	79.96	18.32	
26 09 23 00-0350		RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) (26 09 23 00-0341)			
26 09 23 00-0351	EA	600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M)	82.38	18.32	
26 09 23 00-0352	EA	600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV)	88.62	18.32	
26 09 23 00-0353	EA	600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120)	104.21	18.32	
26 09 23 00-0354	EA	1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120)	113.38	22.91	
26 09 23 00-0355	EA	600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120)	134.87	18.32	
26 09 23 00-0356	EA	120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R)	50.94	18.32	
26 09 23 00-0357	EA	277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277)	59.52	18.32	
26 09 23 00-0358	EA	120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD)	54.07	18.32	
26 09 23 00-0359	EA	277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277)	62.64	18.32	
26 09 23 00-0360	EA	6 Amp, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV)	157.70	32.07	
26 09 23 00-0361		Occupancy Sensors (Watt Stopper) (26 09 23)			
		Note: Includes testing of new devices and certification.			
26 09 23 00-0362		Occupancy Sensors (26 09 23 00-0361)			
		Note: Exclude boxes.			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0363 Wall Switch Mounted Occupancy Sensors (26 09 23 00-0362)		
26 09 23 00-0364 Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0363)		
26 09 23 00-0365 EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100).....	90.93	9.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0366 EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200)	107.00	9.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0367 Passive Infrared, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0363)		
26 09 23 00-0368 EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100)	75.38	9.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0369 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS)	70.51	9.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0370 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100)	79.61	9.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0371 EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200).....	91.90	9.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0372 EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD)	90.89	9.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0373 Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0363)		
26 09 23 00-0374 EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100).....	131.49	9.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0375 EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200)	141.66	9.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0376 Wall Switch Mounted Occupancy Sensor Accessories (26 09 23 00-0363)		
26 09 23 00-0377 EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	5.56	2.29
26 09 23 00-0378 EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	6.37	2.29
26 09 23 00-0379 EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	6.37	2.29
26 09 23 00-0380 Ceiling Mounted Occupancy Sensors (26 09 23 00-0362)		
26 09 23 00-0381 Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0380)		
26 09 23 00-0382 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0381)		
26 09 23 00-0383 EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....	121.73	20.61
26 09 23 00-0384 EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	139.21	20.61
26 09 23 00-0385 EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	156.83	20.61
26 09 23 00-0386 EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H)	155.24	20.61
26 09 23 00-0387 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0381)		
26 09 23 00-0388 EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605)	132.08	20.61
26 09 23 00-0389 EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105)	149.82	20.61
26 09 23 00-0390 EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205)	166.61	20.61
26 09 23 00-0391 EA 90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255)	169.46	20.61
26 09 23 00-0392 EA 600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600).....	142.68	20.61
26 09 23 00-0393 EA 1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100)	160.86	20.61
26 09 23 00-0394 EA 2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200)	178.97	20.61
26 09 23 00-0395 EA 90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	184.18	20.61
26 09 23 00-0396 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0381)		
26 09 23 00-0397 EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	137.20	20.61
26 09 23 00-0398 EA 1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	158.40	20.61
26 09 23 00-0399 EA 2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	176.13	20.61
26 09 23 00-0400 EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	129.39	20.61
26 09 23 00-0401 EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	156.10	20.61
26 09 23 00-0402 EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	164.75	20.61
26 09 23 00-0403 EA 500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	138.30	20.61

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0404	EA	1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	153.68	20.61
26 09 23 00-0405	EA	2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	172.67	20.61
26 09 23 00-0406		Passive Infrared, Ceiling Mounted Occupancy Sensors (26 09 23 00-0380)		
26 09 23 00-0407	EA	30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	101.31	20.61
26 09 23 00-0408	EA	HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....	103.38	20.61
26 09 23 00-0409	EA	Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....	108.27	20.61
26 09 23 00-0410	EA	Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....	121.40	20.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.37	
26 09 23 00-0411	EA	Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	122.99	20.61
26 09 23 00-0412	EA	Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....	129.85	20.61
26 09 23 00-0413	EA	Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300).....	140.85	20.61
26 09 23 00-0414		Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0380)		
26 09 23 00-0415	EA	1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....	166.46	20.61
26 09 23 00-0416	EA	1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....	189.72	20.61
26 09 23 00-0417	EA	1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....	161.53	20.61
26 09 23 00-0418		Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0362)		
26 09 23 00-0419		Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0418)		
26 09 23 00-0420	EA	120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....	203.65	20.61
26 09 23 00-0421	EA	2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	203.65	20.61
26 09 23 00-0422		Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0418)		
26 09 23 00-0423	EA	2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	189.72	20.61
26 09 23 00-0424		Occupancy Sensor Power Packs (26 09 23 00-0361)		
26 09 23 00-0425		Single Voltage, Occupancy Sensor Power Packs (26 09 23 00-0424)		
26 09 23 00-0426	EA	220 - 240 Volt AC, 20 Amp, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	69.16	18.32
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.00	
26 09 23 00-0427	EA	347 Volt AC, 15 Amp, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	63.26	18.32
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.00	
26 09 23 00-0428		Auxiliary, Occupancy Sensor Power Packs (26 09 23 00-0424)		
26 09 23 00-0429	EA	120, 277 Or 347 Volt AC, 20 Amp, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	58.39	18.32
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.00	
26 09 23 00-0430		Universal Voltage, Power Packs For Occupancy Sensors (26 09 23 00-0424)		
26 09 23 00-0431	EA	120/277 Volt AC, 20 Amp, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....	76.20	18.32
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.00	
26 09 23 00-0432		Form C, Occupancy Sensor Power Packs (26 09 23 00-0424)		
26 09 23 00-0433	EA	120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....	69.43	18.32
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.00	
26 09 23 00-0434	EA	277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P).....	69.49	18.32
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.00	
26 09 23 00-0435		Two Relay, Occupancy Sensor Power Packs (26 09 23 00-0424)		
26 09 23 00-0436	EA	120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P).....	86.55	18.32
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.00	
26 09 23 00-0437	EA	277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P).....	87.72	18.32
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.00	
26 09 23 00-0438		Occupancy Sensor Power Supplies (26 09 23 00-0424)		
26 09 23 00-0439	EA	120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-120).....	181.52	18.32
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.00	
26 09 23 00-0440	EA	277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277).....	173.11	18.32
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.00	
26 09 23 00-0441		Intelligent, Occupancy Sensor Power Packs (26 09 23 00-0424)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0442	EA	120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100)	228.00	18.32
26 09 23 00-0443		DIN Rail Mounted, Occupancy Sensor Power Packs (26 09 23 00-0424)		
26 09 23 00-0444	EA	120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100)	75.53	18.32
26 09 23 00-0445		Occupancy Sensor Accessories (26 09 23 00-0361)		
26 09 23 00-0446		Protective Cages For Occupancy Sensors (26 09 23 00-0445)		
26 09 23 00-0447	EA	Protective Cage For Occupancy Sensors (Watt Stopper WC)	42.75	6.87
26 09 23 00-0448		Mounting Brackets For Occupancy Sensors (26 09 23 00-0445)		
26 09 23 00-0449	EA	Mounting Bracket For Occupancy Sensor (Watt Stopper MB)	34.49	11.45
		Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.		
26 09 23 00-0450		Occupancy/Lighting Logger (26 09 23 00-0445)		
		Note: Logs when a space is occupied/vacant and when lighting is on/off.		
26 09 23 00-0451	EA	Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200)	315.22	38.95
26 09 23 00-0452		Remove And Reinstall Occupancy Sensors (26 09 23 00-0445)		
26 09 23 00-0453	EA	Removal And Reinstallation Of Surface Mounted Occupancy Sensor	61.86	
		Note: Includes storing and cleaning.		
26 09 23 00-0454	EA	Removal And Reinstallation Of Wall Switch Mounted Occupancy Sensor	27.49	
		Note: Includes storing and cleaning.		
26 09 23 00-0455		Digital Time Light Switches (26 09 23 00-0361)		
26 09 23 00-0456	EA	Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400)	68.20	9.16
26 09 23 00-0457		Occupancy Sensors (Sensor Switch) (26 09 23)		
		Note: Includes testing of new devices and certification.		
26 09 23 00-0458		Occupancy Sensors (Sensor Switch) (26 09 23 00-0457)		
		Note: Exclude boxes		
26 09 23 00-0459		Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0458)		
26 09 23 00-0460		Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
26 09 23 00-0461	EA	Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV)	124.43	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Low Voltage Relay Option, Add	9.65	
26 09 23 00-0462	EA	Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL)	89.06	9.16
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0463	EA	Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD)	85.17	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0464	EA	Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA)	85.17	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0465	EA	2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P)	106.75	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0466	EA	Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS)	106.75	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
26 09 23 00-0467	EA	2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P)	128.86	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
26 09 23 00-0468	EA	Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD)	106.75	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
26 09 23 00-0469		Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
		Note: Includes passive infrared and microphonics detection		
26 09 23 00-0470	EA	Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV)	159.80	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Low Voltage Relay Option, Add	9.65	
26 09 23 00-0471	EA	Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL)	124.43	9.16
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0472	EA	Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT)	121.79	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0473	EA	Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA)	121.79	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0474	EA	2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P)	142.12	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.50	
26 09 23 00-0475	EA	Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT)	142.12	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
26 09 23 00-0476	EA	2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P)	152.73	9.16
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
26 09 23 00-0477 Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch) (26 09 23 00-0459)				
26 09 23 00-0478	EA	One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX)	11.66	2.29
26 09 23 00-0479	EA	One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX)	11.66	2.29
26 09 23 00-0480	EA	Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3)	22.28	2.29
26 09 23 00-0481	EA	Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3)	22.28	2.29
26 09 23 00-0482 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0458)				
26 09 23 00-0483 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0482)				
Note: One photocell or dimming option per occupancy sensor				
26 09 23 00-0484	EA	Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9)	147.35	20.61
		For Low Temp/High Humidity Option, Add	8.04	
		For Low Voltage Relay Option, Add	9.65	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Occupancy Controlled Dimming Option, Add	16.08	
		For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0485	EA	Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9)	147.35	20.61
		For Low Temp/High Humidity Option, Add	8.04	
		For Low Voltage Relay Option, Add	9.65	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Occupancy Controlled Dimming Option, Add	16.08	
		For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0486	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9)	147.35	20.61
		For Low Temp/High Humidity Option, Add	8.04	
		For Low Voltage Relay Option, Add	9.65	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Occupancy Controlled Dimming Option, Add	16.08	
		For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0487	EA	Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9)	156.19	20.61
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Occupancy Controlled Dimming Option, Add	16.08	
		For Photocell Option With Dimming Capability, Add	24.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0488	EA	Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9)	156.19	20.61
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Occupancy Controlled Dimming Option, Add	16.08	
		For Photocell Option With Dimming Capability, Add	24.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0489	EA	Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9)	127.90	20.61
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Occupancy Controlled Dimming Option, Add	16.08	
		For Photocell Option With Dimming Capability, Add	24.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0490	EA	2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P)	191.56	20.61
		For Low Temp/High Humidity Option, Add	8.04	
		For Photocell (Inhibit Mode Only) Option, Add	9.65	
		For Photocell Option With Dual Zone On/Off, Add	24.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0491	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P).....	191.56	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Photocell Option With Dual Zone On/Off, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0492	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P)	163.27	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Photocell Option With Dual Zone On/Off, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0493	EA		Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10)	147.35	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0494	EA		Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10)	147.35	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0495	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10)	147.35	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0496	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10).....	156.19	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0497	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10).....	156.19	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Photocell Option With Dimming Capability, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0498	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10)	127.90	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Photocell Option With Dimming Capability, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0499	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P).....	191.56	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Photocell Option With Dual Zone On/Off, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0500	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P).....	191.56	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Photocell Option With Dual Zone On/Off, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0501	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P)	163.27	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Photocell Option With Dual Zone On/Off, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0502			Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch) ⁽²⁶ ^{09 23 00-0482)} Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0503	EA		Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9)	182.72	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Photocell Option With Dimming Capability, Add	24.12	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0504 EA Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9)	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Low Voltage Relay Option, Add	9.65	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Occupancy Controlled Dimming Option, Add	16.08	
For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0505 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9)	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Low Voltage Relay Option, Add	9.65	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Occupancy Controlled Dimming Option, Add	16.08	
For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0506 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9)	173.88	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Occupancy Controlled Dimming Option, Add	16.08	
For Photocell Option With Dimming Capability, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0507 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9)	173.88	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Occupancy Controlled Dimming Option, Add	16.08	
For Photocell Option With Dimming Capability, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0508 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9)	145.58	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Occupancy Controlled Dimming Option, Add	16.08	
For Photocell Option With Dimming Capability, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0509 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P)	209.25	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Photocell Option With Dual Zone On/Off, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0510 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P)	209.25	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Photocell Option With Dual Zone On/Off, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0511 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P)	180.95	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Photocell Option With Dual Zone On/Off, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0512 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10)	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Low Voltage Relay Option, Add	9.65	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Occupancy Controlled Dimming Option, Add	16.08	
For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0513 EA Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10)	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Low Voltage Relay Option, Add	9.65	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Occupancy Controlled Dimming Option, Add	16.08	
For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0514 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10)	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Low Voltage Relay Option, Add	9.65	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Occupancy Controlled Dimming Option, Add	16.08	
For Photocell Option With Dimming Capability, Add	24.12	
26 09 23 00-0515 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10)	173.88	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Photocell (Inhibit Mode Only) Option, Add	9.65	
For Occupancy Controlled Dimming Option, Add	16.08	
For Photocell Option With Dimming Capability, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0516	EA		Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	173.88	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Photocell Option With Dimming Capability, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0517	EA		Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10)	145.58	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Photocell Option With Dimming Capability, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0518	EA		2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	209.25	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Photocell Option With Dual Zone On/Off, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0519	EA		2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	209.25	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Photocell Option With Dual Zone On/Off, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0520	EA		2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	180.95	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Photocell Option With Dual Zone On/Off, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0521			Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0458)		
26 09 23 00-0522			Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0521)		
26 09 23 00-0523	EA		Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16)	147.35	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Ceiling Mount, Add	16.08	
26 09 23 00-0524	EA		Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	165.04	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Ceiling Mount, Add	16.08	
26 09 23 00-0525	EA		Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	200.41	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Ceiling Mount, Add	16.08	
26 09 23 00-0526	EA		Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	191.56	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Ceiling Mount, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0527	EA		2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....	226.94	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Ceiling Mount, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0528			Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0521)		
			Note: Includes passive infrared and microphonics detection		
26 09 23 00-0529	EA		Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16).....	182.72	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Ceiling Mount, Add	16.08	
26 09 23 00-0530	EA		Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16).....	209.25	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Ceiling Mount, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0531	EA		2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P).....	244.62	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell (Inhibit Mode Only) Option, Add	9.65	
			For Ceiling Mount, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
26 09 23 00-0532	High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0458)				
26 09 23 00-0533	Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0532)				
26 09 23 00-0534	EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6)	147.35		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Low Voltage Relay Option, Add	9.65			
	For Photocell Option, Add	16.08			
	For Occupancy Controlled Dimming Option, Add	16.08			
26 09 23 00-0535	EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6)	147.35		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Low Voltage Relay Option, Add	9.65			
	For Photocell Option, Add	16.08			
	For Occupancy Controlled Dimming Option, Add	16.08			
26 09 23 00-0536	EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6)	147.35		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Low Voltage Relay Option, Add	9.65			
	For Photocell Option, Add	16.08			
	For Occupancy Controlled Dimming Option, Add	16.08			
26 09 23 00-0537	EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6)	127.90		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Start To High, HID Option, Add	9.65			
	For Photocell Option, Add	16.08			
	For Occupancy Controlled Dimming Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			
26 09 23 00-0538	EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6)	127.90		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Start To High, HID Option, Add	9.65			
	For Photocell Option, Add	16.08			
	For Occupancy Controlled Dimming Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			
26 09 23 00-0539	EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6)	127.90		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Start To High, HID Option, Add	9.65			
	For Photocell Option, Add	16.08			
	For Occupancy Controlled Dimming Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			
26 09 23 00-0540	EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P)	163.27		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Photocell Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			
26 09 23 00-0541	EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P)	163.27		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Photocell Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			
26 09 23 00-0542	EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P)	163.27		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Photocell Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			
26 09 23 00-0543	EA 208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208)	140.28		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Photocell Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			
26 09 23 00-0544	EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208)	140.28		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Photocell Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			
26 09 23 00-0545	EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208)	140.28		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Photocell Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			
26 09 23 00-0546	EA 480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480)	140.28		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Photocell Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			
26 09 23 00-0547	EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480)	140.28		20.61	
	For Low Temp/High Humidity Option, Add	8.04			
	For Photocell Option, Add	16.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0548	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480).....	140.28	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell Option, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0549	EA		Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50).....	165.04	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
26 09 23 00-0550	EA		Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50).....	165.04	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
26 09 23 00-0551	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50).....	165.04	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Photocell Option, Add	16.08	
			For Occupancy Controlled Dimming Option, Add	16.08	
26 09 23 00-0552	EA		Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....	198.64	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Start To High, HID Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0553	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50).....	198.64	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Start To High, HID Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0554	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....	198.64	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Start To High, HID Option, Add	9.65	
			For Photocell Option, Add	16.08	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0555	EA		2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....	175.65	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0556	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P).....	175.65	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell Option, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0557	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208).....	149.12	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0558	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208).....	149.12	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell Option, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0559	EA		480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....	149.12	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0560	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	149.12	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Photocell Option, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0561	EA		Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....	165.04	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
26 09 23 00-0562	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....	165.04	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Low Voltage Relay Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
26 09 23 00-0563	EA		Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10).....	198.64	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Start To High, HID Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0564	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10).....	198.64	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Start To High, HID Option, Add	9.65	
			For Occupancy Controlled Dimming Option, Add	16.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0565	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P)	191.56	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0566	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480).....	173.88	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0567	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208).....	173.88	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0568 Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0457)					
26 09 23 00-0569	EA		Single Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20)	86.17	18.32
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.00	
26 09 23 00-0570	EA		2-Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P)	121.54	18.32
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.00	
26 09 23 00-0571	EA		Single Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20).....	68.48	18.32
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.00	
26 09 23 00-0572	EA		2-Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20)	63.18	18.32
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.00	
26 09 23 00-0573	EA		20 Amp, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20)	80.86	18.32
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.00	
26 09 23 00-0574	EA		120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH)	125.08	18.32
			For Low Temp/High Humidity Option, Add	8.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.00	
26 09 23 00-0575	EA		120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR)	125.08	18.32
			For Low Temp/High Humidity Option, Add	8.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.00	
26 09 23 00-0576	EA		120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM)	125.08	18.32
			For Low Temp/High Humidity Option, Add	8.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.00	
26 09 23 00-0577 Occupancy Sensor Accessories (Sensor Switch) (26 09 23 00-0457)					
26 09 23 00-0578 Remove And Reinstall Occupancy Sensors (26 09 23 00-0577)					
26 09 23 00-0579	EA		Removal And Reinstallation Of Wall Switch Mounted Occupancy Sensor.....	27.49	
			Note: Includes storing and cleaning.		
26 09 23 00-0580	EA		Removal And Reinstallation Of Surface Mounted Occupancy Sensor.....	61.86	
			Note: Includes storing and cleaning.		
26 09 23 00-0581 Daylighting Control (Sensor Switch) (26 09 23 00-0457)					
26 09 23 00-0582	EA		Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC)	129.67	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Dual Zone Option, Add	24.12	
26 09 23 00-0583	EA		Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC).....	129.67	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Dual Zone Option, Add	24.12	
26 09 23 00-0584	EA		Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC)	129.67	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Dual Zone Option, Add	24.12	
26 09 23 00-0585	EA		Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC)	129.67	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For 480 Volt AC Option, Add	11.25	
			For Dual Zone Option, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0586	EA		Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC)	129.67	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For 480 Volt AC Option, Add	11.25	
			For Dual Zone Option, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0587	EA		Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC)	129.67	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For 480 Volt AC Option, Add	11.25	
			For Dual Zone Option, Add	24.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0588	EA		Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC).....	129.67	20.61
			For Low Temp/High Humidity Option, Add	8.04	
			For Dual Zone Option, Add	24.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0589 EA Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC).....	129.67	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
26 09 23 00-0590 EA Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC).....	129.67	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
26 09 23 00-0591 EA Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC).....	129.67	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0592 EA Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC).....	129.67	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0593 EA Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC).....	129.67	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0594 EA Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC).....	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
26 09 23 00-0595 EA Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC).....	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
26 09 23 00-0596 EA Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC).....	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
26 09 23 00-0597 EA Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC).....	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0598 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC).....	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0599 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC).....	182.72	20.61
For Low Temp/High Humidity Option, Add	8.04	
For Dual Zone Option, Add	24.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 09 23 00-0600 Occupancy Sensors (Sensor Switch nLight®) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0601 Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0600)		
Note: Excludes boxes.		
26 09 23 00-0602 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0601)		
26 09 23 00-0603 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0602)		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0604 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....	191.03	9.16
26 09 23 00-0605 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0601)		
26 09 23 00-0606 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0605)		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0607 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	231.03	20.61
26 09 23 00-0608 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	231.03	20.61
26 09 23 00-0609 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC)	231.03	20.61
26 09 23 00-0610 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0605)		
Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0611 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	268.98	20.61
26 09 23 00-0612 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	268.98	20.61
26 09 23 00-0613 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	278.46	20.61

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0614		Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0601)		
26 09 23 00-0615		Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0614)		
		Note: Includes passive infrared and microphonics detection		
26 09 23 00-0616	EA	Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nVV PDT 16).....	268.98	20.61
26 09 23 00-0617		High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0601)		
26 09 23 00-0618		Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0617)		
26 09 23 00-0619	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6)	231.03	20.61
26 09 23 00-0620		Occupancy Sensor Power Packs (Sensor Switch nLight®) (26 09 23 00-0600)		
26 09 23 00-0621	EA	150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	84.09	18.32
26 09 23 00-0622	EA	250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	103.09	18.32
26 09 23 00-0623	EA	30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO)	135.34	18.32
26 09 23 00-0624	EA	System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16)	135.34	18.32
26 09 23 00-0625		Occupancy Sensor Accessories (Sensor Switch nLight®) (26 09 23 00-0600)		
26 09 23 00-0626	EA	RS232 AV Integrator (Sensor Switch nLight® nIO X)	278.46	20.61
26 09 23 00-0627	EA	8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT).....	373.38	20.61
26 09 23 00-0628		Daylighting Controls (Sensor Switch nLight®) (26 09 23 00-0600)		
26 09 23 00-0629	EA	Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC)	193.07	20.61
26 09 23 00-0630		Controls (Sensor Switch nLight®) (26 09 23 00-0600)		
26 09 23 00-0631	EA	On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX)	130.44	20.61
26 09 23 00-0632	EA	1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB)	183.60	20.61
26 09 23 00-0633	EA	On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	411.33	20.61
26 09 23 00-0634	EA	3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX)	411.33	20.61
26 09 23 00-0635	EA	3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	1,512.10	20.61
26 09 23 00-0636		Occupancy Sensors (Lutron) (26 09 23)		
		Note: Includes testing of new devices and certification.		
26 09 23 00-0637		Wireless Occupancy Sensors (26 09 23 00-0636)		
26 09 23 00-0638	EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH)	99.69	20.61
26 09 23 00-0639	EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH)	103.61	20.61
26 09 23 00-0640	EA	Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH).....	100.63	20.61
26 09 23 00-0641	EA	Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH).....	105.82	20.61
26 09 23 00-0642	EA	Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH).....	101.79	20.61
26 09 23 00-0643	EA	Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH).....	105.82	20.61
26 09 23 00-0644	EA	Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH).....	99.69	20.61
26 09 23 00-0645	EA	Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH).....	101.79	20.61
26 09 23 00-0646	EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V).....	100.63	20.61
26 09 23 00-0647	EA	Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH)	149.54	20.61
26 09 23 00-0648	EA	Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	158.86	20.61
26 09 23 00-0649	EA	Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH)	179.82	20.61
26 09 23 00-0650	EA	Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	189.14	20.61
26 09 23 00-0651	EA	Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH)	193.80	20.61
26 09 23 00-0652	EA	Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	203.12	20.61
26 09 23 00-0653	EA	Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH).....	120.19	20.61
26 09 23 00-0654	EA	Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH).....	126.25	20.61
26 09 23 00-0655	EA	Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH)	146.05	20.61
26 09 23 00-0656	EA	Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH).....	161.19	20.61
26 09 23 00-0657	EA	Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH).....	172.83	20.61



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0658	EA		Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH)	150.71	20.61
26 09 23 00-0659	EA		Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH).....	139.37	20.61
26 09 23 00-0660	EA		Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH)	118.33	20.61
26 09 23 00-0661	EA		Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH)	143.14	20.61
26 09 23 00-0662	EA		Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C).....	171.53	20.61
26 09 23 00-0663	EA		Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H).....	181.40	20.61
26 09 23 00-0664	EA		Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K)	181.40	20.61
26 09 23 00-0665	EA		Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W)	181.40	20.61
26 09 23 00-0666	EA		Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V).....	190.44	20.61
26 09 23 00-0667	EA		Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W).....	307.00	29.78
26 09 23 00-0668			Nodes And Modules (26 09 23 00-0636)		
26 09 23 00-0669	EA		0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C).....	155.36	20.61
26 09 23 00-0670	EA		0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J).....	155.36	20.61
26 09 23 00-0671	EA		4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C)	193.80	20.61
26 09 23 00-0672	EA		4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J)	193.80	20.61
26 09 23 00-0673	EA		120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....	246.13	22.91
26 09 23 00-0674	EA		120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH).....	246.13	22.91
26 09 23 00-0675	EA		120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH)	296.21	22.91
26 09 23 00-0676	EA		120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH)	303.20	22.91
26 09 23 00-0677	EA		120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....	371.91	22.91
26 09 23 00-0678	EA		120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH)	394.04	22.91
26 09 23 00-0679	EA		120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....	416.17	22.91
26 09 23 00-0680	EA		1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....	1,112.77	36.65
26 09 23 00-0681	EA		2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4).....	1,095.72	41.24
26 09 23 00-0682	EA		3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....	1,599.86	45.82
26 09 23 00-0683			Other Accessories (26 09 23 00-0636)		
26 09 23 00-0684	EA		Pico® Wireless Control Wallplate Adapter (Lutron® PJ)	28.83	
26 09 23 00-0685	EA		Pico® Wireless Control (Lutron® PJ)	30.72	
26 09 23 00-0686	EA		4-Scene Wireless Remote Control (Lutron® GRX-IT-WH)	85.17	
26 09 23 00-0687	EA		8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH)	165.54	
26 09 23 00-0688	EA		4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	187.08	20.61
26 09 23 00-0689	EA		seeTouch® QS Wallstation (Lutron® QSWS2)	234.28	20.61
26 09 23 00-0690	EA		seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2)	234.28	20.61
26 09 23 00-0691	EA		120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S)	378.90	22.91
26 09 23 00-0692	EA		120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S)	515.17	22.91
26 09 23 00-0693	EA		Control Interface (Lutron® QSE-CI-NWK-E).....	616.57	20.61
26 09 23 00-0694	EA		1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S)	611.92	20.61
26 09 23 00-0695	EA		2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S)	815.74	20.61
26 09 23 00-0696	MLF		5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S)	1,630.35	640.48
26 09 23 00-0697	MLF		5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	2,096.21	640.48
26 09 23 00-0698			Fixture Mounted Occupancy Sensors (Leviton) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0699	EA		120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW)	95.97	20.61
26 09 23 00-0700	EA		480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W)	85.25	20.61
26 09 23 00-0701	EA		120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW)	104.82	20.61
26 09 23 00-0702	EA		480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W)	85.25	20.61
26 09 23 00-0703			Wireless Enabled Communication Devices For Streetlights (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0704			Wireless Enabled Communication Devices For Streetlights (Roam®) (26 09 23 00-0703)		
26 09 23 00-0705			Wireless Enabled Communication Nodes For Streetlights (Roam®) (26 09 23 00-0704) Note: 2.4GHz wireless enabled communication node for wireless remote on/off, group scheduling, photocontrol and diagnostics.		
26 09 23 00-0706	EA		120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....	196.23	
26 09 23 00-0707	EA		480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....	272.15	
26 09 23 00-0708			Wireless Enabled Communication Devices For Streetlights (Roam®) (26 09 23 00-0704)		
26 09 23 00-0709	EA		Retrofit Receptacle Kit (Roam® DUR103).....	38.72	
26 09 23 00-0710	EA		Note: For adapting light fixtures for use with a NEMA locking type photocontrol. Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127)	7,693.19	50.84

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0711	EA	Consoles ^(26 09 23) 20" x 24" Type 12, Oil Tight Consolelets, Counter Mounted (Schaefer's SPCL-20C24).....	431.56	114.37
26 09 23 00-0713	EA	Emergency Lighting Controls ^(26 09 23)		
26 09 23 00-0714	EA	Emergency Lighting Control Units (Watt Stopper ELCU) ^(26 09 23 00-0713) Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.		
26 09 23 00-0715	EA	DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100)	157.86	22.91
26 09 23 00-0716	EA	1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200)	157.86	22.91
26 09 23 00-0717	EA	Emergency Shunt Relays (Lighting Control & Design GR 2001™) ^(26 09 23 00-0713) Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.		
26 09 23 00-0718	EA	1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	235.59	32.07
26 09 23 00-0719	EA	2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	318.15	36.65
26 09 23 00-0720	EA	2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual)	425.35	41.24
		Note: Controls normal and emergency lighting from single-pole wall switch.		
26 09 23 00-0721	EA	Photocells ^(26 09 23)		
26 09 23 00-0722	EA	Plug-In Photocell For Lighting Fixtures	64.99	
26 09 23 00-0723	EA	Wired Photocell For Lighting Fixtures	158.57	
26 10 Medium-Voltage Electrical Distribution ⁽²⁶⁾				
26 11 Substations ^(26 10)				
26 11 13 Primary Unit Substations ^(26 11)				
26 11 13 00-0001	EA	"Switchyard" Substation Primary Incoming Section ^(26 11 13)		
26 11 13 00-0002	EA	Outdoor Oil Circuit Breakers "Switchyard" ^(26 11 13 00-0001) Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment		
26 11 13 00-0003	EA	14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44,785.99 968.24	1,586.52
26 11 13 00-0004	EA	23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54,943.54 1,210.30	2,006.48
26 11 13 00-0005	EA	34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62,216.27 1,210.30	2,006.48
26 11 13 00-0006	EA	46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71,524.68 1,290.99	2,006.48
26 11 13 00-0007	EA	69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81,149.58 1,489.60	2,473.10
26 11 13 00-0008	EA	Accessories For Outdoor Oil Circuit Breakers ^(26 11 13 00-0001)		
26 11 13 00-0009	EA	Reclosure Relay, Adjustable, 3 Shot, #179..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,240.10 99.06	167.30
26 11 13 00-0010	EA	Overcurrent Relay, 1 Phase, #51/51N..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	398.70 66.07	121.29
26 11 13 00-0011	EA	Directional Overcurrent Relay, Three-Phase, Device No. 67..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	594.62 82.32	121.29
26 11 13 00-0012	EA	Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	470.44 66.07	121.29
26 11 13 00-0013	EA	Differential Relay Package, Complete, Device No. 87..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,759.95 247.49	409.87
26 11 13 00-0014	EA	"Switchyard", Substation Transformer Section ^(26 11 13) Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range		
26 11 13 00-0015	EA	14.4 KV Nominal Primary ^(26 11 13 00-0014)		
26 11 13 00-0016	EA	1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled..... For 50 Hz Operation, Add For Forced Air Cooling, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	25,864.79 2,716.48 2,716.48 679.12 226.37 1,131.87 2,829.67 3,395.60	1,586.52



Electrical			26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0017 EA 2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	29,590.92	1,987.81
For 50 Hz Operation, Add	3,066.79	
For Forced Air Cooling, Add	3,066.79	
For External Control Panel, Add	766.70	
For Internally Mounted Current Transformers And Linear Couplers, Add	255.57	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,277.83	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,194.57	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	3,833.49	
26 11 13 00-0018 EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	45,505.01	2,799.74
For 50 Hz Operation, Add	4,772.07	
For Forced Air Cooling, Add	4,772.07	
For External Control Panel, Add	1,193.02	
For Internally Mounted Current Transformers And Linear Couplers, Add	397.67	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,988.36	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,970.91	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,965.09	
26 11 13 00-0019 EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	65,874.56	3,354.16
For 50 Hz Operation, Add	7,036.81	
For Forced Air Cooling, Add	7,036.81	
For External Control Panel, Add	1,759.20	
For Internally Mounted Current Transformers And Linear Couplers, Add	586.40	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,932.00	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,330.01	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	8,796.01	
26 11 13 00-0020 EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	81,163.71	4,340.68
For 50 Hz Operation, Add	8,654.48	
For Forced Air Cooling, Add	8,654.48	
For External Control Panel, Add	2,163.62	
For Internally Mounted Current Transformers And Linear Couplers, Add	721.21	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,606.03	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,015.08	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,818.09	
26 11 13 00-0021 23 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	28,935.96	2,146.46
For 50 Hz Operation, Add	2,988.19	
For External Control Panel, Add	747.05	
For Internally Mounted Current Transformers And Linear Couplers, Add	249.02	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,245.08	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,112.70	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	3,735.24	
For Forced Air Cooling, Add	1,992.13	
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	33,049.80	2,146.46
For 50 Hz Operation, Add	3,381.38	
For External Control Panel, Add	845.34	
For Internally Mounted Current Transformers And Linear Couplers, Add	281.78	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,408.91	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,522.27	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,226.72	
For Forced Air Cooling, Add	2,254.25	
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	52,962.48	3,173.03
For 50 Hz Operation, Add	5,580.90	
For External Control Panel, Add	1,395.23	
For Internally Mounted Current Transformers And Linear Couplers, Add	465.08	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,325.38	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,813.44	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	6,976.13	
For Forced Air Cooling, Add	3,720.60	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	71,053.33	4,340.68
For 50 Hz Operation, Add	7,441.23	
For External Control Panel, Add	1,860.31	
For Internally Mounted Current Transformers And Linear Couplers, Add	620.10	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,100.51	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,751.28	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,301.54	
For Forced Air Cooling, Add	4,960.82	
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	87,903.98	4,340.68
For 50 Hz Operation, Add	9,463.31	
For External Control Panel, Add	2,365.83	
For Internally Mounted Current Transformers And Linear Couplers, Add	788.61	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,943.05	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,857.61	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,829.14	
For Forced Air Cooling, Add	6,308.87	
26 11 13 00-0027 34.5 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	36,326.31	2,566.43
For 50 Hz Operation, Add	3,774.56	
For External Control Panel, Add	943.64	
For Internally Mounted Current Transformers And Linear Couplers, Add	314.55	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,572.73	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,931.83	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,718.20	
For Forced Air Cooling, Add	2,516.37	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	43,875.80	4,012.96
For 50 Hz Operation, Add	4,560.92	
For External Control Panel, Add	1,140.23	
For Internally Mounted Current Transformers And Linear Couplers, Add	380.08	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,900.38	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,750.96	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,701.15	
For Forced Air Cooling, Add	3,040.61	
26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	60,642.81	4,012.96
For 50 Hz Operation, Add	6,308.90	
For External Control Panel, Add	1,577.22	
For Internally Mounted Current Transformers And Linear Couplers, Add	525.74	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,628.71	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,571.77	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,886.12	
For Forced Air Cooling, Add	4,205.93	
26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	77,793.55	4,242.03
For 50 Hz Operation, Add	8,250.06	
For External Control Panel, Add	2,062.51	
For Internally Mounted Current Transformers And Linear Couplers, Add	687.50	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,437.52	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,593.81	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,312.57	
For Forced Air Cooling, Add	5,500.04	
26 11 13 00-0032 EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	134,247.71	5,425.86
For 50 Hz Operation, Add	14,720.71	
For External Control Panel, Add	3,680.18	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,226.73	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	6,133.63	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	15,334.07	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	18,400.88	
For Forced Air Cooling, Add	9,813.80	
26 11 13 00-0033 46 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0034 EA 1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	55,627.45	2,986.38
For 50 Hz Operation, Add	5,971.12	
For External Control Panel, Add	1,492.78	
For Internally Mounted Current Transformers And Linear Couplers, Add	497.59	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,487.97	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,219.92	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,463.90	
For Forced Air Cooling, Add	3,980.75	
26 11 13 00-0035 EA 2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	62,867.86	2,986.38
For 50 Hz Operation, Add	6,769.55	
For External Control Panel, Add	1,692.39	
For Internally Mounted Current Transformers And Linear Couplers, Add	564.13	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,820.65	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,051.62	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	8,461.94	
For Forced Air Cooling, Add	4,513.03	
26 11 13 00-0036 EA 5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	87,044.40	4,012.96
For 50 Hz Operation, Add	9,477.09	
For External Control Panel, Add	2,369.27	
For Internally Mounted Current Transformers And Linear Couplers, Add	789.76	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,948.79	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,871.97	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,846.36	
For Forced Air Cooling, Add	6,318.06	
26 11 13 00-0037 EA 7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	106,473.73	5,425.86
For 50 Hz Operation, Add	11,387.83	
For External Control Panel, Add	2,846.96	
For Internally Mounted Current Transformers And Linear Couplers, Add	948.99	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,744.93	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	11,862.32	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	14,234.79	
For Forced Air Cooling, Add	7,591.89	
26 11 13 00-0038 EA 10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	151,140.10	5,425.86
For 50 Hz Operation, Add	16,747.79	
For External Control Panel, Add	4,186.95	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,395.65	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	6,978.25	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	17,445.62	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	20,934.74	
For Forced Air Cooling, Add	11,165.20	
26 11 13 00-0039 69 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0040 EA 1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	79,977.09	3,173.03
For 50 Hz Operation, Add	8,822.66	
For External Control Panel, Add	2,205.66	
For Internally Mounted Current Transformers And Linear Couplers, Add	735.22	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,676.11	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,190.27	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,028.32	
For Forced Air Cooling, Add	5,881.77	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0041 EA 2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	91,888.77 10,058.41 2,514.60 838.20 4,191.00 10,477.51 12,573.01 6,705.61	4,012.96
26 11 13 00-0042 EA 5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	126,133.58 14,167.79 3,541.95 1,180.65 5,903.25 14,758.11 17,709.74 9,445.19	4,012.96
26 11 13 00-0043 EA 7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	133,757.60 14,661.89 3,665.47 1,221.82 6,109.12 15,272.81 18,327.37 9,774.60	5,425.86
26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	175,003.91 19,611.45 4,902.86 1,634.29 8,171.44 20,428.60 24,514.31 13,074.30	5,425.86
26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV (26 11 13)		
26 11 13 00-0046 EA 1,200 Amp, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	47,820.21	774.26
26 11 13 00-0047 EA 1,200 Amp, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	52,496.87	774.26
26 11 13 00-0048 EA 1,200 Amp, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	59,776.46	961.75
26 11 13 00-0049 EA 2,000 Amp, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	55,920.31	1,156.46
26 11 13 00-0050 EA 2,000 Amp, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	62,985.40	1,156.46
26 11 13 00-0051 EA 2,000 Amp, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	71,859.19	1,343.55
26 11 13 00-0052 EA 3,000 Amp, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	74,093.15	1,535.01
26 11 13 00-0053 EA 3,000 Amp, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	82,889.59	1,535.01
26 11 13 00-0054 EA 3,000 Amp, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	86,890.22	1,723.83
26 11 16 Secondary Unit Substations (26 11)		
26 11 16 00-0001 Substation Primary Incoming Section (26 11 16)		
26 11 16 00-0002 Manual Transferring Fused Load Break Switches (26 11 16 00-0001) Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 00-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position.....	40,696.70	1,136.97
26 11 16 00-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position	47,123.24	1,136.97
26 11 16 00-0005 Automatic Transferring Fused Load Break Switches (26 11 16 00-0001) Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 00-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position Selector Switch.....	57,731.20	1,136.97
26 11 16 00-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position Selector Switch.....	61,913.63	1,136.97
26 11 16 00-0008 Accessories For Substation Fused Load Break Switches (26 11 16 00-0001)		
26 11 16 00-0009 EA Primary Lightning Arrestors Accessories, Secondary Distribution Section	5,396.39	
26 11 16 00-0010 EA Key Interlock Accessories, Secondary Distribution Section	525.27	
26 11 16 00-0011 Oil Filled Substation Transformers (26 11 16) Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 00-0012 Substation, Primary 13.8 KV Secondary 480Y/277 V Or 480 V 60 HZ (26 11 16 00-0011)		
26 11 16 00-0013 EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	10,228.54 624.54 267.66 89.22	653.27
26 11 16 00-0014 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	14,726.05 932.83 399.79 133.26	699.94

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0015 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	16,596.86	746.59
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,057.26	
For Control Power Transformer On Fans And Auxiliary, Add	453.11	
For Internal Mounted Current Transformer And Linear Coupler, Add	151.04	
26 11 16 00-0016 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	19,384.51	793.26
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,245.86	
For Control Power Transformer On Fans And Auxiliary, Add	533.94	
For Internal Mounted Current Transformer And Linear Coupler, Add	177.98	
26 11 16 00-0017 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	21,349.47	839.92
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,376.87	
For Control Power Transformer On Fans And Auxiliary, Add	590.09	
For Internal Mounted Current Transformer And Linear Coupler, Add	196.70	
26 11 16 00-0018 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	22,536.87	886.58
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,453.46	
For Control Power Transformer On Fans And Auxiliary, Add	622.91	
For Internal Mounted Current Transformer And Linear Coupler, Add	207.64	
26 11 16 00-0019 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	26,083.91	933.25
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,695.22	
For Control Power Transformer On Fans And Auxiliary, Add	726.52	
For Internal Mounted Current Transformer And Linear Coupler, Add	242.17	
26 11 16 00-0020 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	27,848.56	1,049.90
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,802.41	
For Control Power Transformer On Fans And Auxiliary, Add	772.46	
For Internal Mounted Current Transformer And Linear Coupler, Add	257.49	
26 11 16 00-0021 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	31,061.16	1,119.90
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,017.50	
For Control Power Transformer On Fans And Auxiliary, Add	864.64	
For Internal Mounted Current Transformer And Linear Coupler, Add	288.21	
26 11 16 00-0022 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	35,904.62	1,213.22
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,343.47	
For Control Power Transformer On Fans And Auxiliary, Add	1,004.35	
For Internal Mounted Current Transformer And Linear Coupler, Add	334.78	
26 11 16 00-0023 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	39,401.75	1,306.54
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,575.21	
For Control Power Transformer On Fans And Auxiliary, Add	1,103.66	
For Internal Mounted Current Transformer And Linear Coupler, Add	367.89	
26 11 16 00-0024 Substation, Primary 13.8 KV Secondary 208Y/120 V 60 HZ (26 11 16 00-0011)		
26 11 16 00-0025 EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	9,783.43	653.27
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	593.38	
For Control Power Transformer On Fans And Auxiliary, Add	254.31	
For Internal Mounted Current Transformer And Linear Coupler, Add	84.77	
26 11 16 00-0026 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	14,581.72	699.94
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	922.73	
For Control Power Transformer On Fans And Auxiliary, Add	395.46	
For Internal Mounted Current Transformer And Linear Coupler, Add	131.82	
26 11 16 00-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	16,587.01	746.59
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,056.57	
For Control Power Transformer On Fans And Auxiliary, Add	452.81	
For Internal Mounted Current Transformer And Linear Coupler, Add	150.94	
26 11 16 00-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	19,401.45	793.26
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,247.05	
For Control Power Transformer On Fans And Auxiliary, Add	534.45	
For Internal Mounted Current Transformer And Linear Coupler, Add	178.15	
26 11 16 00-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	23,079.05	839.92
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,497.94	
For Control Power Transformer On Fans And Auxiliary, Add	641.98	
For Internal Mounted Current Transformer And Linear Coupler, Add	213.99	
26 11 16 00-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	24,690.51	886.58
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,604.21	
For Control Power Transformer On Fans And Auxiliary, Add	687.52	
For Internal Mounted Current Transformer And Linear Coupler, Add	229.17	
26 11 16 00-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	27,078.37	933.25
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,764.83	
For Control Power Transformer On Fans And Auxiliary, Add	756.36	
For Internal Mounted Current Transformer And Linear Coupler, Add	252.12	
26 11 16 00-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	29,561.63	1,049.90
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,922.33	
For Control Power Transformer On Fans And Auxiliary, Add	823.85	
For Internal Mounted Current Transformer And Linear Coupler, Add	274.62	
26 11 16 00-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	33,276.41	1,119.90
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,172.56	
For Control Power Transformer On Fans And Auxiliary, Add	931.10	
For Internal Mounted Current Transformer And Linear Coupler, Add	310.37	
26 11 16 00-0034 Accessories For Oil Filled Substation Transformers (26 11 16 00-0011)		
26 11 16 00-0035 EA Sudden Pressure Relay	2,704.22	
26 11 16 00-0036 EA Throats Or Flanges (HV Or LV)	5,368.80	
26 11 16 00-0037 EA Lightning Arrestors (3 - 1 Pole)	3,535.15	
26 11 16 00-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X).....	19,618.30	
26 11 16 00-0039 EA Oil Fuse Cutout, 15 KV, 200 Amp, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout	18,354.87	



		Electrical	26
		Medium-Voltage Electrical Distribution	26 10
		Substations	26 11

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 11 16 00-0040	Reinforced Concrete Curb With 6" Slab (26 11 16 00-0011) Note: For transformer liquid containment area.			
26 11 16 00-0041	EA	112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,418.21	1,019.31
26 11 16 00-0042	EA	150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,418.21	1,019.31
26 11 16 00-0043	EA	225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,418.21	1,019.31
26 11 16 00-0044	EA	300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,418.21	1,019.31
26 11 16 00-0045	EA	500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,418.21	1,019.31
26 11 16 00-0046	EA	750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,418.21	1,019.31
26 11 16 00-0047	EA	1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,418.21	1,019.31
26 11 16 00-0048	EA	1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,983.61	1,175.28
26 11 16 00-0049	Dry Type Substation Transformer (26 11 16) Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.			
26 11 16 00-0050	Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 V (26 11 16 00-0049) Note: Primary 4.160 or 4.8 KV (delta or wye).			
26 11 16 00-0051	EA	112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	17,598.12	746.59
		For Gas Filled Transformers, Add	9,662.96	
		For Single Phase Transformers, Deduct	-402.62	
		For Dry Type Unit, Add	3,692.40	
26 11 16 00-0052	EA	150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	17,691.45	793.26
		For Gas Filled Transformers, Add	9,662.96	
		For Single Phase Transformers, Deduct	-402.62	
		For Dry Type Unit, Add	3,701.74	
26 11 16 00-0053	EA	225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	18,181.20	933.25
		For Gas Filled Transformers, Add	9,788.83	
		For Single Phase Transformers, Deduct	-407.87	
		For Dry Type Unit, Add	3,775.89	
26 11 16 00-0054	EA	300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	20,064.22	1,026.57
		For Gas Filled Transformers, Add	10,806.65	
		For Single Phase Transformers, Deduct	-450.28	
		For Dry Type Unit, Add	4,167.75	
26 11 16 00-0055	EA	500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	22,333.79	1,213.22
		For Gas Filled Transformers, Add	11,944.41	
		For Single Phase Transformers, Deduct	-497.68	
		For Dry Type Unit, Add	4,622.26	
26 11 16 00-0056	EA	750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	25,870.26	1,399.86
		For Gas Filled Transformers, Add	13,842.31	
		For Single Phase Transformers, Deduct	-576.76	
		For Dry Type Unit, Add	5,355.49	
26 11 16 00-0057	EA	1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	30,083.94	1,679.84
		For Gas Filled Transformers, Add	16,034.56	
		For Single Phase Transformers, Deduct	-668.11	
		For Dry Type Unit, Add	6,215.31	
26 11 16 00-0058	EA	1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	35,455.56	1,866.49
		For Gas Filled Transformers, Add	19,033.55	
		For Single Phase Transformers, Deduct	-793.06	
		For Dry Type Unit, Add	7,352.27	
26 11 16 00-0059	EA	2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	45,544.67	1,959.81
		For Gas Filled Transformers, Add	24,975.03	
		For Single Phase Transformers, Deduct	-1,040.63	
		For Dry Type Unit, Add	9,549.47	
26 11 16 00-0060	Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 V (26 11 16 00-0049) Note: Primary 4.16 or 4.8 KV (delta or wye).			
26 11 16 00-0061	EA	112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	17,026.60	746.59
		For Gas Filled Transformers, Add	9,320.05	
		For Single Phase Transformers, Deduct	-388.34	
		For Dry Type Unit, Add	3,566.67	
26 11 16 00-0062	EA	150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	17,691.45	793.26
		For Gas Filled Transformers, Add	9,662.96	
		For Single Phase Transformers, Deduct	-402.62	
		For Dry Type Unit, Add	3,701.74	
26 11 16 00-0063	EA	225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	18,181.20	933.25
		For Gas Filled Transformers, Add	9,788.83	
		For Single Phase Transformers, Deduct	-407.87	
		For Dry Type Unit, Add	3,775.89	
26 11 16 00-0064	EA	300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	20,064.22	1,026.57
		For Gas Filled Transformers, Add	10,806.65	
		For Single Phase Transformers, Deduct	-450.28	
		For Dry Type Unit, Add	4,167.75	
26 11 16 00-0065	EA	500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	22,333.79	1,213.22
		For Gas Filled Transformers, Add	11,944.41	
		For Single Phase Transformers, Deduct	-497.68	
		For Dry Type Unit, Add	4,622.26	
26 11 16 00-0066	EA	750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	25,870.26	1,399.86
		For Gas Filled Transformers, Add	13,842.31	
		For Single Phase Transformers, Deduct	-576.76	
		For Dry Type Unit, Add	5,355.49	
26 11 16 00-0067	EA	1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	30,083.94	1,679.84
		For Gas Filled Transformers, Add	16,034.56	
		For Single Phase Transformers, Deduct	-668.11	
		For Dry Type Unit, Add	6,215.31	

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0068	EA	1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	35,455.56	1,866.49
		For Gas Filled Transformers, Add	19,033.55	
		For Single Phase Transformers, Deduct	-793.06	
		For Dry Type Unit, Add	7,352.27	
26 11 16 00-0069	EA	2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	45,544.67	1,959.81
		For Gas Filled Transformers, Add	24,975.03	
		For Single Phase Transformers, Deduct	-1,040.63	
		For Dry Type Unit, Add	9,549.47	
26 11 16 00-0070	EA	2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	49,903.75	2,053.13
		For Gas Filled Transformers, Add	27,478.48	
		For Single Phase Transformers, Deduct	-1,144.94	
		For Dry Type Unit, Add	10,486.07	
26 11 16 00-0071	EA	3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	55,569.37	2,146.46
		For Gas Filled Transformers, Add	30,765.87	
		For Single Phase Transformers, Deduct	-1,281.91	
		For Dry Type Unit, Add	11,710.11	
26 11 16 00-0072	EA	3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	63,843.17	2,239.79
		For Gas Filled Transformers, Add	35,618.16	
		For Single Phase Transformers, Deduct	-1,484.09	
		For Dry Type Unit, Add	13,507.95	
26 11 16 00-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 V Or 240 V (26 11 16 00-0049)				
26 11 16 00-0074	EA	112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	18,967.45	839.92
		For Gas Filled Transformers, Add	10,372.57	
		For Single Phase Transformers, Deduct	-432.19	
		For Dry Type Unit, Add	3,971.26	
26 11 16 00-0075	EA	150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	19,628.99	886.58
		For Gas Filled Transformers, Add	10,713.49	
		For Single Phase Transformers, Deduct	-446.40	
		For Dry Type Unit, Add	4,105.60	
26 11 16 00-0076	EA	225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	21,073.47	1,026.57
		For Gas Filled Transformers, Add	11,412.20	
		For Single Phase Transformers, Deduct	-475.51	
		For Dry Type Unit, Add	4,389.79	
26 11 16 00-0077	EA	300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	22,284.23	1,119.90
		For Gas Filled Transformers, Add	12,026.66	
		For Single Phase Transformers, Deduct	-501.11	
		For Dry Type Unit, Add	4,633.76	
26 11 16 00-0078	EA	500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	25,439.13	1,306.54
		For Gas Filled Transformers, Add	13,695.63	
		For Single Phase Transformers, Deduct	-570.65	
		For Dry Type Unit, Add	5,283.04	
26 11 16 00-0079	EA	750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	28,235.61	1,493.19
		For Gas Filled Transformers, Add	15,149.54	
		For Single Phase Transformers, Deduct	-631.23	
		For Dry Type Unit, Add	5,853.47	
26 11 16 00-0080	EA	1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	32,999.36	1,773.17
		For Gas Filled Transformers, Add	17,671.82	
		For Single Phase Transformers, Deduct	-736.33	
		For Dry Type Unit, Add	6,834.30	
26 11 16 00-0081	EA	1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	39,806.36	1,959.81
		For Gas Filled Transformers, Add	21,532.04	
		For Single Phase Transformers, Deduct	-897.17	
		For Dry Type Unit, Add	8,287.04	
26 11 16 00-0082	EA	2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	47,809.28	2,053.13
		For Gas Filled Transformers, Add	26,221.80	
		For Single Phase Transformers, Deduct	-1,092.58	
		For Dry Type Unit, Add	10,025.29	
26 11 16 00-0083 Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 V Or 480 V (26 11 16 00-0049)				
26 11 16 00-0084	EA	112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	18,967.45	839.92
		For Gas Filled Transformers, Add	10,372.57	
		For Single Phase Transformers, Deduct	-432.19	
		For Dry Type Unit, Add	3,971.26	
26 11 16 00-0085	EA	150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	19,628.99	886.58
		For Gas Filled Transformers, Add	10,713.49	
		For Single Phase Transformers, Deduct	-446.40	
		For Dry Type Unit, Add	4,105.60	
26 11 16 00-0086	EA	225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	21,073.47	1,026.57
		For Gas Filled Transformers, Add	11,412.20	
		For Single Phase Transformers, Deduct	-475.51	
		For Dry Type Unit, Add	4,389.79	
26 11 16 00-0087	EA	300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	22,284.23	1,119.90
		For Gas Filled Transformers, Add	12,026.66	
		For Single Phase Transformers, Deduct	-501.11	
		For Dry Type Unit, Add	4,633.76	
26 11 16 00-0088	EA	500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	25,439.13	1,306.54
		For Gas Filled Transformers, Add	13,695.63	
		For Single Phase Transformers, Deduct	-570.65	
		For Dry Type Unit, Add	5,283.04	



Electrical			26
Medium-Voltage Electrical Distribution			26 10
Substations			26 11

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 11 16 00-0089	EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	24,932.03		1,493.19	
	For Gas Filled Transformers, Add	13,167.39			
	For Single Phase Transformers, Deduct	-548.64			
	For Dry Type Unit, Add	5,126.68			
26 11 16 00-0090	EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	26,212.53		1,773.17	
	For Gas Filled Transformers, Add	13,599.72			
	For Single Phase Transformers, Deduct	-566.66			
	For Dry Type Unit, Add	5,341.20			
26 11 16 00-0091	EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	32,030.60		1,959.81	
	For Gas Filled Transformers, Add	16,866.59			
	For Single Phase Transformers, Deduct	-702.77			
	For Dry Type Unit, Add	6,576.38			
26 11 16 00-0092	EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	37,730.87		2,053.13	
	For Gas Filled Transformers, Add	20,174.75			
	For Single Phase Transformers, Deduct	-840.61			
	For Dry Type Unit, Add	7,808.04			
26 11 16 00-0093	EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	42,039.33		2,146.46	
	For Gas Filled Transformers, Add	22,647.85			
	For Single Phase Transformers, Deduct	-943.66			
	For Dry Type Unit, Add	8,733.50			
26 11 16 00-0094	EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	49,093.13		2,239.79	
	For Gas Filled Transformers, Add	26,768.14			
	For Single Phase Transformers, Deduct	-1,115.34			
	For Dry Type Unit, Add	10,262.94			
26 11 16 00-0095	EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	59,817.59		2,333.11	
	For Gas Filled Transformers, Add	33,090.82			
	For Single Phase Transformers, Deduct	-1,378.78			
	For Dry Type Unit, Add	12,599.92			
26 11 16 00-0096	Substation Secondary Distribution Section (26 11 16)				
	Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.				
26 11 16 00-0097	Switchgear Compartment Complete With Air Circuit Breaker (26 11 16 00-0096)				
	Note: With solid state long - time and instantaneous trips.				
26 11 16 00-0098	EA 800 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	11,965.19		807.62	
26 11 16 00-0099	EA 1,600 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	18,938.54		1,221.04	
26 11 16 00-0100	EA 2,000 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	25,644.90		1,499.86	
26 11 16 00-0101	EA 3,200 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	42,512.46		1,740.23	
26 11 16 00-0102	EA 4,000 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	54,617.81		1,980.59	
26 11 16 00-0103	Switchgear Compartment Without Circuit Breaker (26 11 16 00-0096)				
26 11 16 00-0104	EA 800 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	5,298.22		245.17	
26 11 16 00-0105	EA 1,600 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,122.10		245.17	
26 11 16 00-0106	EA 2,000 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,009.28		360.54	
26 11 16 00-0107	EA 3,200 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	11,434.13		360.54	
26 11 16 00-0108	EA 4,000 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	19,077.64		528.80	
26 11 16 00-0109	Switchgear Compartment, Blank, Use As Filler Or Metering (26 11 16 00-0096)				
	Note: No provisions for future breaker.				
26 11 16 00-0110	EA 600 Thru 2,000 Amp, Blank Section Filler, Secondary Distribution Section.....	2,393.75		274.02	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.68			
26 11 16 00-0111	EA 3,000 Amp, Blank Section Filler, Secondary Distribution Section.....	2,981.76		274.02	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	183.93			
26 11 16 00-0112	EA 4,000 Amp, Blank Section Filler, Secondary Distribution Section.....	3,918.97		423.04	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	264.40			
26 11 16 00-0113	Accessories For Substation Secondary Distribution (26 11 16 00-0096)				
26 11 16 00-0114	EA Short Time Delay Accessories, Secondary Distribution Section.....	1,260.80			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19			
26 11 16 00-0115	EA Key Interlock Accessories, Secondary Distribution Section.....	998.16			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19			
26 11 16 00-0116	EA Ammeter And Switch Complete Accessories, Secondary Distribution Section.....	2,995.21		83.64	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19			
26 11 16 00-0117	EA Voltmeter And Switch Complete Accessories, Secondary Distribution Section.....	2,995.21		83.64	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19			
26 11 16 00-0118	EA Wattmeter - Complete Accessories, Secondary Distribution Section.....	3,936.74		83.64	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19			
26 11 16 00-0119	EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section.....	5,076.50		83.64	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19			
26 11 16 00-0120	EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section.....	2,253.74		95.34	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.19			
26 11 16 00-0121	EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section.....	7,901.64		1,411.97	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	847.19			
26 11 16 00-0122	EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800	1,399.55		83.64	
26 11 16 00-0123	EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section	1,630.26		83.64	
26 11 16 00-0124	EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section.....	868.25		41.83	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.09			
26 11 16 00-0125	EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section.....	6,356.65		83.64	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19			
26 11 16 00-0126	EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section	828.61		41.83	

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**26 12 Medium-Voltage Transformers** (26 10)**26 12 13 Liquid-Filled, Medium-Voltage Transformers** (26 12)**26 12 13 00-0001 Removal And Relocation Of Transformers** (26 12 13)

26 12 13 00-0002	EA	Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer.....	957.69	
26 12 13 00-0003	EA	Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers	1,762.41	

26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers (26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent

		Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA (26 12 13 00-0004)		
26 12 13 00-0006	EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	1,503.39	384.08
26 12 13 00-0007	EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	1,833.38	480.10
26 12 13 00-0008	EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	2,158.12	576.12
26 12 13 00-0009	EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	2,756.28	720.14
26 12 13 00-0010	EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	3,285.16	864.18
26 12 13 00-0011	EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	4,263.91	1,008.21
26 12 13 00-0012	EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	5,062.61	1,200.25

26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent

		Taps FCAN And FCBN. Rated To 5 KVA (26 12 13 00-0004)		
26 12 13 00-0014	EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	1,503.39	384.08
26 12 13 00-0015	EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	1,853.57	480.10
26 12 13 00-0016	EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,158.12	576.12
26 12 13 00-0017	EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,756.28	720.14
26 12 13 00-0018	EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	3,285.16	864.18
26 12 13 00-0019	EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	4,056.39	1,008.21
26 12 13 00-0020	EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	4,957.23	1,200.25

26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps

		FCBN And FCAN (26 12 13 00-0004)		
26 12 13 00-0022	EA	10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	1,479.83	384.08
26 12 13 00-0023	EA	15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	1,769.45	480.10
26 12 13 00-0024	EA	25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,094.89	576.12
26 12 13 00-0025	EA	37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,741.69	720.14
26 12 13 00-0026	EA	50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	3,223.55	864.18
26 12 13 00-0027	EA	75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	4,095.30	1,008.21
26 12 13 00-0028	EA	100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	4,966.95	1,200.25

26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent

		Taps FCBN And FCAN (26 12 13 00-0004)		
26 12 13 00-0030	EA	10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	1,589.19	384.08
26 12 13 00-0031	EA	15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	1,882.17	480.10
26 12 13 00-0032	EA	25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	2,390.20	576.12
26 12 13 00-0033	EA	37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	3,004.58	720.14
26 12 13 00-0034	EA	50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	3,518.25	864.18
26 12 13 00-0035	EA	75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	4,531.14	1,008.21
26 12 13 00-0036	EA	100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	5,670.55	1,200.25

26 12 13 00-0037 Transformer Platforms (26 12 13 00-0004)

26 12 13 00-0038	EA	Transformer Platforms, 75 - 167 KVA	3,201.00	648.61

26 12 13 00-0039 Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops

		FCBN Auto FCAN (26 12 13 00-0004)		
26 12 13 00-0040	EA	10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	2,457.07	768.16
26 12 13 00-0041	EA	15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	2,741.27	864.18
26 12 13 00-0042	EA	25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	3,159.28	960.19
26 12 13 00-0043	EA	37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	4,251.69	1,344.27
26 12 13 00-0044	EA	50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	4,861.43	1,536.31
26 12 13 00-0045	EA	75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	6,358.34	1,920.39
26 12 13 00-0046	EA	100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	7,502.66	2,112.43
26 12 13 00-0047	EA	167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	9,778.99	2,688.54
26 12 13 00-0048	EA	250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	11,705.23	3,072.62
26 12 13 00-0049	EA	333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	14,243.11	3,840.79
26 12 13 00-0050	EA	500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	18,121.25	4,800.98

26 12 13 00-0051 Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN,

Class A, 95 KV BIL (26 12 13 00-0004)



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Transformers		26 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0052 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	1,503.39	470.31
26 12 13 00-0053 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	1,833.38	587.83
26 12 13 00-0054 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,157.73	704.69
26 12 13 00-0055 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,757.21	883.09
26 12 13 00-0056 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,284.28	1,057.85
26 12 13 00-0057 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	4,262.70	1,232.03
26 12 13 00-0058 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	5,062.61	1,469.68
26 12 13 00-0059 Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN (26 12 13 00-0004)		
26 12 13 00-0060 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,503.39	470.31
26 12 13 00-0061 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,853.57	587.83
26 12 13 00-0062 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,157.73	704.69
26 12 13 00-0063 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,757.21	883.09
26 12 13 00-0064 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,284.28	1,057.85
26 12 13 00-0065 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,055.18	1,232.03
26 12 13 00-0066 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,957.23	1,469.68
26 12 13 00-0067 Primary 7.2 To 14.4 KV Ground Y (26 12 13 00-0004)		
26 12 13 00-0068 Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN (26 12 13 00-0067)		
26 12 13 00-0069 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,326.43	384.08
26 12 13 00-0070 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,616.34	480.10
26 12 13 00-0071 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,900.37	576.12
26 12 13 00-0072 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,436.53	720.14
26 12 13 00-0073 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,989.69	864.18
26 12 13 00-0074 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,153.67	1,008.21
26 12 13 00-0075 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,847.68	1,200.25
26 12 13 00-0076 Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN (26 12 13 00-0067)		
26 12 13 00-0077 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,272.89	384.08
26 12 13 00-0078 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,549.05	480.10
26 12 13 00-0079 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,869.78	576.12
26 12 13 00-0080 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,375.35	720.14
26 12 13 00-0081 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,905.57	864.18
26 12 13 00-0082 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,847.78	1,008.21
26 12 13 00-0083 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,541.78	1,200.25
26 12 13 00-0084 3 Phase Oil Filled Distribution Transformers (26 12 13)		
26 12 13 00-0085 Primary 4.16/4.8 KV Ground Y Secondary 120/240 V (26 12 13 00-0084)		
Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.		
26 12 13 00-0086 EA 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	6,920.05	2,112.43
26 12 13 00-0087 EA 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	8,841.18	2,688.54
26 12 13 00-0088 EA 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	10,407.13	2,880.58
26 12 13 00-0089 EA 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	13,296.29	3,600.74
26 12 13 00-0090 EA 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	18,850.04	4,800.98
26 12 13 00-0091 EA 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	25,385.90	5,521.13
26 12 16 Dry-Type, Medium-Voltage Transformers (26 12)		
26 12 16 00-0001 Removal and Relocation of Transformers (26 12 16)		
26 12 16 00-0002 EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer	387.30	
26 12 16 00-0003 EA Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer	1,721.32	
26 12 19 Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers (26 12)		
26 12 19 00-0001 Single Phase Pad Mounted Distribution Transformers (26 12 19)		
Note: Designed for residential and multi-family buildings. UL listed.		
26 12 19 00-0002 Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled (26 12 19 00-0001)		
Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.		
26 12 19 00-0003 Primary, 4.16/4.8 KV Ground Y Or Delta (26 12 19 00-0002)		
Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.		
26 12 19 00-0004 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	2,755.33	466.62
26 12 19 00-0005 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,088.12	466.62
26 12 19 00-0006 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,677.68	639.27
26 12 19 00-0007 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,448.52	639.27

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0008	EA	100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,026.42	839.92
26 12 19 00-0009	EA	167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,488.26	839.92
26 12 19 00-0010		Factory Modifications Material Cost Only (26 12 19 00-0002)		
26 12 19 00-0011	EA	Loadbreaker Current Limiting Fuse Factory Modifications	455.94	
26 12 19 00-0012	EA	Loadbreaker Oil Switch, 2 Position Factory Modifications	479.06	
26 12 19 00-0013	EA	Loadbreaker Inserts, Factory Modifications	526.97	
26 12 19 00-0014		Distribution - Single Phase Multiple Building Transformer (26 12 19 00-0001) Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.		
26 12 19 00-0015		Primary, 4.16/4.8 KVA Ground Y Or Delta (26 12 19 00-0014) Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0016	EA	25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,319.20	466.62
26 12 19 00-0017	EA	37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,807.65	466.62
26 12 19 00-0018	EA	50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,165.00	639.27
26 12 19 00-0019	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,081.21	639.27
26 12 19 00-0020	EA	100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,683.90	839.92
26 12 19 00-0021	EA	167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,878.11	839.92
26 12 19 00-0022	EA	250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	10,581.18	1,166.55
26 12 19 00-0023		Factory Modifications Material Cost Only (26 12 19 00-0014)		
26 12 19 00-0024	EA	Loadbreaker Current Limiting Fuse Factory Modifications	607.91	
26 12 19 00-0025	EA	Lightning Arrestors, Factory Modifications	154.03	
26 12 19 00-0026	EA	Loadbreaker Oil Switch, 2 Position Factory Modifications	479.06	
26 12 19 00-0027	EA	Loop Feed Air Switch, Factory Modifications	779.71	
26 12 19 00-0028	EA	Loadbreaker Inserts (Two), Factory Modifications	208.14	
26 12 19 00-0029	EA	Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications	180.06	
26 12 19 00-0030		Primary, 12.47 KV Ground Y Or Delta (26 12 19 00-0014) Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0031	EA	25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,543.25	466.62
26 12 19 00-0032	EA	37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,882.15	466.62
26 12 19 00-0033	EA	50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,135.70	639.27
26 12 19 00-0034	EA	75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,901.85	639.27
26 12 19 00-0035	EA	100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,055.71	839.92
26 12 19 00-0036	EA	167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	7,533.38	840.02
26 12 19 00-0037	EA	250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	9,535.26	1,166.55
26 12 19 00-0038		Oil Filled Distribution Transformer Single Phase Cluster Mounted (26 12 19 00-0001) Note: Conventional type.		
26 12 19 00-0039		13.8/14.4 KV Ground Y Or Delta Primary 120/240V (26 12 19 00-0038) Note: 2.5 Taps FCBN and FCAN.		
26 12 19 00-0040	EA	10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,428.02	324.85
26 12 19 00-0041	EA	37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,083.92	456.81
26 12 19 00-0042	EA	50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,657.94	730.90
26 12 19 00-0043	EA	100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	7,914.97	730.90
26 12 19 00-0044	EA	167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	10,779.58	1,197.88
26 12 19 00-0045	EA	250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	14,115.22	1,197.88
26 12 19 00-0046		Oil Filled Distribution Transformer Single Phase (26 12 19 00-0001)		
26 12 19 00-0047		7.2 KV Primary, 120/240 V Secondary (26 12 19 00-0046)		
26 12 19 00-0048	EA	10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,368.37	345.15
26 12 19 00-0049	EA	15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,592.40	345.15
26 12 19 00-0050	EA	25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,026.01	487.27
26 12 19 00-0051	EA	37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,956.12	487.27



		Electrical	26
		Medium-Voltage Electrical Distribution	26 10
		Medium-Voltage Transformers	26 12

26

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0052	EA 50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,563.57	659.84
26 12 19 00-0053	EA 100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	7,762.62	1,015.15
26 12 19 00-0054	EA 167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	10,660.27	1,015.15
26 12 19 00-0055	EA 250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	13,931.06	1,268.94
26 12 19 00-0056 7.2 KV Primary, 240/480 V Secondary (26 12 19 00-0046)			
26 12 19 00-0057	EA 10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,368.37	345.15
26 12 19 00-0058	EA 15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,592.46	345.15
26 12 19 00-0059	EA 25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,026.01	487.27
26 12 19 00-0060	EA 37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,956.12	487.27
26 12 19 00-0061	EA 50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,563.57	659.84
26 12 19 00-0062	EA 75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	6,873.32	893.34
26 12 19 00-0063	EA 100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	7,762.62	893.34
26 12 19 00-0064	EA 167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	10,660.27	1,126.82
26 12 19 00-0065	EA 250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	13,931.06	1,268.94
26 12 19 00-0066 2.4 KV Primary, 277 V Secondary (26 12 19 00-0046)			
26 12 19 00-0067	EA 10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,555.57	345.15
26 12 19 00-0068	EA 15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,796.41	345.15
26 12 19 00-0069	EA 25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,267.89	487.27
26 12 19 00-0070	EA 37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,265.11	487.27
26 12 19 00-0071	EA 50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,917.36	659.84
26 12 19 00-0072	EA 75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	7,290.94	893.34
26 12 19 00-0073	EA 100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	8,416.80	893.34
26 12 19 00-0074	EA 167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	11,578.47	1,126.82
26 12 19 00-0075	EA 250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	15,175.79	1,268.94
26 12 19 00-0076 2.4 KV Primary, 120/240 V Secondary (26 12 19 00-0046)			
26 12 19 00-0077	EA 10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,368.37	345.15
26 12 19 00-0078	EA 15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,592.40	345.15
26 12 19 00-0079	EA 25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,026.01	663.00
26 12 19 00-0080	EA 37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,956.12	893.34
26 12 19 00-0081	EA 50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,563.57	659.84
26 12 19 00-0082	EA 75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	6,732.55	893.34
26 12 19 00-0083	EA 100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	7,761.39	893.34
26 12 19 00-0084 2.4 KV Primary, 240/480 V Secondary (26 12 19 00-0046)			
26 12 19 00-0085	EA 10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,368.37	345.15
26 12 19 00-0086	EA 15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,592.40	345.15
26 12 19 00-0087	EA 25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,026.01	487.27
26 12 19 00-0088	EA 37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,956.12	487.27
26 12 19 00-0089	EA 50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,563.57	659.84
26 12 19 00-0090	EA 75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	6,732.55	893.34
26 12 19 00-0091	EA 100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	7,761.39	893.34
26 12 19 00-0092 2.4 KV x 7.2 KV Primary, 120/240 V Secondary (26 12 19 00-0046)			
26 12 19 00-0093	EA 10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,077.27	355.30
26 12 19 00-0094	EA 15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,263.54	395.91
26 12 19 00-0095	EA 25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,708.78	436.51
26 12 19 00-0096	EA 37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,507.95	609.09
26 12 19 00-0097	EA 50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,943.45	710.60
26 12 19 00-0098	EA 75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	5,278.00	832.42
26 12 19 00-0099	EA 100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	6,289.95	954.24
26 12 19 00-0100	EA 167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	9,521.35	1,218.18
26 12 19 00-0101	EA 250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	12,781.12	1,370.45
26 13 Medium-Voltage Switchgear (26 10)			
26 13 16 Medium-Voltage Fusible Interrupter Switchgear (26 13)			
26 13 16 00-0001 "Switchyard", Substation Secondary Distribution Section (26 13 16)			
Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.			
26 13 16 00-0002 4.16 Or 4.8 KV Switchgear Sections (26 13 16 00-0001)			
Note: Includes air circuit breaker.			
26 13 16 00-0003	EA 1,200 Amp, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	10,503.48	1,055.76
For Weatherproofing, Add		2,162.72	
26 13 16 00-0004	EA 1,200 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	11,016.17	1,055.76
For Weatherproofing, Add		2,275.51	
26 13 16 00-0005	EA 1,200 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	14,980.69	1,345.07
For Weatherproofing, Add		3,117.66	
26 13 16 00-0006	EA 2,000 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	20,366.89	1,345.07
For Weatherproofing, Add		4,279.98	

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 13 Medium-Voltage Switchgear**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0007	EA	2,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	29,125.16 6,179.78	1,624.24
26 13 16 00-0008	EA	3,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	26,614.84 5,616.00	1,624.24
26 13 16 00-0009		7.2 KV Switchgear Sections (26 13 16 00-0001) Note: Includes air circuit breaker.		
26 13 16 00-0010	EA	1,200 Amp, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,608.87 3,270.59	1,218.18
26 13 16 00-0011	EA	2,000 Amp, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	19,181.71 4,006.58	1,522.72
26 13 16 00-0012	EA	3,000 Amp, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	26,913.69 5,671.68	1,827.27
26 13 16 00-0013		13.8 KV Switchgear Sections (26 13 16 00-0001) Note: Includes air circuit breaker.		
26 13 16 00-0014	EA	1,200 Amp, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,074.87 3,139.70	1,218.18
26 13 16 00-0015	EA	1,200 Amp, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	20,711.74 4,350.61	1,218.18
26 13 16 00-0016	EA	1,200 Amp, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	30,186.56 6,401.78	1,624.24
26 13 16 00-0017	EA	2,000 Amp, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	18,968.04 3,947.38	1,624.24
26 13 16 00-0018	EA	2,000 Amp, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	27,462.15 5,786.98	2,030.29
26 13 16 00-0019	EA	2,000 Amp, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	38,350.39 8,151.70	2,030.29
26 13 16 00-0020	EA	3,000 Amp, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	26,460.64 5,558.15	2,030.29
26 13 16 00-0021	EA	3,000 Amp, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	36,609.66 7,761.70	2,030.29
26 13 16 00-0022	EA	3,000 Amp, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	47,387.02 10,105.05	2,030.29
26 13 16 00-0023		4.16 Or 4.8 KV Switchgear Section (26 13 16 00-0001) Note: Excludes air circuit breaker element.		
26 13 16 00-0024	EA	1,200 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	4,745.51 950.76	664.92
26 13 16 00-0025	EA	1,200 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	6,135.44 1,256.54	664.92
26 13 16 00-0026	EA	2,000 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	6,680.53 1,346.35	883.18
26 13 16 00-0027	EA	2,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,278.28 1,668.40	1,091.28
26 13 16 00-0028	EA	3,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,091.39 2,287.29	1,091.28
26 13 16 00-0029		7.2 KV Switchgear Section (26 13 16 00-0001) Note: Excludes air circuit breaker element.		
26 13 16 00-0030	EA	1,200 Amp, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	5,989.92 1,211.56	1,015.15
26 13 16 00-0031	EA	2,000 Amp, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	7,834.00 1,587.35	1,015.15
26 13 16 00-0032	EA	3,000 Amp, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,901.01 2,452.58	1,015.15
26 13 16 00-0033		13.8 KV Switchgear Section (26 13 16 00-0001) Note: Excludes air circuit breaker element.		
26 13 16 00-0034	EA	1,200 Amp, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	6,190.19 1,241.60	862.88
26 13 16 00-0035	EA	1,200 Amp, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	6,592.45 1,330.10	862.88
26 13 16 00-0036	EA	1,200 Amp, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	9,419.11 1,922.29	1,065.91
26 13 16 00-0037	EA	2,000 Amp, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,452.77 1,680.16	1,279.09
26 13 16 00-0038	EA	2,000 Amp, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	10,348.39 2,097.20	1,279.09
26 13 16 00-0039	EA	2,000 Amp, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,902.81 2,409.00	1,492.27
26 13 16 00-0040	EA	3,000 Amp, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,202.90 2,225.38	1,705.45
26 13 16 00-0041	EA	3,000 Amp, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	12,501.84 2,511.14	1,705.45
26 13 16 00-0042	EA	3,000 Amp, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,371.24 3,112.50	1,908.48



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Switchgear		26 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections (26 13 16 00-0001)		
26 13 16 00-0044 EA 1,200 Amp, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,051.60 385.99	643.30
26 13 16 00-0045 EA 2,000 Amp, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,798.76 428.33	713.85
26 13 16 00-0046 EA 3,000 Amp, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,945.49 515.30	858.82
26 13 16 00-0047 EA 3-Phase Pothead Termination Accessories, Secondary Distribution Section	3,260.84	1,291.57
26 13 16 00-0048 EA 5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	3,672.16	83.64
26 13 16 00-0049 EA 5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	4,899.95	83.64
26 13 16 00-0050 EA 5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	8,960.66	83.64
26 13 16 00-0051 EA 15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	7,045.21	83.64
26 13 16 00-0052 EA 15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	7,689.72	83.64
26 13 16 00-0053 EA 15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	10,462.00	83.64
26 13 16 00-0054 EA 6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	1,671.55	83.64
26 13 16 00-0055 EA 9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	1,887.36	83.64
26 13 16 00-0056 EA 15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	2,859.09	83.64
26 13 16 00-0057 EA Overcurrent Phase Protection, Time And Instantaneous Device 67	1,835.45	83.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.19	
26 13 16 00-0058 EA AC Ammeter With Switch.....	727.24	83.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.19	
26 13 16 00-0059 EA AC Voltmeter With Switch And Potential Transformer	727.24	83.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.19	
26 13 16 00-0060 EA Indicating Wattmeter.....	1,067.87	83.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.19	
26 13 16 00-0061 EA Indicating Varmeter.....	1,256.85	83.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.19	
26 13 16 00-0062 EA Indicating Watt-hour Meter, 2 Element	794.90	83.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.19	
26 13 16 00-0063 EA Ground Protection, Time Or Instantaneous Device 67N	3,433.56	83.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.19	
26 13 16 00-0064 EA Differential Generator Protection Single Phase NEMA Device 87	3,472.69	83.64
26 13 16 00-0065 EA Current Transformers 5 And 15 KV Single Secondary	498.01	83.64
26 13 16 00-0066 EA Potential Transformers 5 KV And 15 KV With Primary Fuses.....	2,322.48	83.64
26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13)		
26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV (26 13 19)		
26 13 19 00-0002 EA 1,200 Amp, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	37,515.07	1,268.94
26 13 19 00-0003 EA 1,200 Amp, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	41,443.54	1,603.93
26 13 19 00-0004 EA 1,200 Amp, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	47,059.48	1,603.93
26 13 19 00-0005 EA 2,000 Amp, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	42,964.65	1,268.94
26 13 19 00-0006 EA 2,000 Amp, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	48,301.65	1,268.94
26 13 19 00-0007 EA 2,000 Amp, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	55,059.70	1,492.27
26 13 19 00-0008 EA 3,000 Amp, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	56,842.75	1,705.45
26 13 19 00-0009 EA 3,000 Amp, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	62,206.86	1,705.45
26 13 19 00-0010 EA 3,000 Amp, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	67,981.32	1,918.63
26 18 Medium-Voltage Circuit Protection Devices (26 10)		
26 18 16 Medium-Voltage Fuses (26 18)		
26 18 16 00-0001 Sectionalizing Switch (26 18 16)		
26 18 16 00-0002 Pad Mounted Metal Enclosed Oil Filled Switching Units (26 18 16 00-0001) Note: 15 KV - 25 KV.		
26 18 16 00-0003 Sectionalizing Tapping And Fusing Underground Feeders (26 18 16 00-0002) Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 16 00-0004 EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	19,881.71	699.94
26 18 16 00-0005 EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	22,319.02	699.94
26 20 Low-Voltage Electrical Distribution (26)		
26 21 Low-Voltage Electrical Service Entrance (26 20) See CSI section 26 05 13 00-0000 for wire and cables.		
26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)		
26 21 13 00-0001 Service Drop Cable And Weatherheads (26 21 13)		
26 21 13 00-0002 600 Volt Insulated Stranded Conductors (26 21 13 00-0001)		
26 21 13 00-0003 Aluminum Duplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0004 LF #6 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	6.21	2.42
26 21 13 00-0005 LF #4 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	7.41	2.86
26 21 13 00-0006 LF #2 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	8.52	3.23
26 21 13 00-0007 LF #1/0 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	11.00	4.06

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 21 Low-Voltage Electrical Service Entrance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0008 Aluminum Triplex ACSR Neutral (26 21 13 00-0002)				
26 21 13 00-0009	LF	#6 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt	7.45	2.86
26 21 13 00-0010	LF	#4 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt	8.47	3.23
26 21 13 00-0011	LF	#2 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt	10.70	4.06
26 21 13 00-0012	LF	#1/0 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt	13.21	4.95
26 21 13 00-0013	LF	#2/0 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt	17.37	6.55
26 21 13 00-0014	LF	#4/0 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt	21.81	8.12
26 21 13 00-0015	LF	336 MCM Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt	27.38	9.67
26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)				
26 21 13 00-0017	LF	#6 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	8.48	3.23
26 21 13 00-0018	LF	#4 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	10.70	4.06
26 21 13 00-0019	LF	#2 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	13.76	5.21
26 21 13 00-0020	LF	#1/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	17.60	6.55
26 21 13 00-0021	LF	#2/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	19.55	7.25
26 21 13 00-0022	LF	#3/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	22.21	8.12
26 21 13 00-0023	LF	#4/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	26.29	9.67
26 21 13 00-0024	LF	336 MCM Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	30.79	10.68
26 21 13 00-0025 Aluminum Triplex For Underground Service, Direct Burial (26 21 13 00-0002)				
Note: Excludes excavation and backfill.				
26 21 13 00-0026	MLF	#6 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	2,618.85	902.36
26 21 13 00-0027	MLF	#4 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	2,871.02	955.46
26 21 13 00-0028	MLF	#2 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	3,206.86	1,015.15
26 21 13 00-0029	MLF	#1/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	3,493.53	1,015.15
26 21 13 00-0030	MLF	#2/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	3,811.64	1,082.86
26 21 13 00-0031	MLF	#3/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	4,467.89	1,249.45
26 21 13 00-0032	MLF	#4/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	5,628.26	1,624.24
26 21 13 00-0033 Weather Proof Conduit Hubs (26 21 13 00-0002)				
26 21 13 00-0034	EA	1/2" Weatherproof Conduit Hubs	41.97	16.10
26 21 13 00-0035	EA	3/4" Weatherproof Conduit Hubs	47.85	18.30
26 21 13 00-0036	EA	1" Weatherproof Conduit Hubs	55.17	20.49
26 21 13 00-0037	EA	1-1/4" Weatherproof Conduit Hubs	76.38	27.45
26 21 13 00-0038	EA	1-1/2" Weatherproof Conduit Hubs	83.71	29.64
26 21 13 00-0039	EA	2" Weatherproof Conduit Hubs	106.14	34.40
26 21 13 00-0040	EA	2-1/2" Weatherproof Conduit Hubs	136.10	38.80
26 21 13 00-0041	EA	3" Weatherproof Conduit Hubs	173.50	45.75
26 21 13 00-0042	EA	4" Weatherproof Conduit Hubs	312.73	91.50
26 21 13 00-0043 Service Entrance Cap, Threaded Weatherhead, Galvanized (26 21 13 00-0002)				
26 21 13 00-0044	EA	1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Thru #10 AWG Cable Service	49.19	16.10
26 21 13 00-0045	EA	3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Thru #8 AWG Cable Service	56.52	18.30
26 21 13 00-0046	EA	1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	64.98	20.49
26 21 13 00-0047	EA	1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service	87.38	27.45
26 21 13 00-0048	EA	1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service	99.66	29.64
26 21 13 00-0049	EA	2" Galvanized Threaded Service Entrance Weatherhead Cap For #1/0 Thru #2/0 AWG Cable Service	133.73	34.40
26 21 13 00-0050	EA	2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #3/0 Thru #4/0 Cable Service	236.68	38.80
26 21 13 00-0051	EA	3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Thru 350 MCM Cable Service	268.45	45.75
26 21 13 00-0052	EA	4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Thru 750 MCM Cable Service	431.42	91.50
26 21 13 00-0053 Service Entrance Cap, Clamp-On Weatherhead, Aluminum (26 21 13 00-0002)				
26 21 13 00-0054	EA	1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 Thru #10 AWG Cable Service	47.24	16.10
26 21 13 00-0055	EA	3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #12 Thru #8 AWG Cable Service	53.24	18.30
26 21 13 00-0056	EA	1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service	60.54	20.40
26 21 13 00-0057	EA	1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service	80.37	27.45
26 21 13 00-0058	EA	1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service	90.20	29.64
26 21 13 00-0059	EA	2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #1/0 Thru #2/0 AWG Cable Service	106.68	34.40
26 21 13 00-0060	EA	2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #3/0 Thru #4/0 Cable Service	185.95	38.80
26 21 13 00-0061	EA	3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 Thru 350 MCM Cable Service	242.94	45.75
26 21 13 00-0062	EA	3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 Thru 500 MCM Cable Service	339.44	68.62
26 21 13 00-0063	EA	4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 Thru 750 MCM Cable Service	401.06	91.50
26 21 13 00-0064 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) (26 21 13 00-0002)				
26 21 13 00-0065	EA	1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 Thru #10 AWG Cable Service.....	43.40	16.10
26 21 13 00-0066	EA	3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #12 Thru #8 AWG Cable Service.....	49.59	18.30
26 21 13 00-0067	EA	1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	56.18	20.40
26 21 13 00-0068	EA	1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service.....	74.91	27.45
26 21 13 00-0069	EA	1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service.....	81.48	29.64



Electrical			26
Low-Voltage Electrical Distribution			26 20
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0070	EA		2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #1/0 Thru #2/0 AWG Cable Service	99.02	34.40
26 21 13 00-0071	EA		2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #3/0 Thru #4/0 Cable Service.....	156.93	38.80
26 21 13 00-0072	EA		3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 Thru 350 MCM Cable Service.....	176.90	45.75
26 21 13 00-0073	EA		3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 Thru 500 MCM Cable Service	299.38	68.62
26 21 13 00-0074	EA		4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 Thru 750 MCM Cable Service.....	413.00	91.50
26 22 Low-Voltage Transformers (26 20)					
26 22 13 Low-Voltage Distribution Transformers (26 22)					
26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers (26 22 13)					
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.					
26 22 13 00-0002 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)					
Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.					
26 22 13 00-0003	EA		1 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	633.19	234.72
26 22 13 00-0004	EA		3 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	812.61	281.67
26 22 13 00-0005	EA		5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	943.29	293.88
26 22 13 00-0006	EA		7.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,074.99	305.14
26 22 13 00-0007	EA		10 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,385.64	328.61
26 22 13 00-0008	EA		15 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,598.36	352.09
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add				44.71	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add				67.06	
26 22 13 00-0009	EA		25 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,738.08	375.56
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add				49.35	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add				74.02	
26 22 13 00-0010	EA		37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,765.06	422.51
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add				46.00	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add				69.00	
26 22 13 00-0011	EA		50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,058.42	469.46
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add				55.98	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add				83.96	
26 22 13 00-0012	EA		75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,644.19	563.35
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add				75.88	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add				113.81	
26 22 13 00-0013	EA		100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	3,277.15	657.24
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add				98.13	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add				147.20	
26 22 13 00-0014	EA		167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	4,945.50	845.02
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add				162.77	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add				244.16	
26 22 13 00-0015	EA		250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	8,241.55	1,032.80
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add				308.80	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add				463.20	
26 22 13 00-0016	EA		333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	12,311.24	1,173.63
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add				498.20	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add				747.30	
26 22 13 00-0017 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)					
Note: 1-10 Percent x 2-5 percent FCBN taps.					
26 22 13 00-0018	EA		3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	736.41	281.67
26 22 13 00-0019	EA		5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	821.19	293.40
26 22 13 00-0020	EA		7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	938.50	305.14
26 22 13 00-0021	EA		10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,064.68	328.61
26 22 13 00-0022 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)					
Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.					
26 22 13 00-0023	EA		15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,598.36	352.09
26 22 13 00-0024	EA		25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,738.08	375.56
26 22 13 00-0025 1 Phase Mounting Brackets (26 22 13 00-0001)					
26 22 13 00-0026	EA		1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA.....	442.02	167.30
26 22 13 00-0027 1 Phase Weathershields (26 22 13 00-0001)					
Note: Use with types DT-3 and DS-3.					
26 22 13 00-0028	EA		37.5 KVA 1 Phase Weathershields, Set Of 2	32.21	
26 22 13 00-0029	EA		50 KVA 1 Phase Weathershields, Set Of 2	41.06	
26 22 13 00-0030	EA		75 KVA 1 Phase Weathershields, Set Of 2	48.96	
26 22 13 00-0031	EA		100 KVA 1 Phase Weathershields, Set Of 2	58.41	
26 22 13 00-0032	EA		167 KVA 1 Phase Weathershields, Set Of 2	79.02	
26 22 13 00-0033	EA		250 KVA 1 Phase Weathershields, Set Of 2	94.49	
26 22 13 00-0034	EA		333 KVA 1 Phase Weathershields, Set Of 2	115.96	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0035		Packaged Power Supply (26 22 13 00-0001) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0036	EA	5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amp Breakers.....	1,060.38	293.40
26 22 13 00-0037	EA	7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amp Breakers.....	1,164.01	305.14
26 22 13 00-0038	EA	10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amp Breakers.....	1,258.71	328.61
26 22 13 00-0039	EA	15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amp Breakers.....	1,484.82	352.09
26 22 13 00-0040	EA	25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amp Breakers.....	1,915.52	375.56
26 22 13 00-0041		240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade (26 22 13 00-0001)		
26 22 13 00-0042	EA	0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	778.98	211.25
26 22 13 00-0043	EA	1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,023.49	234.72
26 22 13 00-0044	EA	2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,203.28	281.67
26 22 13 00-0045	EA	5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,308.35	293.40
26 22 13 00-0046	EA	7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,443.48	305.14
26 22 13 00-0047	EA	10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,782.48	328.61
26 22 13 00-0048	EA	15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	2,222.83	352.09
26 22 13 00-0049		1 Phase, 208/600 Volt, Dry General Purpose Transformer (26 22 13 00-0001)		
26 22 13 00-0050	EA	15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,637.14	352.09
26 22 13 00-0051	EA	25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,748.16	375.56
26 22 13 00-0052	EA	30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,865.98	399.03
26 22 13 00-0053	EA	37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,654.32	422.51
26 22 13 00-0054	EA	45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,805.92	445.99
26 22 13 00-0055	EA	50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	4,921.64	469.46
26 22 13 00-0056		3 Phase General Purpose "Dry Type" Transformer (26 22 13) Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0057		Packaged Power Supply (26 22 13 00-0056) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0058	EA	15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amp Breakers..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	4,288.51 113.49	1,009.32
26 22 13 00-0059	EA	22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amp Breakers..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	4,972.32 140.64 210.96	1,079.74
26 22 13 00-0060	EA	30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amp Breakers..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	5,798.57 172.57 258.85	1,173.63
26 22 13 00-0061		Drive Isolation Transformers (26 22 13 00-0056) Note: Only use in step-up applications.		
26 22 13 00-0062		230 Volt Drive Isolation Transformers (26 22 13 00-0061)		
26 22 13 00-0063	EA	7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	2,760.10	375.56
26 22 13 00-0064	EA	11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,182.78	399.03
26 22 13 00-0065	EA	15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,304.88	422.51
26 22 13 00-0066	EA	20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,839.79	445.99
26 22 13 00-0067	EA	27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,010.83	492.93
26 22 13 00-0068	EA	34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,407.32	539.87
26 22 13 00-0069	EA	40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,956.10	586.82
26 22 13 00-0070	EA	51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,737.21	657.24
26 22 13 00-0071	EA	63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,173.93	680.71
26 22 13 00-0072	EA	75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,033.48	704.18
26 22 13 00-0073	EA	93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,666.56	727.65
26 22 13 00-0074	EA	118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,815.79	891.96
26 22 13 00-0075	EA	145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,884.61	938.91
26 22 13 00-0076	EA	175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,366.24	985.85
26 22 13 00-0077	EA	220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,051.37	1,173.63
26 22 13 00-0078	EA	275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	19,746.32	1,384.89
26 22 13 00-0079	EA	330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,915.75	1,525.73
26 22 13 00-0080	EA	440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	25,279.33	1,690.03
26 22 13 00-0081	EA	550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	30,963.39	1,877.81
26 22 13 00-0082		208V Drive Isolation Transformers (26 22 13 00-0061)		
26 22 13 00-0083	EA	7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	2,862.36	375.56
26 22 13 00-0084	EA	11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,304.16	399.03
26 22 13 00-0085	EA	15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,430.09	422.51
26 22 13 00-0086	EA	20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,989.83	445.99
26 22 13 00-0087	EA	27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,164.80	492.93
26 22 13 00-0088	EA	30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,529.75	516.40
26 22 13 00-0089	EA	45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,195.58	610.29
26 22 13 00-0090	EA	51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,962.33	657.24



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Transformers	26 22	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 22 13 00-0091	EA	63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,418.89		680.71
26 22 13 00-0092	EA	75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,319.79		704.18
26 22 13 00-0093	EA	93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,033.61		727.65
26 22 13 00-0094	EA	118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,224.61		891.96
26 22 13 00-0095	EA	145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,343.05		938.91
26 22 13 00-0096	EA	175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,895.32		985.85
26 22 13 00-0097	EA	220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,698.01		1,173.63
26 22 13 00-0098		480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps (26 22 13 00-0096)			
26 22 13 00-0099	EA	9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,083.62		387.29
26 22 13 00-0100	EA	15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,641.16		422.51
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	89.81		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	134.71		
26 22 13 00-0101		480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps (26 22 13 00-0096)			
26 22 13 00-0102	EA	30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,005.81		516.40
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	98.65		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	147.98		
		For K4 Factor Rating, Add	1,381.11		
		For K13 Factor Rating, Add	1,973.01		
		For K20 Factor Rating, Add	2,564.91		
26 22 13 00-0103	EA	37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,565.43		563.35
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	121.94		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	182.91		
		For K4 Factor Rating, Add	1,707.13		
		For K13 Factor Rating, Add	2,438.75		
		For K20 Factor Rating, Add	3,170.38		
26 22 13 00-0104	EA	45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,750.19		610.29
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	126.48		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	189.72		
		For K4 Factor Rating, Add	1,770.73		
		For K13 Factor Rating, Add	2,529.61		
		For K20 Factor Rating, Add	3,288.49		
26 22 13 00-0105	EA	50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	4,771.88		657.24
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	172.87		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	259.31		
		For K4 Factor Rating, Add	2,420.19		
		For K13 Factor Rating, Add	3,457.41		
		For K20 Factor Rating, Add	4,494.63		
26 22 13 00-0106	EA	75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	4,764.98		704.18
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	167.83		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	251.75		
		For K4 Factor Rating, Add	2,349.63		
		For K13 Factor Rating, Add	3,356.62		
		For K20 Factor Rating, Add	4,363.61		
26 22 13 00-0107	EA	112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	5,897.95		845.02
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	210.40		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	315.59		
		For K4 Factor Rating, Add	2,945.54		
		For K13 Factor Rating, Add	4,207.92		
		For K20 Factor Rating, Add	5,470.30		
26 22 13 00-0108	EA	150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	7,489.72		938.91
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	280.60		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	420.89		
		For K4 Factor Rating, Add	3,928.34		
		For K13 Factor Rating, Add	5,611.91		
		For K20 Factor Rating, Add	7,295.48		
26 22 13 00-0109	EA	225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	10,101.17		1,173.63
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	387.70		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	581.54		
		For K4 Factor Rating, Add	5,427.73		
		For K13 Factor Rating, Add	7,753.90		
		For K20 Factor Rating, Add	10,080.07		
26 22 13 00-0110	EA	300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	12,338.78		1,455.31
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	471.41		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	707.11		
		For K4 Factor Rating, Add	6,599.71		
		For K13 Factor Rating, Add	9,428.16		
		For K20 Factor Rating, Add	12,256.61		
26 22 13 00-0111	EA	500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	17,373.86		1,783.92
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	690.30		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,035.45		
		For K4 Factor Rating, Add	9,664.21		
		For K13 Factor Rating, Add	13,806.02		
		For K20 Factor Rating, Add	17,947.83		
26 22 13 00-0112	EA	750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	37,995.01		2,146.46
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,683.80		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	2,525.70		
		For K4 Factor Rating, Add	23,573.23		
		For K13 Factor Rating, Add	33,676.04		
		For K20 Factor Rating, Add	43,778.85		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0113	EA	1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	49,529.81	2,347.27
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,241.76	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	3,362.65	
		For K4 Factor Rating, Add	31,384.69	
		For K13 Factor Rating, Add	44,835.27	
		For K20 Factor Rating, Add	58,285.85	
26 22 13 00-0114		480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps (26 22 13 00-0056)		
26 22 13 00-0115	EA	6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	1,747.90	363.82
		For K4 Factor Rating, Add	714.18	
		For K13 Factor Rating, Add	1,020.25	
		For K20 Factor Rating, Add	1,326.33	
26 22 13 00-0116	EA	9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	2,083.62	387.29
		For K4 Factor Rating, Add	916.31	
		For K13 Factor Rating, Add	1,309.02	
		For K20 Factor Rating, Add	1,701.73	
26 22 13 00-0117	EA	15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	2,641.16	422.51
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	89.81	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	134.71	
		For K4 Factor Rating, Add	1,257.30	
		For K13 Factor Rating, Add	1,796.14	
		For K20 Factor Rating, Add	2,334.98	
26 22 13 00-0118		480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps (26 22 13 00-0056)		
26 22 13 00-0119	EA	30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	4,788.51	516.40
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	187.79	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	281.68	
		For K4 Factor Rating, Add	2,629.00	
		For K13 Factor Rating, Add	3,755.71	
		For K20 Factor Rating, Add	4,882.42	
26 22 13 00-0120	EA	45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	5,399.94	610.29
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	208.97	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	313.45	
		For K4 Factor Rating, Add	2,925.55	
		For K13 Factor Rating, Add	4,179.36	
		For K20 Factor Rating, Add	5,433.17	
26 22 13 00-0121	EA	75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	7,764.66	704.18
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	317.82	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	476.72	
		For K4 Factor Rating, Add	4,449.41	
		For K13 Factor Rating, Add	6,356.30	
		For K20 Factor Rating, Add	8,263.19	
26 22 13 00-0122	EA	112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	9,707.61	845.02
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	400.88	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	601.32	
		For K4 Factor Rating, Add	5,612.31	
		For K13 Factor Rating, Add	8,017.58	
		For K20 Factor Rating, Add	10,422.85	
26 22 13 00-0123	EA	150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	11,610.60	938.91
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	486.64	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	729.96	
		For K4 Factor Rating, Add	6,812.95	
		For K13 Factor Rating, Add	9,732.79	
		For K20 Factor Rating, Add	12,652.63	
26 22 13 00-0124	EA	225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	14,852.02	1,173.63
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	625.24	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	937.86	
		For K4 Factor Rating, Add	8,753.33	
		For K13 Factor Rating, Add	12,504.75	
		For K20 Factor Rating, Add	16,256.18	
26 22 13 00-0125	EA	300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	18,087.37	1,455.31
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	758.84	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,138.26	
		For K4 Factor Rating, Add	10,623.73	
		For K13 Factor Rating, Add	15,176.75	
		For K20 Factor Rating, Add	19,729.78	
26 22 13 00-0126	EA	500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	28,494.83	1,783.92
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,246.35	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,869.52	
		For K4 Factor Rating, Add	17,448.89	
		For K13 Factor Rating, Add	24,926.99	
		For K20 Factor Rating, Add	32,405.09	
26 22 13 00-0127		3 Phase 60 Hz K20 Dry Type Transformers (26 22 13 00-0056)		
26 22 13 00-0128		3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise (26 22 13 00-0127) Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0129	EA	15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	2,496.77	422.51
26 22 13 00-0130	EA	30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	3,649.26	516.40
26 22 13 00-0131	EA	45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	5,204.77	610.29
26 22 13 00-0132	EA	75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	6,573.06	704.18



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Transformers	26 22	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0133	EA	112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	9,656.83	845.02
26 22 13 00-0134	EA	150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	11,655.03	938.91
26 22 13 00-0135	EA	225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	13,638.20	1,173.63
26 22 13 00-0136	EA	300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	21,243.31	1,455.31
26 22 13 00-0137 3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise (26 22 13 00-0127)				
Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.				
26 22 13 00-0138	EA	15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	2,828.39	422.51
26 22 13 00-0139	EA	30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	4,172.87	516.40
26 22 13 00-0140	EA	45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	6,001.29	610.29
26 22 13 00-0141	EA	75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	7,604.41	704.18
26 22 13 00-0142	EA	112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	11,249.87	845.02
26 22 13 00-0143	EA	150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	13,611.43	938.91
26 22 13 00-0144	EA	225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	15,896.07	1,173.63
26 22 13 00-0145	EA	300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	24,910.16	1,455.31
26 22 13 00-0146 NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0056)				
26 22 13 00-0147 Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0146)				
Note: Two taps at 2.5%, four at -2.5%.				
26 22 13 00-0148 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)				
26 22 13 00-0149	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	2,939.50	419.96
26 22 13 00-0150	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,585.69	513.28
26 22 13 00-0151	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,322.85	606.60
26 22 13 00-0152	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,806.06	699.94
26 22 13 00-0153	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,769.45	839.92
26 22 13 00-0154	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,667.14	933.25
26 22 13 00-0155	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	12,818.29	1,166.55
26 22 13 00-0156	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	18,047.99	1,446.53
26 22 13 00-0157 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)				
26 22 13 00-0158	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,571.21	419.96
26 22 13 00-0159	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,350.87	513.28
26 22 13 00-0160	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,255.95	606.60
26 22 13 00-0161	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,128.13	699.94
26 22 13 00-0162	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,134.03	839.92
26 22 13 00-0163	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	12,007.33	933.25
26 22 13 00-0164	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	15,964.05	1,166.55
26 22 13 00-0165	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	22,594.47	1,446.53
26 22 13 00-0166 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)				
26 22 13 00-0167	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,200.37	419.96
26 22 13 00-0168	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,118.19	513.28
26 22 13 00-0169	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,189.06	606.60
26 22 13 00-0170	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,448.08	699.94
26 22 13 00-0171	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,855.69	839.92
26 22 13 00-0172	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	14,347.52	933.25
26 22 13 00-0173	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	19,109.82	1,166.55
26 22 13 00-0174	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	27,140.96	1,446.53

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0175	Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0146) Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0176	150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0175)		
26 22 13 00-0177	EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	3,989.93	419.96
26 22 13 00-0178	EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,863.13	513.28
26 22 13 00-0179	EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,876.60	606.60
26 22 13 00-0180	EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,008.09	699.94
26 22 13 00-0181	EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	10,881.20	839.92
26 22 13 00-0182	EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	13,648.23	933.25
26 22 13 00-0183	EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	18,168.21	1,166.55
26 22 13 00-0184	EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	25,782.75	1,446.53
26 22 13 00-0185	115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0175)		
26 22 13 00-0186	EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,619.09	419.96
26 22 13 00-0187	EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,630.44	513.28
26 22 13 00-0188	EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,809.71	606.60
26 22 13 00-0189	EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,330.17	699.94
26 22 13 00-0190	EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	14,231.02	839.92
26 22 13 00-0191	EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	17,954.52	933.25
26 22 13 00-0192	EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	22,920.87	1,166.55
26 22 13 00-0193	EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	34,176.42	1,446.53
26 22 13 00-0194	80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0175)		
26 22 13 00-0195	EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,250.37	419.96
26 22 13 00-0196	EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,397.75	513.28
26 22 13 00-0197	EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,742.81	606.60
26 22 13 00-0198	EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	10,650.11	699.94
26 22 13 00-0199	EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	16,921.92	839.92
26 22 13 00-0200	EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	21,859.10	933.25
26 22 13 00-0201	EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	27,671.40	1,166.55
26 22 13 00-0202	EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	40,880.29	1,446.53
26 22 13 00-0203	3 Phase Weathershields (26 22 13 00-0056) Note: Use with type DT-3 and DS-3.		
26 22 13 00-0204	EA 45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	436.34	
26 22 13 00-0205	EA 150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	740.99	
26 22 13 00-0206	EA 500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	740.99	
26 22 13 00-0207	Three Phase Mounting Brackets (26 22 13 00-0056)		
26 22 13 00-0208	EA 3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA.....	567.52	167.30
26 22 13 00-0209	Pad Mounted Commercial Type Distribution Transformers UL Listed (26 22 13)		
26 22 13 00-0210	Distribution 3 Phase Oil Filled Transformer (26 22 13 00-0209) Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Transformers			26 22

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0211	Factory Modifications (26 22 13 00-0210) Note: For use with series 4100 3 phase transformers.	
26 22 13 00-0212 EA	Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification	799.54
26 22 13 00-0213 EA	Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification	130.01
26 22 13 00-0214 EA	Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification	520.05
26 22 13 00-0215 EA	Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification	1,498.31
26 22 13 00-0216 EA	Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification	183.55
26 22 13 00-0217 EA	Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification	145.31
26 22 13 00-0218	Accessories For Transformer Liquid Containment Area (26 22 13 00-0210) Note: Reinforced concrete curb with 6" slab.	
26 22 13 00-0219 EA	Containment Area For 75 KVA	4,529.12
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,136.18
26 22 13 00-0220 EA	Containment Area For 112.5 KVA	4,529.12
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,136.18
26 22 13 00-0221 EA	Containment Area For 150 KVA	4,529.12
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,136.18
26 22 13 00-0222 EA	Containment Area For 225 KVA	4,529.12
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,136.18
26 22 13 00-0223 EA	Containment Area For 300 KVA	4,523.00
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,134.35
26 22 13 00-0224 EA	Containment Area For 500 KVA	4,523.00
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,134.35
26 22 13 00-0225 EA	Containment Area For 750 KVA	4,544.42
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,134.35
26 22 13 00-0226 EA	Containment Area For 1,000 KVA	4,854.92
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,134.35
26 22 13 00-0227	Primary, 4.16/4.8 KV Ground Y Or Delta 480 Y / 277 Volt, 480 Volt, 95 KV BIL (26 22 13 00-0210) Note: 7.2 Thru 14.4 KV secondary. Rated to 5 KVA.	
26 22 13 00-0228 EA	45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	5,795.68
26 22 13 00-0229 EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,254.55
26 22 13 00-0230 EA	112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,560.47
26 22 13 00-0231 EA	150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	7,478.21
26 22 13 00-0232 EA	225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	8,383.18
26 22 13 00-0233 EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	8,689.10
26 22 13 00-0234 EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	12,360.07
26 22 13 00-0235 EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	15,874.16
26 22 13 00-0236 EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	19,851.05
26 22 13 00-0237	Primary, 4.16/4.8 KV Ground Y Or Delta 208 Y / 120 Volt, 95 BIL (26 22 13 00-0210) Note: 7.2 Thru 14.4 KV secondary. Rated to 5 KVA.	
26 22 13 00-0238 EA	45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	5,948.64
26 22 13 00-0239 EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,560.47
26 22 13 00-0240 EA	112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,713.43
26 22 13 00-0241 EA	150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,866.38
26 22 13 00-0242 EA	225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	8,383.18
26 22 13 00-0243 EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	8,995.01
26 22 13 00-0244 EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	12,360.07
26 22 13 00-0245 EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	16,027.12
26 22 13 00-0246 EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	19,851.05
26 22 13 00-0247	Primary 5 KV Or 15 KV, Secondary 277/480 Volt (26 22 13 00-0209) Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.	
26 22 13 00-0248 EA	150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	9,919.03
26 22 13 00-0249 EA	225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	11,031.03
26 22 13 00-0250 EA	300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	12,653.81
26 22 13 00-0251 EA	500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	14,865.58
26 22 13 00-0252 EA	750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	17,615.50

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0253 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	22,293.83	3,691.96
26 22 13 00-0254 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	25,929.95	4,176.85
26 22 13 00-0255 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	31,850.01	4,800.98
26 22 13 00-0256 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	34,777.18	5,041.03
26 22 13 00-0257 EA 3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	37,195.82	5,617.34
26 22 13 00-0258 EA 3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	42,044.89	6,001.41
26 22 13 00-0259 Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled (26 22 13 00-0209)		
26 22 13 00-0260 EA 1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled	36,976.15	4,159.01
26 22 13 00-0261 EA 2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled	45,152.78	4,782.88
26 22 13 00-0262 EA 2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled	50,922.82	5,034.57
26 22 13 00-0263 EA 3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled	54,376.36	5,626.90
26 22 13 00-0264 EA 3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled	60,432.88	5,797.40
26 22 13 00-0265 Silicone Filled Distribution Transformers, 3 Phase (26 22 13 00-0209)		
Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0266 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	15,878.64	1,745.63
26 22 13 00-0267 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	17,442.87	2,133.56
26 22 13 00-0268 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	20,296.06	2,400.49
26 22 13 00-0269 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	24,008.12	2,526.76
26 22 13 00-0270 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	29,799.93	3,691.96
26 22 13 00-0271 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	37,053.98	4,176.85
26 22 13 00-0272 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	44,700.12	4,800.98
26 22 13 00-0273 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	50,436.30	5,041.03
26 22 13 00-0274 Foam Core Poly Transformer Pads (26 22 13)		
26 22 13 00-0275 EA Single Phase Foam Core Poly Pads.....	147.49	31.07
Note: Excludes site prep.		
26 24 Switchboards And Panelboards (26 20)		
26 24 13 Switchboards (26 24)		
Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.		
26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0002 Incoming Service Section Main Device Only (26 24 13 00-0001)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0003 EA 400 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	3,188.03	800.32
26 24 13 00-0004 EA 600 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	3,527.71	846.53
26 24 13 00-0005 EA 800 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	5,686.28	960.26
26 24 13 00-0006 EA 1,200 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	6,125.19	1,029.43
26 24 13 00-0007 EA 1,600 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	9,812.84	1,097.59
26 24 13 00-0008 EA 2,000 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	10,940.61	1,167.04
26 24 13 00-0009 EA 400 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	3,855.06	800.32
26 24 13 00-0010 EA 600 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	4,933.49	846.53
26 24 13 00-0011 EA 800 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	6,870.16	961.08
26 24 13 00-0012 EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	9,390.00	1,029.43
26 24 13 00-0013 EA 1,600 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	9,812.84	1,098.69
26 24 13 00-0014 EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	10,940.61	1,167.04
26 24 13 00-0015 EA 2,500 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	13,143.52	1,220.10
26 24 13 00-0016 EA 3,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	14,898.05	1,307.12
26 24 13 00-0017 EA 4,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	17,581.77	1,409.05
26 24 13 00-0018 EA 400 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	2,168.97	709.10
26 24 13 00-0019 EA 600 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	2,395.16	754.94
26 24 13 00-0020 EA 800 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	2,743.59	869.03
26 24 13 00-0021 EA 1,000 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	2,957.35	905.55
26 24 13 00-0022 EA 1,200 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	3,148.11	938.20
26 24 13 00-0023 EA 1,600 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	3,448.82	1,005.91
26 24 13 00-0024 EA 2,000 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	3,728.78	1,074.90
26 24 13 00-0025 Branch Breaker Units (26 24 13 00-0001)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0026 EA 15 - 60 Amp MC Branch Breaker, 240 Volt.....	272.29	27.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	16.74	
26 24 13 00-0027 EA 70 - 100 Amp MC Branch Breaker, 240 Volt.....	399.03	43.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	26.35	
26 24 13 00-0028 EA 125 - 225 Amp MC Branch Breaker, 240 Volt.....	1,070.69	80.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	48.03	
26 24 13 00-0029 EA 100 - 400 Amp MC Branch Breaker, 240 Volt.....	1,899.87	104.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	62.58	
26 24 13 00-0030 EA 300 - 600 Amp MC Branch Breaker, 240 Volt.....	3,386.10	256.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	153.69	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0031 EA 400 - 800 Amp MC Branch Breaker, 240 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,416.97 153.69	256.19
26 24 13 00-0032 EA 600 - 1,200 Amp MC Branch Breaker, 240 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,783.61 273.94	456.57
26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035 EA 400 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	4,512.37	1,038.49
26 24 13 00-0036 EA 600 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	5,039.12	1,038.49
26 24 13 00-0037 EA 800 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	7,455.23	1,349.58
26 24 13 00-0038 EA 1,200 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	8,446.46	1,349.58
26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)		
26 24 13 00-0040 Incoming Service Section Main Device Only (26 24 13 00-0039) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041 EA 200/400 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,868.54	709.10
26 24 13 00-0042 EA 600 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,192.99	754.94
26 24 13 00-0043 EA 800 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	4,883.90	869.03
26 24 13 00-0044 EA 1,200 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,306.17	937.47
26 24 13 00-0045 EA 200/400 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,501.75	709.10
26 24 13 00-0046 EA 600 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	4,418.81	754.94
26 24 13 00-0047 EA 800 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	6,199.03	869.03
26 24 13 00-0048 EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	8,893.00	937.47
26 24 13 00-0049 EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	10,438.89	1,052.21
26 24 13 00-0050 EA 200/400 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,011.73	617.51
26 24 13 00-0051 EA 600 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,253.62	663.44
26 24 13 00-0052 EA 800 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,645.53	777.54
26 24 13 00-0053 EA 1,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,847.11	814.05
26 24 13 00-0054 EA 1,200 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,042.08	846.53
26 24 13 00-0055 EA 1,600 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,300.77	905.55
26 24 13 00-0056 EA 2,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,553.66	960.26
26 24 13 00-0057 EA 2,500 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	4,411.18	1,189.45
26 24 13 00-0058 EA 3,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	4,936.75	1,303.82
26 24 13 00-0059 EA 4,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,805.21	1,406.76
26 24 13 00-0060 Branch Breaker Units (26 24 13 00-0039) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061 EA 15 - 60 Amp MC Branch Breaker, 120 / 240 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	146.72 14.55	24.25
26 24 13 00-0062 EA 70 - 100 Amp MC Branch Breaker, 120 / 240 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	233.13 24.15	40.26
26 24 13 00-0063 EA 125 - 225 Amp MC Branch Breaker, 120 / 240 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	707.86 33.76	56.27
26 24 13 00-0064 EA 100 - 400 Amp MC Branch Breaker, 120 / 240 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,032.01 43.37	72.29
26 24 13 00-0065 EA 300 - 600 Amp MC Branch Breaker, 120 / 240 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,203.03 105.67	176.13
26 24 13 00-0066 EA 400 - 800 Amp MC Branch Breaker, 120 / 240 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,550.62 105.67	176.13
26 24 13 00-0067 EA 600 - 1,200 Amp MC Branch Breaker, 120 / 240 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,505.28 201.77	336.25
26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0069 Incoming Service Section Main Device Only (26 24 13 00-0068) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070 EA 400 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,189.15	800.32
26 24 13 00-0071 EA 600 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,526.46	846.53
26 24 13 00-0072 EA 800 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	5,684.66	960.26
26 24 13 00-0073 EA 1,200 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	6,123.33	1,029.43
26 24 13 00-0074 EA 1,600 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	9,808.62	1,097.59
26 24 13 00-0075 EA 2,000 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	10,940.61	1,167.04
26 24 13 00-0076 EA 400 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,856.18	800.32
26 24 13 00-0077 EA 600 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,932.24	846.53
26 24 13 00-0078 EA 800 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	6,870.16	961.08
26 24 13 00-0079 EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	9,388.14	1,029.43
26 24 13 00-0080 EA 1,600 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	9,810.72	1,098.69
26 24 13 00-0081 EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	10,940.61	1,167.04
26 24 13 00-0082 EA 400 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	2,274.57	709.10
26 24 13 00-0083 EA 600 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	2,542.19	754.94
26 24 13 00-0084 EA 800 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	2,963.98	869.03
26 24 13 00-0085 EA 1,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,188.47	905.55
26 24 13 00-0086 EA 1,200 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,405.36	938.20
26 24 13 00-0087 EA 1,600 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,696.30	1,005.91
26 24 13 00-0088 EA 2,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,991.28	1,074.90

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0089	EA	2,500 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,736.69	1,221.48
26 24 13 00-0090	EA	3,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	5,239.77	1,307.03
26 24 13 00-0091	EA	4,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	6,183.48	1,404.48
26 24 13 00-0092		Branch Breaker Units (26 24 13 00-0069)		
		Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093	EA	15 - 60 Amp MC Branch Breaker, 120/208 Volt.....	272.29	27.91
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.74	
26 24 13 00-0094	EA	70 - 100 Amp MC Branch Breaker, 120/208 Volt.....	399.03	43.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.35	
26 24 13 00-0095	EA	125 - 225 Amp MC Branch Breaker, 120/208 Volt.....	1,070.69	80.06
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.03	
26 24 13 00-0096	EA	100 - 400 Amp MC Branch Breaker, 120/208 Volt.....	1,899.87	104.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.58	
26 24 13 00-0097	EA	300 - 600 Amp MC Branch Breaker, 120/208 Volt.....	3,386.10	256.19
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.69	
26 24 13 00-0098	EA	400 - 800 Amp MC Branch Breaker, 120/208 Volt.....	5,416.97	256.19
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.69	
26 24 13 00-0099	EA	600 - 1,200 Amp MC Branch Breaker, 120/208 Volt.....	8,783.61	456.57
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	273.94	
26 24 13 00-0100		Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0101		Incoming Service Section Main Device Only (26 24 13 00-0100)		
		Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102	EA	400 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	4,135.44	1,097.59
26 24 13 00-0103	EA	600 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	4,538.16	1,167.04
26 24 13 00-0104	EA	800 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	6,446.45	1,302.64
26 24 13 00-0105	EA	1,200 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	7,046.10	1,394.78
26 24 13 00-0106	EA	400 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	5,267.91	1,097.59
26 24 13 00-0107	EA	600 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	7,076.41	1,167.04
26 24 13 00-0108	EA	800 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	8,017.57	1,304.10
26 24 13 00-0109	EA	1,200 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	10,118.79	1,394.78
26 24 13 00-0110	EA	1,600 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	10,587.93	1,487.28
26 24 13 00-0111	EA	2,000 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	11,765.92	1,579.69
26 24 13 00-0112	EA	400 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	2,274.57	709.10
26 24 13 00-0113	EA	600 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	2,542.19	754.94
26 24 13 00-0114	EA	800 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	2,963.98	869.03
26 24 13 00-0115	EA	1,000 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,188.47	905.55
26 24 13 00-0116	EA	1,200 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,405.36	938.20
26 24 13 00-0117	EA	1,600 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,696.30	1,005.91
26 24 13 00-0118	EA	2,000 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,991.28	1,074.90
26 24 13 00-0119		Branch Breaker Units (26 24 13 00-0100)		
		Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120	EA	15 - 60 Amp MC Branch Breaker, 480 / 277 Volt.....	563.19	27.91
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.74	
26 24 13 00-0121	EA	70 - 100 Amp MC Branch Breaker, 480 / 277 Volt.....	649.34	43.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.35	
26 24 13 00-0122	EA	125 - 225 Amp MC Branch Breaker, 480 / 277 Volt.....	1,177.57	80.06
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.03	
26 24 13 00-0123	EA	100 - 400 Amp MC Branch Breaker, 480 / 277 Volt.....	1,899.87	104.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.58	
26 24 13 00-0124	EA	300 - 600 Amp MC Branch Breaker, 480 / 277 Volt.....	4,552.39	256.19
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.69	
26 24 13 00-0125	EA	400 - 800 Amp MC Branch Breaker, 480 / 277 Volt.....	4,656.57	256.19
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.69	
26 24 13 00-0126	EA	600 - 1,200 Amp MC Branch Breaker, 480 / 277 Volt.....	7,472.54	456.57
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	273.94	
26 24 13 00-0127		Fusible Branch Circuit Switch (26 24 13)		
		Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128		240 Volt, 2 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0129	EA	30/30 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit.....	580.90	71.83
		For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0130	EA	30/60 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit.....	578.87	71.83
		For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0131	EA	60/60 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit.....	578.87	71.83
		For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0132	EA	60/100 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit.....	908.27	94.70
		For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0133	EA	100/100 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit.....	908.27	94.70
		For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0134		240 Volt, 2 Pole Single Branch Switch Units (26 24 13 00-0127)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0135 EA 100 Amp, 240 Volt, 2 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	664.33 226.59	70.45
26 24 13 00-0136 EA 200 Amp, 240 Volt, 2 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	968.18 226.59	70.45
26 24 13 00-0137 EA 400 Amp, 240 Volt, 2 Pole Single Branch Switch Unit.....	2,488.63	189.85
26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0139 EA 30/30 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	744.25 236.53	80.97
26 24 13 00-0140 EA 30/60 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	742.22 236.53	80.97
26 24 13 00-0141 EA 60/60 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	742.22 236.53	80.97
26 24 13 00-0142 EA 60/100 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,117.89 236.53	108.42
26 24 13 00-0143 EA 100/100 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,117.89 236.53	108.42
26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0145 EA 100 Amp, 240 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	804.51 236.53	79.60
26 24 13 00-0146 EA 200 Amp, 240 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,299.83 226.59	79.60
26 24 13 00-0147 EA 400 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	3,332.45	212.55
26 24 13 00-0148 EA 600 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	4,758.46	272.29
26 24 13 00-0149 EA 800 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	8,854.82	368.92
26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0151 EA 30/30 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,050.97 236.53	80.97
26 24 13 00-0152 EA 30/60 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,048.92 236.53	80.97
26 24 13 00-0153 EA 60/60 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,050.97 236.53	80.97
26 24 13 00-0154 EA 60/100 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,580.69 236.53	108.42
26 24 13 00-0155 EA 100/100 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,614.94 236.53	108.42
26 24 13 00-0156 EA 200/200 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	3,437.34 236.53	141.82
26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0158 EA 100 Amp, 600 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,134.86 236.53	79.60
26 24 13 00-0159 EA 200 Amp, 600 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,719.23 226.59	79.60
26 24 13 00-0160 EA 400 Amp, 600 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	4,183.17 226.59	212.55
26 24 13 00-0161 EA 600 Amp, 600 Volt, 3 Pole Single Branch Switch Unit.....	5,080.46	272.29
26 24 13 00-0162 EA 800 Amp, 600 Volt, 3 Pole Single Branch Switch Unit.....	8,854.82	368.92
26 24 13 00-0163 Service And Distribution Structures (26 24 13)		
26 24 13 00-0164 Distribution Section 600 Volts, 250 Volts DC (26 24 13 00-0163)		
26 24 13 00-0165 600 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0166 EA 14 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,131.78	841.77
26 24 13 00-0167 EA 24 - 30 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,541.51	841.77
26 24 13 00-0168 EA 34 - 38 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,830.35	1,070.51
26 24 13 00-0169 EA 42 - 48 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,125.94	1,070.51
26 24 13 00-0170 800 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,400.78	974.44
26 24 13 00-0172 EA 24 - 30 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,798.83	974.44
26 24 13 00-0173 EA 34 - 38 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,125.94	1,207.76
26 24 13 00-0174 EA 42 - 48 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,391.48	1,207.76
26 24 13 00-0175 1,200 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,817.12	1,189.45
26 24 13 00-0177 EA 24 - 30 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,225.16	1,189.45
26 24 13 00-0178 EA 34 - 38 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,573.02	1,463.95
26 24 13 00-0179 EA 42 - 48 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,962.04	1,463.95

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0180		1,600 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0181	EA	14 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,473.00	1,303.82
26 24 13 00-0182	EA	24 - 30 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,961.00	1,303.82
26 24 13 00-0183	EA	34 - 38 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,374.70	1,610.34
26 24 13 00-0184	EA	42 - 48 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,713.58	1,610.34
26 24 13 00-0185		2,000 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0186	EA	14 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,642.62	1,308.40
26 24 13 00-0187	EA	24 - 30 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,170.47	1,473.10
26 24 13 00-0188	EA	34 - 38 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,257.40	1,473.10
26 24 13 00-0189	EA	42 - 48 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,436.95	1,555.44
26 24 13 00-0190		3,000 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0191	EA	24 - 30 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,997.02	1,473.10
26 24 13 00-0192	EA	34 - 38 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,082.66	1,473.10
26 24 13 00-0193	EA	42 - 48 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,262.21	1,555.44
26 24 13 00-0194		4,000 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0195	EA	24 - 30 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,114.32	1,555.44
26 24 13 00-0196	EA	34 - 38 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,262.21	1,555.44
26 24 13 00-0197	EA	42 - 48 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,327.04	1,555.44
26 24 13 00-0198		Pull Boy, Horizontal Mounted Across Top Of Switch Board (26 24 13 00-0164)		
26 24 13 00-0199	EA	18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard	450.41	109.79
26 24 13 00-0200	EA	Drilled Bottom	507.90	109.79
26 24 13 00-0201	EA	Cable Supports In Pull Box	180.59	27.45
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 24 13 00-0202		Underground Pull Sections (26 24 13 00-0164)		
		Note: Excludes no bus or terminal.		
26 24 13 00-0203	EA	12 - 20" Wide, 15 - 20" Deep Underground Pull Section Without Bus Or Terminal.....	437.83	128.10
26 24 13 00-0204	EA	24 - 28" Wide, 20" Deep Underground Pull Section Without Bus Or Terminal.....	755.11	164.69
26 24 13 00-0205	EA	24 - 28" Wide, 30" Deep Underground Pull Section Without Bus Or Terminal.....	755.11	164.69
26 24 13 00-0206	EA	14 - 20" Wide, 36" Deep Underground Pull Section Without Bus Or Terminal.....	566.44	128.10
26 24 13 00-0207	EA	28 - 30" Wide, 36" Deep Underground Pull Section Without Bus Or Terminal.....	808.94	187.57
26 24 13 00-0208	EA	14 - 20" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	923.95	187.57
26 24 13 00-0209	EA	26 - 30" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	969.39	242.46
26 24 13 00-0210	EA	38" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	1,024.74	242.46
26 24 13 00-0211		Switchboard Sections (26 24 13 00-0163)		
26 24 13 00-0212	EA	600 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	3,511.71	762.45
26 24 13 00-0213	EA	800 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	3,845.88	828.78
26 24 13 00-0214	EA	1,200 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	4,824.59	1,058.98
26 24 13 00-0215	EA	1,600 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	5,276.29	1,155.23
26 24 13 00-0216	EA	2,000 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	5,626.92	1,229.80
26 24 13 00-0217	EA	400 Amp Switchboard Incoming For Switch Circuit Section 480 Volt	4,159.47	668.84
26 24 13 00-0218	EA	Distribution Section Subfeeder Lug-Rated At 200 Amp	2,387.99	635.35
26 24 13 00-0219	EA	Distribution Section Subfeeder Lug-Rated At 400 Amp	2,644.88	688.97
26 24 13 00-0220	EA	Distribution Section Aluminum Bus 120/208 Or 277/480 Volt, 4 Wire.....	4,472.30	762.45
26 24 13 00-0221	EA	800 Amp Switchboard Distribution Section Aluminum Bus Less Breaker	4,824.44	764.45
26 24 13 00-0222	EA	1,000 Amp Switchboard Distribution Section Aluminum Bus Less Breaker.....	5,306.99	853.48
26 24 13 00-0223	EA	15 To 60 Amp, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	134.60	45.75
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.94	
26 24 13 00-0224	EA	70 To 100 Amp, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	164.15	46.57
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.01	
26 24 13 00-0225	EA	70 To 225 Amp, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame	749.56	54.99
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.11	
26 24 13 00-0226	EA	125 To 400 Amp, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame	1,239.96	118.49
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.02	
26 24 13 00-0227	EA	100 Amp, Switchboard Feed Section Branch Circuit Breaker, 240 Volt HIC 3 Phase.....	495.83	165.06
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.19	
26 24 13 00-0228	EA	225 Amp, Switchboard Feed Section Branch Circuit Breaker, 240 Volt HIC 3 Phase.....	1,388.79	95.34
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.11	
26 24 13 00-0229		Switchboard, Structure Per Section Copper 480 V (26 24 13 00-0163)		
26 24 13 00-0230	EA	225 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	1,820.59	397.09
26 24 13 00-0231	EA	400 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	2,587.62	536.99
26 24 13 00-0232	EA	600 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	2,906.87	653.56
26 24 13 00-0233	EA	800 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	3,672.85	914.96
26 24 13 00-0234	EA	1,200 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	4,552.07	1,143.71
26 24 13 00-0235	EA	1,600 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	5,008.23	1,143.71
26 24 13 00-0236	EA	2,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	6,191.34	1,524.97
26 24 13 00-0237	EA	2,500 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	7,066.00	1,524.97



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 24 13 00-0238	EA	3,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	8,310.74		1,815.38
26 24 13 00-0239	EA	4,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	9,920.20		1,815.38
26 24 13 00-0240		Main Devices (26 24 13)			
26 24 13 00-0241		Power Circuit Breakers (26 24 13 00-0240)			
26 24 13 00-0242		DSL Breaker With Current Limiters And Amptector (26 24 13 00-0241)			
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.					
26 24 13 00-0243	EA	50 - 800 Amp DSL-206, Main Breaker With Current Limiter, Amptector Static Trip.....	6,357.67		960.72
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	575.21		
26 24 13 00-0244	EA	50 - 1,600 Amp DSL-416, Main Breaker With Current Limiter, Amptector Static Trip.....	11,590.61		1,601.19
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	959.76		
26 24 13 00-0245	EA	1,200 - 3,200 Amp DSL-632, Main Breaker With Current Limiter, Amptector Static Trip.....	26,038.67		2,690.00
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,599.59		
26 24 13 00-0246	EA	4,000 Amp DSL-840, Main Breaker With Current Limiter, Amptector Static Trip.....	41,956.70		4,355.24
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,659.79		
26 24 13 00-0247	EA	Ground-Fault Trip All Power Breakers - Factory Installed.....	2,190.31		
26 24 13 00-0248	EA	Key Interlock All Power Breakers - Factory Installed.....	282.87		
26 24 13 00-0249	EA	Short Time Delay Selective Trip - Factory Installed.....	371.11		
26 24 13 00-0250	EA	Shunt Trip Manually Open Breakers - Factory Installed.....	267.30		
26 24 13 00-0251		DSL Breaker Electrical Operated And Amptector (26 24 13 00-0241)			
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.					
26 24 13 00-0252	EA	50 - 800 Amp DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip.....	7,441.14		1,006.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	606.74		
26 24 13 00-0253	EA	50 - 1,600 Amp DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip.....	13,809.09		1,692.69
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,010.64		
26 24 13 00-0254	EA	1,200 - 3,200 Amp DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip.....	29,239.14		2,790.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,681.92		
26 24 13 00-0255	EA	4,000 Amp DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip.....	45,182.52		4,574.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,812.40		
26 24 13 00-0256		DS Breakers With Amptector Static Trip, Manually Operated (26 24 13 00-0241)			
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.					
26 24 13 00-0257	EA	50 - 800 Amp DS-206, Main Breaker With Groundfault, Amptector Static Trip.....	5,068.37		878.37
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	527.87		
26 24 13 00-0258	EA	50 - 1,600 Amp DS-416, Main Breaker With Groundfault, Amptector Static Trip.....	9,263.45		1,473.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	879.77		
26 24 13 00-0259	EA	2,000 Amp DS-420, Main Breaker With Groundfault, Amptector Static Trip.....	13,748.78		2,470.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,466.29		
26 24 13 00-0260	EA	1,200 - 3,200 AMP DS-632, Main Breaker With Groundfault, Amptector Static Trip.....	23,717.65		3,980.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,442.08		
26 24 13 00-0261	EA	4,000 Amp DS-840, Main Breaker With Groundfault, Amptector Static Trip.....	38,606.74		6,496.26
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,060.50		
26 24 13 00-0262		DS Breakers With Amptector Static Trip, Electrically Operated (26 24 13 00-0241)			
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.					
26 24 13 00-0263	EA	50 - 800 Amp DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	5,965.41		841.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	503.47		
26 24 13 00-0264	EA	50 - 1,600 Amp DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	11,121.59		1,409.05
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	838.91		
26 24 13 00-0265	EA	2,000 Amp DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	15,861.07		2,342.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,400.46		
26 24 13 00-0266	EA	1,200 - 3,200 Amp DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	26,179.93		3,815.40
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,334.10		
26 24 13 00-0267	EA	4,000 Amp DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	40,968.50		6,542.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,899.00		
26 24 13 00-0268		Molded Case Circuit Breakers Conventional (26 24 13 00-0241)			
26 24 13 00-0269	EA	70 - 225 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	2,177.74		768.57
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	442.73		
26 24 13 00-0270	EA	125 - 400 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	3,166.18		768.57
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	481.56		
26 24 13 00-0271	EA	300 - 600 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	3,511.28		914.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	527.87		
26 24 13 00-0272	EA	400 - 800 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	4,167.85		914.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	571.85		
26 24 13 00-0273	EA	600 - 1,200 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	6,160.75		1,097.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	626.69		
26 24 13 00-0274	EA	1,000 - 2,000 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	9,920.80		1,097.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	693.16		
26 24 13 00-0275	EA	Shunt Trip, Factory Installed.....	280.28		
26 24 13 00-0276	EA	Groundfault Trip Complete Interrupting Circuit, Factory Installed.....	64.88		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt (26 24 13 00-0240)				
26 24 13 00-0278	EA	60 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	447.83	66.33
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.78	
26 24 13 00-0279	EA	100 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	528.84	88.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.79	
26 24 13 00-0280	EA	225 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	1,521.64	132.49
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.52	
26 24 13 00-0281	EA	400 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,010.79	166.25
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.74	
26 24 13 00-0282	EA	600 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,435.12	222.98
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.77	
26 24 13 00-0283	EA	800 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,941.93	285.93
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	171.56	
26 24 13 00-0284	EA	1,000 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	4,730.45	435.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	261.42	
26 24 13 00-0285	EA	1,200 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	4,730.45	435.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	261.42	
26 24 13 00-0286	EA	1,600 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,634.67	610.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	365.99	
26 24 13 00-0287	EA	2,000 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	8,288.22	914.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	548.98	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)				
26 24 13 00-0289	EA	400 Amp, Switchboard 277/480 Volt Main Breaker.....	5,366.57	397.09
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	238.27	
26 24 13 00-0290	EA	600 Amp, Switchboard 277/480 Volt Main Breaker.....	5,442.07	434.88
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	260.92	
26 24 13 00-0291	EA	800 Amp, Switchboard 277/480 Volt Main Breaker.....	5,879.42	653.56
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	392.13	
26 24 13 00-0292	EA	1,200 Amp, Switchboard 277/480 Volt Main Breaker.....	10,043.99	914.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	548.98	
26 24 13 00-0293	EA	1,600 Amp, Switchboard 277/480 Volt Main Breaker.....	10,238.32	1,012.13
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	607.28	
26 24 13 00-0294	EA	2,000 Amp, Switchboard 277/480 Volt Main Breaker.....	13,545.79	1,815.38
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,089.25	
26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)				
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)				
Note: Includes certified refurbished circuit breakers.				
26 24 13 00-0297	EA	15 - 60 Amp, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	373.83	32.94
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 13 00-0298	EA	70 - 100 Amp, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	381.60	41.17
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 13 00-0299	EA	125 - 150 Amp, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	892.68	49.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	
26 24 13 00-0300	EA	70 - 225 Amp, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,290.43	64.05
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.55	
26 24 13 00-0301	EA	125 - 400 Amp, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,813.73	79.05
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 13 00-0302	EA	300 - 600 Amp, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,369.93	92.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.76	
26 24 13 00-0303	EA	900 - 1,000 Amp, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,598.81	104.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.72	
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)				
Note: Includes certified refurbished circuit breakers.				
26 24 13 00-0305	EA	15 - 60 Amp, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	258.61	24.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 13 00-0306	EA	70 - 100 Amp, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	332.89	32.94
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 13 00-0307	EA	125 - 150 Amp, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	885.37	41.17
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 13 00-0308	EA	70 - 225 Amp, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,392.51	45.75
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.19	
26 24 13 00-0309	EA	125 - 400 Amp, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,477.61	59.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.80	
26 24 13 00-0310	EA	900 - 1,000 Amp, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,323.67	86.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.64	
26 24 13 00-0311 Meter Devices And Instrumentation (26 24 13)				
Note: Factory installed accessories.				
26 24 13 00-0312 Instrument Transformers And Metering Compartments (26 24 13 00-0311)				
26 24 13 00-0313	EA	800 Amp And Below Primary Current Transformer, With Compartment.....	338.67	
26 24 13 00-0314	EA	1,000 - 1,500 Amp Primary Current Transformer, With Compartment.....	489.19	
26 24 13 00-0315	EA	2,000 - 6,000 Amp Primary Current Transformer, With Compartment.....	576.12	
26 24 13 00-0316	EA	Potential Transformer With 200 VA Max.....	415.22	
26 24 13 00-0317	EA	5 To 800 Amp, Three Current Transformers.....	1,420.31	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0318	EA	1,000 To 1,500 Amp, Three Current Transformers.....	2,526.12	
26 24 13 00-0319	EA	2,000 To 4,000 Amp, Three Current Transformers.....	3,287.10	
26 24 13 00-0320		Instruments (26 24 13 00-0311)		
26 24 13 00-0321	EA	AC Voltmeter	461.94	
26 24 13 00-0322	EA	AC Ammeter	461.94	
26 24 13 00-0323	EA	AC Wattmeter	1,233.99	
26 24 13 00-0324	EA	Variometer	1,393.60	
26 24 13 00-0325	EA	Power Factor Meter	1,113.32	
26 24 13 00-0326	EA	Frequency Meter.....	1,228.80	
26 24 13 00-0327	EA	AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,563.58	
26 24 13 00-0328	EA	AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2	2,615.91	
26 24 13 00-0329	EA	Weatherproof, Modify Meter	2,526.07	
26 24 13 00-0330	EA	Control Switch Resistor Type 130 V	59.38	
26 24 13 00-0331	EA	Metering Instrument Volt, Amp And Watt Hour	3,155.45	
26 24 16		Panelboards (26 24)		
26 24 16 00-0001		Branch Circuit Panelboard (26 24 16) Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
26 24 16 00-0002		Assembled Lighting And Power Panelboards (26 24 16 00-0001) Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
26 24 16 00-0003		120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards (26 24 16 00- 0002)		
26 24 16 00-0004	EA	100 Amp Rating, 8 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity	968.39	260.77
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0005	EA	100 Amp Rating, 10 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,101.84	260.77
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0006	EA	100 Amp Rating, 12 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,252.11	361.41
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0007	EA	100 Amp Rating, 14 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,404.08	361.41
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0008	EA	100 Amp Rating, 16 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,547.18	452.91
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0009	EA	100 Amp Rating, 18 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity	1,694.00	452.91
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0010	EA	100 Amp Rating, 20 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity	1,835.84	521.53
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0011	EA	225 Amp Rating, 22 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	2,206.35	667.92
		For NEMA 3R Panelboard, Add	925.34	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0012	EA	225 Amp Rating, 24 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	2,323.17	667.92
		For NEMA 3R Panelboard, Add	925.34	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0013	EA	225 Amp Rating, 26 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	2,437.73	764.00
		For NEMA 3R Panelboard, Add	925.34	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0014	EA	225 Amp Rating, 28 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity	2,622.31	764.00
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0015	EA	225 Amp Rating, 30 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity	2,735.94	860.06
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0016	EA	225 Amp Rating, 32 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity	2,905.06	860.06
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0017	EA	225 Amp Rating, 34 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity	3,008.89	951.57
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0018	EA	225 Amp Rating, 36 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity	3,178.35	951.57
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0019	EA	225 Amp Rating, 38 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,334.48	1,052.21
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0020	EA	225 Amp Rating, 40 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	3,442.15	1,052.21
		For NEMA 3R Panelboard, Add	1,137.64	
		For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0021	EA	225 Amp Rating, 42 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	3,599.85	1,052.21
		For NEMA 3R Panelboard, Add	1,137.64	
		For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0022 120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0022)				
26 24 16 00-0023	EA	50 Amp Rating, 8 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity.....	1,144.69	251.62
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0024	EA	50 Amp Rating, 10 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity	1,280.12	251.62
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0025	EA	100 Amp Rating, 12 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity	1,593.04	430.03
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0026	EA	100 Amp Rating, 14 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity	1,806.26	430.03
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0027	EA	100 Amp Rating, 16 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity	1,952.25	526.11
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0028	EA	100 Amp Rating, 18 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity	2,104.47	526.11
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0029	EA	100 Amp Rating, 20 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity	2,239.68	631.33
		For NEMA 3R Panelboard, Add	841.43	
26 24 16 00-0030	EA	225 Amp Rating, 22 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity	2,708.92	631.33
		For NEMA 3R Panelboard, Add	925.34	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0031	EA	225 Amp Rating, 24 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity	2,829.52	773.15
		For NEMA 3R Panelboard, Add	925.34	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0032	EA	225 Amp Rating, 26 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity	2,960.50	773.15
		For NEMA 3R Panelboard, Add	925.34	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0033	EA	225 Amp Rating, 28 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	3,103.94	869.22
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0034	EA	225 Amp Rating, 30 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	3,220.29	869.22
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0035	EA	225 Amp Rating, 32 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	3,344.33	951.57
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0036	EA	225 Amp Rating, 34 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	3,477.23	951.57
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0037	EA	225 Amp Rating, 36 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	3,620.46	1,125.41
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0038	EA	225 Amp Rating, 38 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	3,775.75	1,125.41
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0039	EA	225 Amp Rating, 40 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity	3,945.32	1,125.41
		For NEMA 3R Panelboard, Add	1,137.64	
		For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0040	EA	225 Amp Rating, 42 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity	4,050.30	1,189.45
		For NEMA 3R Panelboard, Add	1,137.64	
		For Door-In-Door (Hinged) Trim Front, Add	147.59	

26 24 16 00-0041 120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0042	EA		100 Amp Rating, 8 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	1,168.26 841.43	297.36
26 24 16 00-0043	EA		100 Amp Rating, 10 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	1,312.09 841.43	297.36
26 24 16 00-0044	EA		100 Amp Rating, 12 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	1,475.18 841.43	398.01
26 24 16 00-0045	EA		100 Amp Rating, 14 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	1,646.29 841.43	398.01
26 24 16 00-0046	EA		100 Amp Rating, 16 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	1,799.83 841.43	489.50
26 24 16 00-0047	EA		100 Amp Rating, 18 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	1,963.92 841.43	489.50
26 24 16 00-0048	EA		100 Amp Rating, 20 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,118.39 841.43	581.01
26 24 16 00-0049	EA		100 Amp Rating, 22 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,278.54 925.34	581.01
26 24 16 00-0050	EA		100 Amp Rating, 24 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,426.91 925.34	681.65
26 24 16 00-0051	EA		100 Amp Rating, 26 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,597.79 925.34	681.65
26 24 16 00-0052	EA		100 Amp Rating, 28 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,772.32 925.34	786.88
26 24 16 00-0053	EA		100 Amp Rating, 30 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,943.15 925.34	786.88
26 24 16 00-0054	EA		225 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,285.84 1,093.05	951.57
26 24 16 00-0055	EA		225 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,403.05 1,093.05	951.57
26 24 16 00-0056	EA		225 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,602.09 1,093.05	1,056.78
26 24 16 00-0057	EA		225 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,783.40 1,093.05	1,056.78
26 24 16 00-0058	EA		225 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,911.04 1,137.64	1,152.86
26 24 16 00-0059	EA		225 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	4,092.90 1,137.64	1,152.86
26 24 16 00-0060	EA		400 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,971.02 1,093.05	1,022.93
26 24 16 00-0061	EA		400 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	4,100.33 1,093.05	1,075.09
26 24 16 00-0062	EA		400 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	4,308.45 1,093.05	1,132.28
26 24 16 00-0063	EA		400 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	4,503.63 1,093.05	1,198.61
26 24 16 00-0064	EA		400 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	4,639.33 1,137.64	1,235.20

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0065	EA	400 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,859.05 1,137.64 147.59	1,310.69
26 24 16 00-0066 120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)				
26 24 16 00-0067	EA	50 Amp Rating, 8 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	1,385.91 841.43	288.21
26 24 16 00-0068	EA	50 Amp Rating, 10 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	1,531.60 841.43	288.21
26 24 16 00-0069	EA	50 Amp Rating, 12 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	1,704.50 841.43	379.71
26 24 16 00-0070	EA	50 Amp Rating, 14 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	1,943.32 841.43	379.71
26 24 16 00-0071	EA	100 Amp Rating 16 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,300.77 841.43	571.85
26 24 16 00-0072	EA	100 Amp Rating, 18 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,450.67 841.43	571.85
26 24 16 00-0073	EA	100 Amp Rating, 20 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,613.20 841.43	667.92
26 24 16 00-0074	EA	100 Amp Rating, 22 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,748.90 925.34 67.62	667.92
26 24 16 00-0075	EA	100 Amp Rating, 24 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,931.12 925.34 67.62	773.15
26 24 16 00-0076	EA	100 Amp Rating, 26 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,056.34 925.34 67.62	773.15
26 24 16 00-0077	EA	100 Amp Rating, 28 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,257.58 925.34 67.62	869.22
26 24 16 00-0078	EA	100 Amp Rating, 30 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,429.74 925.34 67.62	869.22
26 24 16 00-0079	EA	225 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,028.87 1,093.05 115.48	1,006.46
26 24 16 00-0080	EA	225 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,207.91 1,093.05 115.48	1,061.36
26 24 16 00-0081	EA	225 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,284.52 1,093.05 115.48	1,061.36
26 24 16 00-0082	EA	225 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,485.73 1,093.05 115.48	1,198.61
26 24 16 00-0083	EA	225 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,625.50 1,137.64 147.59	1,198.61
26 24 16 00-0084	EA	225 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,718.47 1,137.64 147.59	1,198.61
26 24 16 00-0085	EA	400 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,734.50 1,093.05 115.48	1,102.54
26 24 16 00-0086	EA	400 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,930.43 1,093.05 115.48	1,166.58
26 24 16 00-0087	EA	400 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,009.67 1,093.05 115.48	1,198.61



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 24 16 00-0088	EA 400 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity.....	5,226.95		1,271.80
	For NEMA 3R Panelboard, Add	1,093.05		
	For Door-In-Door (Hinged) Trim Front, Add	115.48		
26 24 16 00-0089	EA 400 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity.....	5,365.96		1,308.40
	For NEMA 3R Panelboard, Add	1,137.64		
	For Door-In-Door (Hinged) Trim Front, Add	147.59		
26 24 16 00-0090	EA 400 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity.....	5,497.96		1,354.15
	For NEMA 3R Panelboard, Add	1,137.64		
	For Door-In-Door (Hinged) Trim Front, Add	147.59		
26 24 16 00-0091 480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)				
26 24 16 00-0092	EA 100 Amp Rating, 8 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity.....	1,315.57		292.79
	For NEMA 3R Panelboard, Add	841.43		
26 24 16 00-0093	EA 100 Amp Rating, 10 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,505.22		292.79
	For NEMA 3R Panelboard, Add	841.43		
26 24 16 00-0094	EA 100 Amp Rating, 12 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,687.04		402.59
	For NEMA 3R Panelboard, Add	841.43		
26 24 16 00-0095	EA 100 Amp Rating, 14 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,876.66		402.59
	For NEMA 3R Panelboard, Add	841.43		
26 24 16 00-0096	EA 100 Amp Rating, 16 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	2,053.49		503.23
	For NEMA 3R Panelboard, Add	841.43		
26 24 16 00-0097	EA 100 Amp Rating, 18 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity.....	2,239.83		503.23
	For NEMA 3R Panelboard, Add	841.43		
26 24 16 00-0098	EA 100 Amp Rating, 20 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity.....	2,434.33		608.45
	For NEMA 3R Panelboard, Add	841.43		
26 24 16 00-0099	EA 100 Amp Rating, 22 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,612.52		608.45
	For NEMA 3R Panelboard, Add	925.34		
	For Door-In-Door (Hinged) Trim Front, Add	67.62		
26 24 16 00-0100	EA 100 Amp Rating, 24 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,808.48		722.83
	For NEMA 3R Panelboard, Add	925.34		
	For Door-In-Door (Hinged) Trim Front, Add	67.62		
26 24 16 00-0101	EA 100 Amp Rating, 26 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,997.66		722.83
	For NEMA 3R Panelboard, Add	925.34		
	For Door-In-Door (Hinged) Trim Front, Add	67.62		
26 24 16 00-0102	EA 100 Amp Rating, 28 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,171.54		823.47
	For NEMA 3R Panelboard, Add	925.34		
	For Door-In-Door (Hinged) Trim Front, Add	67.62		
26 24 16 00-0103	EA 100 Amp Rating, 30 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,357.89		823.47
	For NEMA 3R Panelboard, Add	925.34		
	For Door-In-Door (Hinged) Trim Front, Add	67.62		
26 24 16 00-0104	EA 225 Amp Rating, 32 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,756.60		1,001.89
	For NEMA 3R Panelboard, Add	1,093.05		
	For Door-In-Door (Hinged) Trim Front, Add	115.48		
26 24 16 00-0105	EA 225 Amp Rating, 34 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,942.74		1,001.89
	For NEMA 3R Panelboard, Add	1,093.05		
	For Door-In-Door (Hinged) Trim Front, Add	115.48		
26 24 16 00-0106	EA 225 Amp Rating, 36 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,140.93		1,097.96
	For NEMA 3R Panelboard, Add	1,093.05		
	For Door-In-Door (Hinged) Trim Front, Add	115.48		
26 24 16 00-0107	EA 225 Amp Rating, 38 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,285.45		1,097.96
	For NEMA 3R Panelboard, Add	1,093.05		
	For Door-In-Door (Hinged) Trim Front, Add	115.48		
26 24 16 00-0108	EA 225 Amp Rating, 40 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	4,506.05		1,212.33
	For NEMA 3R Panelboard, Add	1,137.64		
	For Door-In-Door (Hinged) Trim Front, Add	147.59		
26 24 16 00-0109	EA 225 Amp Rating, 42 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	4,663.36		1,212.33
	For NEMA 3R Panelboard, Add	1,137.64		
	For Door-In-Door (Hinged) Trim Front, Add	147.59		
26 24 16 00-0110 480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)				

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0111	EA	50 Amp Rating, 8 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	1,672.23 841.43	311.09
26 24 16 00-0112	EA	50 Amp Rating, 10 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	1,857.54 841.43	338.54
26 24 16 00-0113	EA	50 Amp Rating, 12 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,044.91 841.43	420.88
26 24 16 00-0114	EA	100 Amp Rating, 14 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,458.46 841.43	512.38
26 24 16 00-0115	EA	100 Amp Rating, 16 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,637.62 841.43	567.28
26 24 16 00-0116	EA	100 Amp Rating, 18 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,800.69 841.43	613.02
26 24 16 00-0117	EA	100 Amp Rating, 20 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,980.68 841.43	667.92
26 24 16 00-0118	EA	100 Amp Rating, 22 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	3,153.77 925.34 67.62	722.83
26 24 16 00-0119	EA	100 Amp Rating, 24 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	3,311.93 925.34 67.62	768.57
26 24 16 00-0120	EA	100 Amp Rating, 26 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	3,481.80 925.34 67.62	814.32
26 24 16 00-0121	EA	100 Amp Rating, 28 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	3,665.82 925.34 67.62	869.22
26 24 16 00-0122	EA	100 Amp Rating, 30 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	3,867.17 925.34 67.62	937.84
26 24 16 00-0123	EA	225 Amp Rating, 32 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	4,856.45 1,093.05 115.48	1,043.06
26 24 16 00-0124	EA	225 Amp Rating, 34 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	5,049.43 1,093.05 115.48	1,107.10
26 24 16 00-0125	EA	225 Amp Rating, 36 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	5,185.90 1,093.05 115.48	1,134.56
26 24 16 00-0126	EA	225 Amp Rating, 38 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	5,403.20 1,093.05 115.48	1,207.76
26 24 16 00-0127	EA	225 Amp Rating, 40 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	5,553.56 1,137.64 147.59	1,253.50
26 24 16 00-0128	EA	225 Amp Rating, 42 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	5,709.58 1,137.64 147.59	1,292.85
26 24 16 00-0129		277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0130	EA	100 Amp Rating , 8 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	1,598.73 841.43	320.24
26 24 16 00-0131	EA	100 Amp Rating, 10 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	1,809.95 841.43	320.24
26 24 16 00-0132	EA	100 Amp Rating, 12 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,015.60 841.43	425.46
26 24 16 00-0133	EA	100 Amp Rating, 14 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,222.97 841.43	425.46
26 24 16 00-0134	EA	100 Amp Rating, 16 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity..... <i>For NEMA 3R Panelboard, Add</i>	2,433.76 841.43	526.11



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 24 16 00-0135	EA 100 Amp Rating, 18 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity For NEMA 3R Panelboard, Add	2,640.13	841.43	526.11	
26 24 16 00-0136	EA 100 Amp Rating, 20 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity For NEMA 3R Panelboard, Add	2,849.94	841.43	631.33	
26 24 16 00-0137	EA 100 Amp Rating, 22 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity For NEMA 3R Panelboard, Add	3,058.85	925.34	631.33	
	For Door-In-Door (Hinged) Trim Front, Add	67.62			
26 24 16 00-0138	EA 100 Amp Rating, 24 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity For NEMA 3R Panelboard, Add	3,287.45	925.34	741.12	
	For Door-In-Door (Hinged) Trim Front, Add	67.62			
26 24 16 00-0139	EA 100 Amp Rating, 26 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity For NEMA 3R Panelboard, Add	3,478.35	925.34	741.12	
	For Door-In-Door (Hinged) Trim Front, Add	67.62			
26 24 16 00-0140	EA 100 Amp Rating, 28 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity For NEMA 3R Panelboard, Add	3,680.26	925.34	745.70	
	For Door-In-Door (Hinged) Trim Front, Add	67.62			
26 24 16 00-0141	EA 100 Amp Rating, 30 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity For NEMA 3R Panelboard, Add	3,895.45	925.34	745.70	
	For Door-In-Door (Hinged) Trim Front, Add	67.62			
26 24 16 00-0142	EA 225 Amp Rating, 32 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity For NEMA 3R Panelboard, Add	4,438.60	1,093.05	1,033.92	
	For Door-In-Door (Hinged) Trim Front, Add	115.48			
26 24 16 00-0143	EA 225 Amp Rating, 34 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity For NEMA 3R Panelboard, Add	4,658.66	1,093.05	1,033.92	
	For Door-In-Door (Hinged) Trim Front, Add	115.48			
26 24 16 00-0144	EA 225 Amp Rating, 36 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity For NEMA 3R Panelboard, Add	4,827.79	1,093.05	1,088.81	
	For Door-In-Door (Hinged) Trim Front, Add	115.48			
26 24 16 00-0145	EA 225 Amp Rating, 38 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity For NEMA 3R Panelboard, Add	5,068.42	1,093.05	1,162.01	
	For Door-In-Door (Hinged) Trim Front, Add	115.48			
26 24 16 00-0146	EA 225 Amp Rating, 40 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity For NEMA 3R Panelboard, Add	5,249.21	1,137.64	1,162.01	
	For Door-In-Door (Hinged) Trim Front, Add	147.59			
26 24 16 00-0147	EA 225 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity For NEMA 3R Panelboard, Add	5,516.66	1,137.64	1,271.80	
	For Door-In-Door (Hinged) Trim Front, Add	147.59			
26 24 16 00-0148	277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)				
26 24 16 00-0149	EA 50 Amp Rating, 8 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity For NEMA 3R Panelboard, Add	2,074.04	841.43	393.44	
26 24 16 00-0150	EA 50 Amp Rating, 10 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity For NEMA 3R Panelboard, Add	2,290.35	841.43	393.44	
26 24 16 00-0151	EA 50 Amp Rating, 12 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity For NEMA 3R Panelboard, Add	2,498.36	841.43	521.53	
26 24 16 00-0152	EA 100 Amp Rating, 14 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity For NEMA 3R Panelboard, Add	2,976.19	841.43	521.53	
26 24 16 00-0153	EA 100 Amp Rating, 16 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity For NEMA 3R Panelboard, Add	3,177.02	841.43	658.78	
26 24 16 00-0154	EA 100 Amp Rating, 18 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity For NEMA 3R Panelboard, Add	3,377.52	841.43	658.78	
26 24 16 00-0155	EA 100 Amp Rating, 20 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity For NEMA 3R Panelboard, Add	3,571.13	841.43	754.85	
26 24 16 00-0156	EA 100 Amp Rating, 22 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity For NEMA 3R Panelboard, Add	3,749.80	925.34	754.85	
	For Door-In-Door (Hinged) Trim Front, Add	67.62			
26 24 16 00-0157	EA 100 Amp Rating, 24 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity For NEMA 3R Panelboard, Add	3,940.18	925.34	860.06	
	For Door-In-Door (Hinged) Trim Front, Add	67.62			

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0158	EA	100 Amp Rating, 26 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity	4,144.70	860.06
		For NEMA 3R Panelboard, Add	925.34	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0159	EA	100 Amp Rating, 28 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity	4,320.10	951.57
		For NEMA 3R Panelboard, Add	925.34	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0160	EA	100 Amp Rating, 30 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity	4,504.35	951.57
		For NEMA 3R Panelboard, Add	925.34	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0161	EA	225 Amp Rating, 32 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	5,875.44	1,125.41
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0162	EA	225 Amp Rating, 34 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	6,099.77	1,125.41
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0163	EA	225 Amp Rating, 36 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	6,264.28	1,230.62
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0164	EA	225 Amp Rating, 38 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	6,515.45	1,230.62
		For NEMA 3R Panelboard, Add	1,093.05	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0165	EA	225 Amp Rating, 40 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity	6,695.40	1,345.00
		For NEMA 3R Panelboard, Add	1,137.64	
		For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0166	EA	225 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity	6,881.61	1,345.00
		For NEMA 3R Panelboard, Add	1,137.64	
		For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0167	EA	400 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity	8,159.76	1,497.80
		For NEMA 3R Panelboard, Add	1,137.64	
		For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0168	EA	600 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >400 To 600 Amp Main Breaker, 54 Circuit Capacity	9,931.03	1,797.90
		For NEMA 3R Panelboard, Add	1,137.64	
		For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0169		Unassembled Lighting And Power Panelboards (26 24 16 00-0001) Note: Listed panelboards include the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device).		
26 24 16 00-0170		240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171		Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0172	EA	100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	508.09	
26 24 16 00-0173	EA	100 Amp Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	584.80	
26 24 16 00-0174	EA	225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	797.18	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0175	EA	225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	920.31	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0176	EA	225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,041.59	
		For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0177	EA	400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,165.28	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0178	EA	400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,265.27	
		For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0179	EA	400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,385.75	
		For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0180	EA	600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,510.35	
		For Door-In-Door (Hinged) Trim Front, Add	67.62	



Electrical		26
Low-Voltage Electrical Distribution		26 20
Switchboards And Panelboards		26 24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0181	EA	600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,610.07	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0182	EA	600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,759.06	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	147.59	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase				
Unassembled Panelboards (26 24 16 00-0170)				
26 24 16 00-0184	EA	100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	756.09	
26 24 16 00-0185	EA	100 Amp Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	857.01	
26 24 16 00-0186	EA	225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,373.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0187	EA	225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,525.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0188	EA	225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,668.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	147.59	
26 24 16 00-0189	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,891.32	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0190	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,062.77	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0191	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,217.43	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	147.59	
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase				
Unassembled Panelboards (26 24 16 00-0170)				
26 24 16 00-0193	EA	100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,025.49	
26 24 16 00-0194	EA	100 Amp Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,096.29	
26 24 16 00-0195	EA	225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,296.35	
26 24 16 00-0196	EA	225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,417.01	
26 24 16 00-0197	EA	225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,528.93	
26 24 16 00-0198	EA	400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,748.22	
26 24 16 00-0199	EA	400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,841.80	
26 24 16 00-0200	EA	400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,956.37	
26 24 16 00-0201	EA	600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,126.31	
26 24 16 00-0202	EA	600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,222.39	
26 24 16 00-0203	EA	600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,362.20	
26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1				
Phase Unassembled Panelboards (26 24 16 00-0170)				
26 24 16 00-0205	EA	100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,267.58	
26 24 16 00-0206	EA	100 Amp Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,362.09	
26 24 16 00-0207	EA	225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,968.57	
26 24 16 00-0208	EA	225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,108.73	
26 24 16 00-0209	EA	225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,242.87	
26 24 16 00-0210	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,453.06	
26 24 16 00-0211	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,618.60	
26 24 16 00-0212	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,771.79	
26 24 16 00-0213 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0169)				
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers				

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0214	Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)			
26 24 16 00-0215	EA	100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	572.82	
26 24 16 00-0216	EA	100 Amp Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	673.81	
26 24 16 00-0217	EA	100 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	758.77	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0218	EA	225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	859.63	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0219	EA	225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	989.57	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0220	EA	225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,096.03	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	147.59	
26 24 16 00-0221	EA	400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,263.88	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0222	EA	400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,362.11	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0223	EA	400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,470.63	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	147.59	
26 24 16 00-0224	EA	600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,619.79	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0225	EA	600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,787.42	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0226	EA	600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,113.59	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	147.59	
26 24 16 00-0227	Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)			
26 24 16 00-0228	EA	100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	886.39	
26 24 16 00-0229	EA	100 Amp Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	999.83	
26 24 16 00-0230	EA	100 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,148.12	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0231	EA	225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,700.03	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0232	EA	225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,841.07	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0233	EA	225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,973.11	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	147.59	
26 24 16 00-0234	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,729.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0235	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,888.64	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0236	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,020.94	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	147.59	
26 24 16 00-0237	Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)			
26 24 16 00-0238	EA	100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,090.22	
26 24 16 00-0239	EA	100 Amp Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,185.29	
26 24 16 00-0240	EA	100 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,263.85	
26 24 16 00-0241	EA	225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,358.80	
26 24 16 00-0242	EA	225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,486.28	
26 24 16 00-0243	EA	225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,583.37	
26 24 16 00-0244	EA	400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,846.81	



Electrical		26	26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0245 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,938.64	
26 24 16 00-0246 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,041.25	
26 24 16 00-0247 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,235.74	
26 24 16 00-0248 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,392.04	
26 24 16 00-0249 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,718.21	
26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)		
26 24 16 00-0251 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,397.88	
26 24 16 00-0252 EA 100 Amp Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,504.91	
26 24 16 00-0253 EA 100 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,649.75	
26 24 16 00-0254 EA 225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,294.80	
26 24 16 00-0255 EA 225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,424.00	
26 24 16 00-0256 EA 225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,547.18	
26 24 16 00-0257 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,807.44	
26 24 16 00-0258 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,972.12	
26 24 16 00-0259 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	4,113.10	
26 24 16 00-0260 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0169)		
Note: As manufactured by Square D or equal.		
26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0262 EA 125 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	820.21	
26 24 16 00-0263 EA 125 Amp Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	900.52	
26 24 16 00-0264 EA 250 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,243.95	
For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0265 EA 250 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,387.28	
For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0266 EA 250 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,511.27	
For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0267 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,508.66	
For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0268 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,590.25	
For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0269 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,727.79	
For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0270 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,828.61	
For Door-In-Door (Hinged) Trim Front, Add	67.62	
26 24 16 00-0271 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,960.12	
For Door-In-Door (Hinged) Trim Front, Add	115.48	
26 24 16 00-0272 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,140.75	
For Door-In-Door (Hinged) Trim Front, Add	147.59	
26 24 16 00-0273 Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0274 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,679.23	
26 24 16 00-0275 EA 100 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,732.23	
26 24 16 00-0276 EA 125 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,880.74	
26 24 16 00-0277 EA 125 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,982.18	
For Door-In-Door (Hinged) Trim Front, Add	67.62	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0278	EA	125 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,184.94	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0279	EA	250 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,839.54	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0280	EA	250 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,965.34	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0281	EA	250 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,127.68	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	147.59	
26 24 16 00-0282	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,230.20	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.62	
26 24 16 00-0283	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,400.74	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	115.48	
26 24 16 00-0284	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,555.12	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	147.59	
26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)				
26 24 16 00-0286	EA	125 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,319.87	
26 24 16 00-0287	EA	125 Amp Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,400.18	
26 24 16 00-0288	EA	250 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,731.79	
26 24 16 00-0289	EA	250 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,960.86	
26 24 16 00-0290	EA	250 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,074.98	
26 24 16 00-0291	EA	400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,072.38	
26 24 16 00-0292	EA	400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,139.19	
26 24 16 00-0293	EA	400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,255.54	
26 24 16 00-0294	EA	600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,405.64	
26 24 16 00-0295	EA	600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,525.09	
26 24 16 00-0296	EA	600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,679.77	
26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)				
26 24 16 00-0298	EA	100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,285.33	
26 24 16 00-0299	EA	100 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,338.33	
26 24 16 00-0300	EA	125 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,373.01	
26 24 16 00-0301	EA	125 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,470.01	
26 24 16 00-0302	EA	125 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,758.52	
26 24 16 00-0303	EA	250 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,403.26	
26 24 16 00-0304	EA	250 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,514.27	
26 24 16 00-0305	EA	250 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,655.43	
26 24 16 00-0306	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,757.94	
26 24 16 00-0307	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,914.96	
26 24 16 00-0308	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,067.27	
26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0169)				
		Note: As manufactured by Square D or equal.		
26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)				
26 24 16 00-0311	EA	125 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	853.72	
26 24 16 00-0312	EA	125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	934.52	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0313 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	1,081.53 67.62	
26 24 16 00-0314 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	1,293.26 67.62	
26 24 16 00-0315 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	1,437.66 115.48	
26 24 16 00-0316 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	1,560.70 147.59	
26 24 16 00-0317 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	1,573.82 67.62	
26 24 16 00-0318 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	1,671.07 115.48	
26 24 16 00-0319 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	1,807.56 147.59	
26 24 16 00-0320 EA 600 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	1,908.55 67.62	
26 24 16 00-0321 EA 600 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,040.70 115.48	
26 24 16 00-0322 EA 600 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,222.00 147.59	
26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)		
26 24 16 00-0324 EA 100 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	1,851.70	
26 24 16 00-0325 EA 100 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	1,905.19	
26 24 16 00-0326 EA 100 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,064.59 67.62	
26 24 16 00-0327 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,117.81	
26 24 16 00-0328 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,219.67 67.62	
26 24 16 00-0329 EA 125 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,421.91 115.48	
26 24 16 00-0330 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,117.62 67.62	
26 24 16 00-0331 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,244.94 115.48	
26 24 16 00-0332 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,405.57 147.59	
26 24 16 00-0333 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,563.41 67.62	
26 24 16 00-0334 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,735.60 115.48	
26 24 16 00-0335 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,889.88 147.59	
26 24 16 00-0336 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)		
26 24 16 00-0337 EA 125 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	1,353.38	
26 24 16 00-0338 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	1,434.18	
26 24 16 00-0339 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	1,573.80	
26 24 16 00-0340 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	1,781.10	
26 24 16 00-0341 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,011.24	
26 24 16 00-0342 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,124.42	
26 24 16 00-0343 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,139.02	
26 24 16 00-0344 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,220.00	
26 24 16 00-0345 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,335.31	
26 24 16 00-0346 EA 600 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,485.57	
26 24 16 00-0347 EA 600 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,605.41	
26 24 16 00-0348 EA 600 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,760.09	
26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)		
26 24 16 00-0350 EA 100 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,339.53	
26 24 16 00-0351 EA 100 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,393.03	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0352	EA	100 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,638.16	
26 24 16 00-0353	EA	125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,610.07	
26 24 16 00-0354	EA	125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,707.50	
26 24 16 00-0355	EA	125 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,995.49	
26 24 16 00-0356	EA	250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,681.34	
26 24 16 00-0357	EA	250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,793.88	
26 24 16 00-0358	EA	250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,933.32	
26 24 16 00-0359	EA	400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,091.15	
26 24 16 00-0360	EA	400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,249.55	
26 24 16 00-0361	EA	400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,401.36	
26 24 16 00-0362		600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0169) Note: Square D I-Line or equal.		
26 24 16 00-0363		Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0362)		
26 24 16 00-0364	EA	400 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,466.29	272.27
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	163.37	
26 24 16 00-0365	EA	400 Amp Rating, 45" Breaker Mounted Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,713.29	272.18
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	163.32	
26 24 16 00-0366	EA	400 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,899.29	272.18
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	163.32	
26 24 16 00-0367	EA	600 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,177.57	447.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.21	
26 24 16 00-0368	EA	600 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,321.53	447.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.21	
26 24 16 00-0369	EA	600 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,479.50	447.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	268.21	
26 24 16 00-0370	EA	800 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,687.89	594.23
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	356.52	
26 24 16 00-0371	EA	800 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,826.55	595.99
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	357.61	
26 24 16 00-0372	EA	800 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,882.81	594.23
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	356.52	
26 24 16 00-0373	EA	800 Amp Rating, 99" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,339.53	594.23
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	356.52	
26 24 16 00-0374	EA	1,200 Amp Rating, 27" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,362.15	894.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	536.42	
26 24 16 00-0375	EA	1,200 Amp Rating, 45" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,673.00	894.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	536.42	
26 24 16 00-0376	EA	1,200 Amp Rating, 63" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,927.16	894.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	536.42	
26 24 16 00-0377	EA	1,200 Amp Rating, 99" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,237.37	894.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	536.42	
26 24 16 00-0378		Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0362)		
26 24 16 00-0379	EA	225 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,813.55	278.05
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.82	
26 24 16 00-0380	EA	400 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,689.58	315.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189.22	
26 24 16 00-0381	EA	400 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,869.21	315.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189.22	



Electrical			26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0382 EA 400 Amp Rating, 81" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,397.91	315.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	189.22	
26 24 16 00-0383 EA 600 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,744.51	516.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	310.19	
26 24 16 00-0384 EA 600 Amp Rating, 72" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,041.54	518.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	311.01	
26 24 16 00-0385 EA 600 Amp Rating, 72" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,285.95	516.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	310.19	
26 24 16 00-0386 EA 800 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,266.16	691.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	414.68	
26 24 16 00-0387 EA 800 Amp Rating, 72" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,617.36	688.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	413.21	
26 24 16 00-0388 EA 800 Amp Rating, 72" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,967.70	688.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	413.21	
26 24 16 00-0389 Branch Circuit Breakers (26 24 16 00-0001)		
Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.		
26 24 16 00-0390 Branch Circuit Breakers 10,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
Note: Includes connection of electrical wire.		
26 24 16 00-0391 EA 1 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	42.52	16.47
For Bolt-On, Add	11.72	
For Installation In New Panelboard, Deduct	-9.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0392 EA 1 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	42.52	16.47
For Bolt-On, Add	11.72	
For Installation In New Panelboard, Deduct	-9.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0393 EA 1 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	59.44	20.58
For Bolt-On, Add	15.44	
For Installation In New Panelboard, Deduct	-11.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 24 16 00-0394 EA 1 Pole GFI, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	81.14	20.13
For Bolt-On, Add	17.83	
For Installation In New Panelboard, Deduct	-10.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.18	
26 24 16 00-0395 EA 1 Pole GFI, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amp Interrupting Capacity.....	108.05	20.13
For Bolt-On, Add	21.19	
For Installation In New Panelboard, Deduct	-10.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.18	
26 24 16 00-0396 EA 1 Pole GFI, 120/240 Volt, 15-30 Amp, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amp Interrupting Capacity.....	123.40	20.13
For Bolt-On, Add	23.11	
For Installation In New Panelboard, Deduct	-10.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.18	
26 24 16 00-0397 EA 1 Pole GFI, 120/240 Volt, 15-20 Amp, "Arc Fault" Circuit Breaker, 10,000 Amp Interrupting Capacity.....	66.32	20.13
For Bolt-On, Add	15.98	
For Installation In New Panelboard, Deduct	-10.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.18	
26 24 16 00-0398 EA 2 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	68.59	24.70
For Bolt-On, Add	18.18	
For Installation In New Panelboard, Deduct	-13.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0399 EA 2 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	68.59	24.70
For Bolt-On, Add	18.18	
For Installation In New Panelboard, Deduct	-13.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0400 EA 2 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	100.58	32.94
For Bolt-On, Add	25.38	
For Installation In New Panelboard, Deduct	-18.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0401 EA 2 Pole, 120/240 Volt, 110-125 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	157.67	41.17
For Bolt-On, Add	35.72	
For Installation In New Panelboard, Deduct	-22.88	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0402	EA	2 Pole, 120/240 Volt, 150 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	183.69	45.75
		For Bolt-On, Add	40.57	
		For Installation In New Panelboard, Deduct	-25.16	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.19	
26 24 16 00-0403	EA	2 Pole GFI, 120/240 Volt, 15-50 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	149.93	29.28
		For Bolt-On, Add	30.27	
		For Installation In New Panelboard, Deduct	-16.47	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.76	
26 24 16 00-0404	EA	2 Pole, GFI, 120/240 Volt, 15-50 Amp, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amp Interrupting Capacity.....	193.95	29.28
		For Bolt-On, Add	35.77	
		For Installation In New Panelboard, Deduct	-16.47	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.76	
26 24 16 00-0405	EA	3 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	121.11	32.94
		For Bolt-On, Add	27.95	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0406	EA	3 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	121.11	32.94
		For Bolt-On, Add	27.95	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0407	EA	3 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	157.41	41.17
		For Bolt-On, Add	35.69	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0408	EA	3 Pole, 120/240 Volt, 110-125 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	229.53	49.41
		For Bolt-On, Add	47.90	
		For Installation In New Panelboard, Deduct	-27.45	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	
26 24 16 00-0409	EA	3 Pole, 120/240 Volt, 150 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	289.26	57.65
		For Bolt-On, Add	58.58	
		For Installation In New Panelboard, Deduct	-32.03	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.43	
26 24 16 00-0410		Branch Circuit Breakers 14,000 Amp Interrupting Capacity, Plug-On (26 24 16 00- 0399) Note: Includes connection of electrical wire.		
26 24 16 00-0411	EA	1 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	56.47	16.47
		For Bolt-On, Add	13.46	
		For Installation In New Panelboard, Deduct	-9.15	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0412	EA	1 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	56.47	16.47
		For Bolt-On, Add	13.46	
		For Installation In New Panelboard, Deduct	-9.15	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0413	EA	1 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	95.08	20.58
		For Bolt-On, Add	19.89	
		For Installation In New Panelboard, Deduct	-11.44	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 24 16 00-0414	EA	1 Pole GFI, 277/480 Volt, 15-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	138.50	20.13
		For Bolt-On, Add	25.00	
		For Installation In New Panelboard, Deduct	-10.98	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.18	
26 24 16 00-0415	EA	2 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	105.30	24.70
		For Bolt-On, Add	22.77	
		For Installation In New Panelboard, Deduct	-13.73	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0416	EA	2 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	105.30	24.70
		For Bolt-On, Add	22.77	
		For Installation In New Panelboard, Deduct	-13.73	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0417	EA	2 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	197.03	32.94
		For Bolt-On, Add	37.44	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0418	EA	2 Pole, 277/480 Volt, 110-125 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	265.99	41.17
		For Bolt-On, Add	49.26	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0419	EA	2 Pole, 277/480 Volt, 150 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	.....	380.84	45.75
		For Bolt-On, Add		65.22	
		For Installation In New Panelboard, Deduct		-25.16	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		30.19	
26 24 16 00-0420	EA	3 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	.....	163.70	32.94
		For Bolt-On, Add		33.27	
		For Installation In New Panelboard, Deduct		-18.30	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		21.96	
26 24 16 00-0421	EA	3 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	.....	163.70	32.94
		For Bolt-On, Add		33.27	
		For Installation In New Panelboard, Deduct		-18.30	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		21.96	
26 24 16 00-0422	EA	3 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	.....	239.50	41.17
		For Bolt-On, Add		45.95	
		For Installation In New Panelboard, Deduct		-22.88	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		27.45	
26 24 16 00-0423	EA	3 Pole, 277/480 Volt, 110-125 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	.....	334.69	49.41
		For Bolt-On, Add		61.05	
		For Installation In New Panelboard, Deduct		-27.45	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		32.94	
26 24 16 00-0424	EA	3 Pole, 277/480 Volt, 150 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	.....	505.84	57.65
		For Bolt-On, Add		85.65	
		For Installation In New Panelboard, Deduct		-32.03	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		38.43	
26 24 16 00-0425	EA	3 Pole, 277/480 Volt, 175 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	.....	580.61	61.77
		For Bolt-On, Add		96.60	
		For Installation In New Panelboard, Deduct		-34.31	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		41.18	
26 24 16 00-0426	EA	3 Pole, 277/480 Volt, 200 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	.....	623.45	65.87
		For Bolt-On, Add		103.55	
		For Installation In New Panelboard, Deduct		-36.60	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		43.92	
26 24 16 00-0427	EA	3 Pole, 277/480 Volt, 225 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	.....	732.50	69.99
		For Bolt-On, Add		118.78	
		For Installation In New Panelboard, Deduct		-38.89	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		46.67	
26 24 16 00-0428	Branch Circuit Breakers 18,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)				
		Note: Includes connection of electrical wire.			
26 24 16 00-0429	EA	1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	.....	65.63	16.47
		For Bolt-On, Add		14.61	
		For Installation In New Panelboard, Deduct		-9.15	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.98	
26 24 16 00-0430	EA	1 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	.....	65.63	16.47
		For Bolt-On, Add		14.61	
		For Installation In New Panelboard, Deduct		-9.15	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.98	
26 24 16 00-0431	EA	1 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	.....	104.14	20.58
		For Bolt-On, Add		21.02	
		For Installation In New Panelboard, Deduct		-11.44	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.73	
26 24 16 00-0432	EA	2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	.....	129.18	24.70
		For Bolt-On, Add		25.76	
		For Installation In New Panelboard, Deduct		-13.73	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		16.47	
26 24 16 00-0433	EA	2 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	.....	129.18	24.70
		For Bolt-On, Add		25.76	
		For Installation In New Panelboard, Deduct		-13.73	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		16.47	
26 24 16 00-0434	EA	2 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	.....	219.93	32.94
		For Bolt-On, Add		40.30	
		For Installation In New Panelboard, Deduct		-18.30	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		21.96	
26 24 16 00-0435	EA	2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	.....	535.97	41.17
		For Bolt-On, Add		83.01	
		For Installation In New Panelboard, Deduct		-22.88	
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		27.45	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0436	EA	3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	203.12	32.94
		For Bolt-On, Add	38.20	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0437	EA	3 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	203.12	32.94
		For Bolt-On, Add	38.20	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0438	EA	3 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	268.19	41.17
		For Bolt-On, Add	49.54	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0439	EA	3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	662.47	49.41
		For Bolt-On, Add	102.02	
		For Installation In New Panelboard, Deduct	-27.45	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	
26 24 16 00-0440 Branch Circuit Breakers 22,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)				
		Note: Includes connection of electrical wire.		
26 24 16 00-0441	EA	1 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	73.41	16.47
		For Bolt-On, Add	15.58	
		For Installation In New Panelboard, Deduct	-9.15	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0442	EA	1 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	73.41	16.47
		For Bolt-On, Add	15.58	
		For Installation In New Panelboard, Deduct	-9.15	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0443	EA	1 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	87.30	20.58
		For Bolt-On, Add	18.92	
		For Installation In New Panelboard, Deduct	-11.44	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 24 16 00-0444	EA	1 Pole GFI, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	137.46	20.13
		For Bolt-On, Add	24.87	
		For Installation In New Panelboard, Deduct	-10.98	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.18	
26 24 16 00-0445	EA	2 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	149.48	24.70
		For Bolt-On, Add	28.29	
		For Installation In New Panelboard, Deduct	-13.73	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0446	EA	2 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	149.48	24.70
		For Bolt-On, Add	28.29	
		For Installation In New Panelboard, Deduct	-13.73	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0447	EA	2 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	183.15	32.94
		For Bolt-On, Add	35.70	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0448	EA	2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	260.06	41.17
		For Bolt-On, Add	48.52	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0449	EA	2 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	331.35	45.75
		For Bolt-On, Add	59.03	
		For Installation In New Panelboard, Deduct	-25.16	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.19	
26 24 16 00-0450	EA	2 Pole, 240 Volt, 300-400 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	411.81	53.53
		For Bolt-On, Add	72.29	
		For Installation In New Panelboard, Deduct	-29.74	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.68	
26 24 16 00-0451	EA	2 Pole, 240 Volt, 300-400 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	446.84	61.77
		For Bolt-On, Add	79.87	
		For Installation In New Panelboard, Deduct	-34.31	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.18	
26 24 16 00-0452	EA	3 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	183.49	32.94
		For Bolt-On, Add	35.75	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Switchboards And Panelboards			26 24	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
26 24 16 00-0453	EA	3 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	183.49	32.94
		For Bolt-On, Add	35.75	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0454	EA	3 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	216.82	41.17
		For Bolt-On, Add	43.12	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0455	EA	3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	321.25	49.41
		For Bolt-On, Add	59.37	
		For Installation In New Panelboard, Deduct	-27.45	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	
26 24 16 00-0456	EA	3 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	421.00	64.05
		For Bolt-On, Add	77.44	
		For Installation In New Panelboard, Deduct	-35.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.55	
26 24 16 00-0457	EA	3 Pole, 240 Volt, 250 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	517.18	74.11
		For Bolt-On, Add	93.47	
		For Installation In New Panelboard, Deduct	-41.17	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.41	
26 24 16 00-0458	EA	3 Pole, 240 Volt, 300-400 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	549.63	78.69
		For Bolt-On, Add	99.13	
		For Installation In New Panelboard, Deduct	-43.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.15	
26 24 16 00-0459		Branch Circuit Breakers 25,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
		Note: Includes connection of electrical wire.		
26 24 16 00-0460	EA	2 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	154.55	24.70
		For Bolt-On, Add	28.93	
		For Installation In New Panelboard, Deduct	-13.73	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0461	EA	2 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	154.55	24.70
		For Bolt-On, Add	28.93	
		For Installation In New Panelboard, Deduct	-13.73	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0462	EA	2 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	232.18	32.94
		For Bolt-On, Add	41.83	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0463	EA	2 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	369.62	41.17
		For Bolt-On, Add	62.22	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0464	EA	2 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	568.04	51.23
		For Bolt-On, Add	91.02	
		For Installation In New Panelboard, Deduct	-28.59	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.31	
26 24 16 00-0465	EA	2 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	640.94	53.53
		For Bolt-On, Add	100.93	
		For Installation In New Panelboard, Deduct	-29.74	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.68	
26 24 16 00-0466	EA	2 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	702.35	61.77
		For Bolt-On, Add	111.81	
		For Installation In New Panelboard, Deduct	-34.31	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.18	
26 24 16 00-0467	EA	3 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	220.54	32.94
		For Bolt-On, Add	40.38	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0468	EA	3 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	220.54	32.94
		For Bolt-On, Add	40.38	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0469	EA	3 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	277.62	41.17
		For Bolt-On, Add	50.72	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0470	EA	3 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	458.70	49.41
		For Bolt-On, Add	76.55	
		For Installation In New Panelboard, Deduct	-27.45	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	
26 24 16 00-0471	EA	3 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	665.28	64.05
		For Bolt-On, Add	107.98	
		For Installation In New Panelboard, Deduct	-35.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.55	
26 24 16 00-0472	EA	3 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	785.07	74.11
		For Bolt-On, Add	126.95	
		For Installation In New Panelboard, Deduct	-41.17	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.41	
26 24 16 00-0473	EA	3 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	848.18	78.69
		For Bolt-On, Add	136.44	
		For Installation In New Panelboard, Deduct	-43.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.15	
26 24 16 00-0474 Branch Circuit Breakers 30,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)				
		Note: Includes connection of electrical wire.		
26 24 16 00-0475	EA	2 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	159.59	24.70
		For Bolt-On, Add	29.56	
		For Installation In New Panelboard, Deduct	-13.73	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0476	EA	2 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	159.59	24.70
		For Bolt-On, Add	29.56	
		For Installation In New Panelboard, Deduct	-13.73	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0477	EA	2 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	278.71	32.94
		For Bolt-On, Add	47.65	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0478	EA	2 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	498.64	41.17
		For Bolt-On, Add	78.34	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0479	EA	2 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	781.30	51.23
		For Bolt-On, Add	117.68	
		For Installation In New Panelboard, Deduct	-28.59	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.31	
26 24 16 00-0480	EA	2 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	886.22	53.53
		For Bolt-On, Add	131.59	
		For Installation In New Panelboard, Deduct	-29.74	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.68	
26 24 16 00-0481	EA	2 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	967.03	61.77
		For Bolt-On, Add	144.90	
		For Installation In New Panelboard, Deduct	-34.31	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.18	
26 24 16 00-0482	EA	3 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	255.44	32.94
		For Bolt-On, Add	44.74	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0483	EA	3 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	255.44	32.94
		For Bolt-On, Add	44.74	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0484	EA	3 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	338.11	41.17
		For Bolt-On, Add	58.28	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0485	EA	3 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	606.11	49.41
		For Bolt-On, Add	94.98	
		For Installation In New Panelboard, Deduct	-27.45	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	
26 24 16 00-0486	EA	3 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	766.62	64.05
		For Bolt-On, Add	120.65	
		For Installation In New Panelboard, Deduct	-35.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.55	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0487	EA	3 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	1,206.19	74.11
		For Bolt-On, Add	179.59	
		For Installation In New Panelboard, Deduct	-41.17	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.41	
26 24 16 00-0488	EA	3 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	1,284.21	78.69
		For Bolt-On, Add	190.95	
		For Installation In New Panelboard, Deduct	-43.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.15	
26 24 16 00-0489 Branch Circuit Breakers 35,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)				
		Note: Includes connection of electrical wire.		
26 24 16 00-0490	EA	1 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	86.11	16.47
		For Bolt-On, Add	17.17	
		For Installation In New Panelboard, Deduct	-9.15	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0491	EA	1 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	86.11	16.47
		For Bolt-On, Add	17.17	
		For Installation In New Panelboard, Deduct	-9.15	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0492	EA	1 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	144.18	20.58
		For Bolt-On, Add	26.03	
		For Installation In New Panelboard, Deduct	-11.44	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 24 16 00-0493	EA	2 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	180.23	24.70
		For Bolt-On, Add	32.14	
		For Installation In New Panelboard, Deduct	-13.73	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0494	EA	2 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	180.23	24.70
		For Bolt-On, Add	32.14	
		For Installation In New Panelboard, Deduct	-13.73	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0495	EA	2 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	321.42	32.94
		For Bolt-On, Add	52.99	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0496	EA	2 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	583.94	41.17
		For Bolt-On, Add	89.01	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0497	EA	2 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	1,118.24	51.23
		For Bolt-On, Add	159.79	
		For Installation In New Panelboard, Deduct	-28.59	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.31	
26 24 16 00-0498	EA	3 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	292.68	32.94
		For Bolt-On, Add	49.40	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0499	EA	3 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	292.68	32.94
		For Bolt-On, Add	49.40	
		For Installation In New Panelboard, Deduct	-18.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0500	EA	3 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	389.85	41.17
		For Bolt-On, Add	64.74	
		For Installation In New Panelboard, Deduct	-22.88	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0501	EA	3 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	718.56	49.41
		For Bolt-On, Add	109.03	
		For Installation In New Panelboard, Deduct	-27.45	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	
26 24 16 00-0502	EA	3 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	1,390.24	64.05
		For Bolt-On, Add	198.60	
		For Installation In New Panelboard, Deduct	-35.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.55	
26 24 16 00-0503 Branch Circuit Breakers 42,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)				
		Note: Includes connection of electrical wire.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0504 EA 1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	121.89	16.47
For Bolt-On, Add	21.64	
For Installation In New Panelboard, Deduct	-9.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0505 EA 1 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	121.89	16.47
For Bolt-On, Add	21.64	
For Installation In New Panelboard, Deduct	-9.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0506 EA 1 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	182.24	20.58
For Bolt-On, Add	30.79	
For Installation In New Panelboard, Deduct	-11.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 24 16 00-0507 EA 2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	221.63	24.70
For Bolt-On, Add	37.31	
For Installation In New Panelboard, Deduct	-13.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0508 EA 2 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	221.63	24.70
For Bolt-On, Add	37.31	
For Installation In New Panelboard, Deduct	-13.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0509 EA 2 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	410.54	32.94
For Bolt-On, Add	64.13	
For Installation In New Panelboard, Deduct	-18.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0510 EA 2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	735.16	41.17
For Bolt-On, Add	107.91	
For Installation In New Panelboard, Deduct	-22.88	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0511 EA 2 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	1,446.13	45.75
For Bolt-On, Add	198.38	
For Installation In New Panelboard, Deduct	-25.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.19	
26 24 16 00-0512 EA 3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	375.64	32.94
For Bolt-On, Add	59.77	
For Installation In New Panelboard, Deduct	-18.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0513 EA 3 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	375.64	32.94
For Bolt-On, Add	59.77	
For Installation In New Panelboard, Deduct	-18.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0514 EA 3 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	518.02	41.17
For Bolt-On, Add	80.77	
For Installation In New Panelboard, Deduct	-22.88	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0515 EA 3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	831.01	49.41
For Bolt-On, Add	123.09	
For Installation In New Panelboard, Deduct	-27.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	
26 24 16 00-0516 EA 3 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	1,828.53	64.05
For Bolt-On, Add	253.38	
For Installation In New Panelboard, Deduct	-35.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.55	
26 24 16 00-0517 Branch Circuit Breakers 65,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
Note: Includes connection of electrical wire.		
26 24 16 00-0518 EA 1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	60.13	16.47
For Bolt-On, Add	13.92	
For Installation In New Panelboard, Deduct	-9.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0519 EA 2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	121.23	24.70
For Bolt-On, Add	24.76	
For Installation In New Panelboard, Deduct	-13.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0520 EA 3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	188.75	32.94
For Bolt-On, Add	36.40	
For Installation In New Panelboard, Deduct	-18.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0521 EA 1 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	115.76	16.47
For Bolt-On, Add	20.87	
For Installation In New Panelboard, Deduct	-9.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0522 EA 1 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	115.76	16.47
For Bolt-On, Add	20.87	
For Installation In New Panelboard, Deduct	-9.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0523 EA 1 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	230.63	32.94
For Bolt-On, Add	41.64	
For Installation In New Panelboard, Deduct	-18.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0524 EA 2 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	255.74	24.70
For Bolt-On, Add	41.58	
For Installation In New Panelboard, Deduct	-13.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0525 EA 2 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	255.74	24.70
For Bolt-On, Add	41.58	
For Installation In New Panelboard, Deduct	-13.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0526 EA 2 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	487.40	32.94
For Bolt-On, Add	73.74	
For Installation In New Panelboard, Deduct	-18.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0527 EA 2 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	820.47	41.17
For Bolt-On, Add	118.57	
For Installation In New Panelboard, Deduct	-22.88	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0528 EA 2 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	1,787.99	51.23
For Bolt-On, Add	243.51	
For Installation In New Panelboard, Deduct	-28.59	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.31	
26 24 16 00-0529 EA 3 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	424.43	32.94
For Bolt-On, Add	65.86	
For Installation In New Panelboard, Deduct	-18.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0530 EA 3 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	424.43	32.94
For Bolt-On, Add	65.86	
For Installation In New Panelboard, Deduct	-18.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0531 EA 3 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	588.85	41.17
For Bolt-On, Add	89.62	
For Installation In New Panelboard, Deduct	-22.88	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0532 EA 3 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	893.05	49.41
For Bolt-On, Add	130.84	
For Installation In New Panelboard, Deduct	-27.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	
26 24 16 00-0533 EA 3 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	2,223.23	64.05
For Bolt-On, Add	302.72	
For Installation In New Panelboard, Deduct	-35.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.55	
26 24 16 00-0534 Residential Lighting And Power Panelboards (26 24 16 00-0001)		
26 24 16 00-0535 Residential Type Unassembled Load Center (26 24 16 00-0534)		
Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0536 Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase (26 24 16 00-0535)		
26 24 16 00-0537 EA 30 Amp, 2 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	122.66	45.75
26 24 16 00-0538 EA 70 Amp, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	412.29	182.99
26 24 16 00-0539 EA 100 Amp, 8 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	622.66	261.22
26 24 16 00-0540 EA 125 Amp, 24 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	1,330.66	549.07
26 24 16 00-0541 EA 150 Amp, 30 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	1,455.04	594.73
26 24 16 00-0542 Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 V AC (26 24 16 00-0535)		
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta.		
26 24 16 00-0543 EA 60 Amp, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled	170.41	50.32
26 24 16 00-0544 EA 125 Amp, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled	303.96	54.90

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0545		Main Lug Load Center, 3 Wire 120/240 Volt, Single Phase, Rainproof (26 24 16 00-0535)		
26 24 16 00-0546	EA	40 Amp, 2 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled	173.22	50.32
26 24 16 00-0547	EA	70 Amp, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled	193.22	54.90
26 24 16 00-0548	EA	100 Amp, 8 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled	679.77	261.22
26 24 16 00-0549	EA	150 Amp, 30 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled	1,541.94	594.73
26 24 16 00-0550		Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 V AC (26 24 16 00-0535)		
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta, Rainproof.				
26 24 16 00-0551	EA	60 A, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled	213.86	50.32
26 24 16 00-0552	EA	125 A, 20 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled	1,489.68	549.07
26 24 16 00-0553		Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase (26 24 16 00-0535)		
26 24 16 00-0554	EA	125 Amp, 24 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	1,601.29	549.07
26 24 16 00-0555	EA	150 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	1,738.08	594.73
26 24 16 00-0556	EA	300 Amp, 42 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	6,068.89	914.96
26 24 16 00-0557		Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 V AC (26 24 16 00-0535)		
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta.				
26 24 16 00-0558	EA	125 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled	2,322.31	549.07
26 24 16 00-0559	EA	150 Amp, 40 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled	2,532.97	594.73
26 24 16 00-0560	EA	300 Amp, 42 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled	6,675.57	914.96
26 24 16 00-0561		Main Breaker Load Center, 3 Wire 120/240 Volt, Single Phase, Rainproof (26 24 16 00-0535)		
26 24 16 00-0562	EA	125 Amp, 24 Circuit, Main Breaker Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled	1,681.98	549.07
26 24 16 00-0563	EA	150 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled	1,875.88	594.73
26 24 16 00-0564		Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 V AC (26 24 16 00-0535)		
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta, Rainproof.				
26 24 16 00-0565	EA	125 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled	2,456.13	549.07
26 24 16 00-0566	EA	155 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled	2,547.49	594.73
26 24 16 00-0567		Residential Type Assembled Load Center (26 24 16 00-0534)		
26 24 16 00-0568		Main Lug Load Center, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase (26 24 16 00-0567)		
Note: Includes 1 pole plug-in breaker.				
26 24 16 00-0569	EA	100 Amp Main Lugs, Indoor 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	623.04	261.22
26 24 16 00-0570	EA	100 Amp Main Lugs, Indoor 12 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	758.04	305.14
26 24 16 00-0571	EA	100 Amp Main Lugs, Rainproof, 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	636.69	261.22
26 24 16 00-0572	EA	100 Amp Main Lugs, Rainproof, 12 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	761.76	305.14
26 24 16 00-0573	EA	200 Amp Main Lugs, Indoor, 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,103.94	406.70
26 24 16 00-0574	EA	200 Amp Main Lugs, Indoor, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,302.77	488.13
26 24 16 00-0575	EA	200 Amp Main Lugs, Indoor, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,489.99	563.16
26 24 16 00-0576	EA	200 Amp Main Lugs, Indoor, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,641.38	609.65
26 24 16 00-0577	EA	200 Amp Main Lugs, Indoor, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	2,456.85	914.96
26 24 16 00-0578	EA	200 Amp Main Lugs, Rainproof, 16 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,152.36	406.70
26 24 16 00-0579	EA	200 Amp Main Lugs, Rainproof, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,348.71	488.13
26 24 16 00-0580	EA	200 Amp Main Lugs, Rainproof, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,535.92	563.16
26 24 16 00-0581	EA	200 Amp Main Lugs, Rainproof, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,684.83	609.65
26 24 16 00-0582	EA	200 Amp Main Lugs, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	2,599.61	914.96
26 24 16 00-0583	EA	400 Amp Main Lugs, Indoor, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	3,020.19	1,016.62
26 24 16 00-0584	EA	400 Amp Main Lugs, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	3,169.16	1,016.62
26 24 16 00-0585		Main Lug Load Center, 4 Wire, 20 Amp, 120/208 V (26 24 16 00-0567)		
Note: Includes 1 pole plug-in breaker.				
26 24 16 00-0586	EA	125 Amp Main Lugs, Indoor, 12 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	827.56	305.14
26 24 16 00-0587	EA	125 Amp Main Lugs, Indoor, 18 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,234.01	457.49
26 24 16 00-0588	EA	125 Amp Main Lugs, Rainproof, 12 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	868.53	305.14
26 24 16 00-0589	EA	125 Amp Main Lugs, Rainproof, 18 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,271.25	457.49
26 24 16 00-0590	EA	200 Amp Main Lugs, Indoor, 24 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,560.75	563.16
26 24 16 00-0591	EA	200 Amp Main Lugs, Indoor, 30 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,704.10	610.01
26 24 16 00-0592	EA	200 Amp Main Lugs, Indoor, 36 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,085.13	732.24
26 24 16 00-0593	EA	200 Amp Main Lugs, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,506.51	914.96
26 24 16 00-0594	EA	200 Amp Main Lugs, Rainproof, 24 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,604.20	563.16



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0595 EA 200 Amp Main Lugs, Rainproof, 30 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,753.11	609.65
26 24 16 00-0596 EA 200 Amp Main Lugs, Rainproof, 36 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,251.78	731.70
26 24 16 00-0597 EA 200 Amp Main Lugs, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,674.10	914.96
26 24 16 00-0598 EA 400 Amp Main Lugs, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,057.43	1,016.62
26 24 16 00-0599 EA 400 Amp Main Lugs, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,206.40	1,016.62
26 24 16 00-0600 Main Breaker Load Center, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase (26 24 16 00-0567) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0601 EA 125 Amp Main Breaker, Indoor, 12 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	822.59	305.14
26 24 16 00-0602 EA 125 Amp Main Breaker, Indoor, 18 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,216.63	457.49
26 24 16 00-0603 EA 200 Amp Main Breaker, Indoor, 20 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,404.57	488.13
26 24 16 00-0604 EA 200 Amp Main Breaker, Indoor, 24 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,610.95	563.43
26 24 16 00-0605 EA 200 Amp Main Breaker, Indoor, 30 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,772.38	610.01
26 24 16 00-0606 EA 200 Amp Main Breaker, Indoor, 40 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	2,346.93	813.41
26 24 16 00-0607 EA 200 Amp Main Breaker, Rainproof, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	1,416.98	488.13
26 24 16 00-0608 EA 200 Amp Main Breaker, Rainproof, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	1,635.23	563.16
26 24 16 00-0609 EA 200 Amp Main Breaker, Rainproof, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	1,777.94	609.65
26 24 16 00-0610 EA 200 Amp Main Breaker, Rainproof, 40 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	2,278.65	813.41
26 24 16 00-0611 EA 400 Amp Main Breaker, Indoor, 42 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	4,298.86	1,016.62
26 24 16 00-0612 EA 400 Amp Main Breaker, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	4,547.14	1,016.62
26 24 16 00-0613 Main Breaker Load Center, 4 Wire, 20 Amp, 120/208 V (26 24 16 00-0567) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0614 EA 200 Amp Main Breaker, Indoor, 30 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,119.98	610.01
26 24 16 00-0615 EA 200 Amp Main Breaker, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,903.76	914.96
26 24 16 00-0616 EA 200 Amp Main Breaker, Rainproof, 30 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,193.82	609.65
26 24 16 00-0617 EA 200 Amp Main Breaker, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,978.25	914.96
26 24 16 00-0618 Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)		
26 24 16 00-0619 Midget Finger-Safe Fuse Holders (26 24 16 00-0618) Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0620 EA 1 Pole Midget Finger-Safe Fuse Holder	52.69	16.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0621 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder	60.32	16.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0622 EA 2 Pole Midget Finger-Safe Fuse Holder	83.90	24.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0623 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder	103.81	24.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.47	
26 24 16 00-0624 EA 3 Pole Midget Finger-Safe Fuse Holder	121.28	32.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0625 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder	147.72	32.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0626 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	169.85	32.94
Note: With indicators.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0627 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	140.52	32.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.96	
26 24 16 00-0628 EA 4 Pole Midget Finger-Safe Fuse Holder	152.56	41.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0629 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder	181.60	41.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.45	
26 24 16 00-0630 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder	60.35	16.47
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0631 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder	64.40	16.47
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0632 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder	61.09	16.47
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 24 16 00-0633 Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0634 EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers	1,148.72	
Note: Includes removal and reinstallation of main wiring to panelboard.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	343.11	
26 24 16 00-0635 EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage	60.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.84	
26 24 16 00-0636 EA Panelboard Filler Plate, Fits 1" Opening	4.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.86	
26 24 19 Motor-Control Centers (26 24)		
26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards And Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0002		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
		Note: 1-Speed non-reversing.		
26 24 19 00-0003	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit	2,188.75	83.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0004	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit	2,596.75	87.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0005	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit	3,880.15	92.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21	
26 24 19 00-0006	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit	7,057.86	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0007	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit	14,253.08	125.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28	
26 24 19 00-0008	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit	23,997.83	167.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0009		480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
		Note: 1-Speed non-reversing.		
26 24 19 00-0010	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit	2,188.75	83.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0011	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit	2,596.75	87.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0012	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit	3,880.15	92.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21	
26 24 19 00-0013	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit	7,057.86	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0014	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit	14,253.08	125.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28	
26 24 19 00-0015	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit	23,997.83	167.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0016		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
		Note: 1-Speed reversing.		
26 24 19 00-0017	EA	230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit	3,186.79	83.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0018	EA	230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit	4,256.62	87.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0019	EA	230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit	6,115.16	92.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21	
26 24 19 00-0020	EA	230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit	10,720.15	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0021	EA	230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit	21,135.74	125.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28	
26 24 19 00-0022	EA	230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit	36,443.70	167.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0023		480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
		Note: 1-Speed reversing.		
26 24 19 00-0024	EA	480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit	3,186.79	83.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0025	EA	480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit	4,256.62	87.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0026	EA	480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit	6,115.16	92.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21	
26 24 19 00-0027	EA	480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit	10,720.15	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0028	EA	480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit	21,135.74	125.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28	
26 24 19 00-0029	EA	480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit	36,443.70	167.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0030		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
		Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit	3,864.40	133.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.30	
26 24 19 00-0032	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit	5,331.68	142.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.32	
26 24 19 00-0033	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit	7,873.10	150.56
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.34	
26 24 19 00-0034	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit	14,108.27	171.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.89	
26 24 19 00-0035	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit	23,405.04	200.76
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.46	
26 24 19 00-0036		480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
		Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit	3,864.40	133.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.30	



Electrical			26
Low-Voltage Electrical Distribution			26 20
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit 5,331.68 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 85.32		142.20
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 7,873.10 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 90.34		150.56
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 14,108.27 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 102.89		171.48
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit 23,405.04 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 120.46		200.76
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit 4,491.43 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 50.19		83.64
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit 6,698.86 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 52.70		87.83
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit 9,181.17 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 55.21		92.01
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 17,272.95 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 65.25		108.74
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 29,951.04 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 75.28		125.47
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit 4,491.43 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 50.19		83.64
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit 6,698.86 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 52.70		87.83
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 9,181.17 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 55.21		92.01
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 17,272.95 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 65.25		108.74
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit 29,951.04 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 75.28		125.47
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit 6,656.57		87.83
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit 10,206.61		96.19
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit 17,224.32		108.74
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit 26,660.90		125.47
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit 45,629.04		167.30
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit 6,656.57		87.83
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit 10,206.61		96.19
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit 17,224.32		108.74
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit 26,660.90		125.47
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit 45,629.04		167.30
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit 4,517.78 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 80.30		133.83
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit 5,843.10 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 92.84		154.75
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit 10,312.76 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 102.89		171.48
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit 17,609.02 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 125.47		209.12
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit 24,198.61 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 160.61		267.67
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit 4,517.78 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 80.30		133.83
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit 5,843.10 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 92.84		154.75
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit 10,312.76 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 102.89		171.48
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit 17,609.02 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 125.47		209.12
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit 24,198.61 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 160.61		267.67

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0078		230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, energy saver.		
26 24 19 00-0079	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit	18,837.67	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0080	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit	19,976.80	133.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.30	
26 24 19 00-0081	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit	22,056.99	154.75
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.84	
26 24 19 00-0082	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit	33,419.89	171.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.89	
26 24 19 00-0083	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit	45,587.92	209.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.47	
26 24 19 00-0084	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit	61,872.44	267.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	160.61	
26 24 19 00-0085		480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, energy saver.		
26 24 19 00-0086	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit	18,837.67	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0087	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit	19,976.80	133.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.30	
26 24 19 00-0088	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit	22,056.99	154.75
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.84	
26 24 19 00-0089	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit	33,419.89	171.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.89	
26 24 19 00-0090	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit	45,587.92	209.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.47	
26 24 19 00-0091	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit	61,872.44	267.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	160.61	
26 24 19 00-0092		Combination Starters With Current Limiting Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093		230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	2,939.39	83.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0095	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,347.39	87.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0096	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,193.24	92.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21	
26 24 19 00-0097	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	9,593.13	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0098	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	17,200.68	125.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28	
26 24 19 00-0099	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	28,051.30	167.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0100		480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	2,939.39	83.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0102	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,347.39	87.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0103	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,193.24	92.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21	
26 24 19 00-0104	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	9,593.13	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0105	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	17,200.68	125.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28	
26 24 19 00-0106	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	28,051.30	167.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0107		230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed reversing.		
26 24 19 00-0108	EA	230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit	3,931.09	83.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0109 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,992.46 52.70	87.83
26 24 19 00-0110 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,398.65 55.21	92.01
26 24 19 00-0111 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,221.59 65.25	108.74
26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,024.13 75.28	125.47
26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 1-speed reversing.		
26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,931.09 50.19	83.64
26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,992.46 52.70	87.83
26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,398.65 55.21	92.01
26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,221.59 65.25	108.74
26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,024.13 75.28	125.47
26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,596.02 80.30	133.83
26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,052.72 85.32	142.20
26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,135.45 90.34	150.56
26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,580.10 102.89	171.48
26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,270.17 120.46	200.76
26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,596.02 80.30	133.83
26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,052.72 85.32	142.20
26 24 19 00-0128 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,135.45 90.34	150.56
26 24 19 00-0129 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,580.10 102.89	171.48
26 24 19 00-0130 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,270.17 120.46	200.76
26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,306.68 75.28	125.47
26 24 19 00-0133 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,499.21 80.30	133.83
26 24 19 00-0134 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,537.55 85.32	142.20
26 24 19 00-0135 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,823.91 97.87	163.11
26 24 19 00-0136 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,892.94 115.44	192.39
26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 1 wind.		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards And Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0138	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	5,306.68	125.47
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.28	
26 24 19 00-0139	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	7,499.21	133.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.30	
26 24 19 00-0140	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	10,537.55	142.20
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.32	
26 24 19 00-0141	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	19,823.91	163.11
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.87	
26 24 19 00-0142	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	32,892.94	192.39
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.44	
26 24 19 00-0143		230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
		Note: Reduced volt, auto-transformer.		
26 24 19 00-0144	EA	230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit	7,367.03	87.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.70	
26 24 19 00-0145	EA	230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit	11,881.28	96.19
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.72	
26 24 19 00-0146	EA	230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	20,102.14	108.74
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.25	
26 24 19 00-0147	EA	230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	30,469.09	125.47
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.28	
26 24 19 00-0148	EA	230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	50,147.70	167.30
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.38	
26 24 19 00-0149		480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
		Note: Reduced volt, auto-transformer.		
26 24 19 00-0150	EA	480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit	7,367.03	87.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.70	
26 24 19 00-0151	EA	480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	11,881.28	96.19
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.72	
26 24 19 00-0152	EA	480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	20,102.14	108.74
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.25	
26 24 19 00-0153	EA	480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	30,469.09	125.47
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.28	
26 24 19 00-0154	EA	480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit	50,147.70	167.30
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.38	
26 24 19 00-0155		230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
		Note: Reduced volt, part winding.		
26 24 19 00-0156	EA	230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit	5,249.39	133.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.30	
26 24 19 00-0157	EA	230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit	6,559.91	154.75
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.84	
26 24 19 00-0158	EA	230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit	11,566.65	171.48
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.89	
26 24 19 00-0159	EA	230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	20,522.78	209.12
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.47	
26 24 19 00-0160	EA	230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	30,292.56	267.67
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	160.61	
26 24 19 00-0161		480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
		Note: Reduced volt, part winding.		
26 24 19 00-0162	EA	480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit	5,249.39	133.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.30	
26 24 19 00-0163	EA	480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit	6,559.91	154.75
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.84	
26 24 19 00-0164	EA	480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	11,566.65	171.48
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.89	
26 24 19 00-0165	EA	480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	20,522.78	209.12
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.47	
26 24 19 00-0166	EA	480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit	30,292.56	267.67
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	160.61	
26 24 19 00-0167		230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
		Note: Reduced volt, energy saving		
26 24 19 00-0168	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit	19,444.53	108.74
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.25	
26 24 19 00-0169	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit	20,577.32	133.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.30	
26 24 19 00-0170	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit	22,636.36	154.75
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.84	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0171	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	33,899.88	171.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.89	
26 24 19 00-0172	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	45,960.07	209.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.47	
26 24 19 00-0173	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	64,424.63	267.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	160.61	
26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
		Note: Reduced volt, energy saving		
26 24 19 00-0175	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit.....	19,444.56	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.26	
26 24 19 00-0176	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit.....	20,577.32	133.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.30	
26 24 19 00-0177	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	22,636.36	154.75
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.84	
26 24 19 00-0178	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	33,899.88	171.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.89	
26 24 19 00-0179	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	45,960.07	209.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.47	
26 24 19 00-0180	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit.....	64,424.63	267.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	160.61	
26 24 19 00-0181 Combination Starters With Fusible Switch (26 24 19)				
		Note: Includes NEMA 1 enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)				
		Note: 1-Speed non-reversing.		
26 24 19 00-0183	EA	7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	1,943.47	83.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0184	EA	15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,691.90	87.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0185	EA	30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,561.01	92.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21	
26 24 19 00-0186	EA	50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,066.47	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0187	EA	100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,115.49	125.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28	
26 24 19 00-0188	EA	200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	23,416.34	167.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)				
		Note: 1-Speed non-reversing.		
26 24 19 00-0190	EA	10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	1,943.47	83.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0191	EA	25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,691.90	87.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0192	EA	50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,561.01	92.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21	
26 24 19 00-0193	EA	100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,066.47	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0194	EA	200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,115.49	125.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28	
26 24 19 00-0195	EA	400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	23,416.34	167.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)				
		Note: 1-Speed reversing.		
26 24 19 00-0197	EA	7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,159.30	83.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0198	EA	15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	4,721.81	87.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70	
26 24 19 00-0199	EA	30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	7,574.16	92.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21	
26 24 19 00-0200	EA	50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	12,361.00	108.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25	
26 24 19 00-0201	EA	100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	19,033.94	125.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28	
26 24 19 00-0202	EA	200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	32,373.31	167.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0203	480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)			
	Note: 1-Speed reversing.			
26 24 19 00-0204	EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,159.30	83.64	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19		
26 24 19 00-0205	EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	4,721.81	87.83	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70		
26 24 19 00-0206	EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	7,574.16	92.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21		
26 24 19 00-0207	EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	12,361.00	108.74	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25		
26 24 19 00-0208	EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	19,033.94	125.47	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28		
26 24 19 00-0209	EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	32,373.31	167.30	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38		
26 24 19 00-0210	230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)			
	Note: 2-Speed non-reversing, 2 wind.			
26 24 19 00-0211	EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	3,686.79	133.83	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.30		
26 24 19 00-0212	EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,086.40	142.20	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.32		
26 24 19 00-0213	EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	8,031.69	150.56	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.34		
26 24 19 00-0214	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	14,383.15	171.48	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.89		
26 24 19 00-0215	EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	22,941.96	200.76	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.46		
26 24 19 00-0216	480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)			
	Note: 2-Speed non-reversing, 2 wind.			
26 24 19 00-0217	EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	3,686.79	133.83	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.30		
26 24 19 00-0218	EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,086.40	142.20	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.32		
26 24 19 00-0219	EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	8,031.69	150.56	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.34		
26 24 19 00-0220	EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	14,383.15	171.48	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.89		
26 24 19 00-0221	EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	22,941.96	200.76	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.46		
26 24 19 00-0222	230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)			
	Note: 2-Speed non-reversing, 1 wind.			
26 24 19 00-0223	EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	4,233.46	83.64	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19		
26 24 19 00-0224	EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	6,470.49	87.83	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70		
26 24 19 00-0225	EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	9,329.18	92.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21		
26 24 19 00-0226	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	18,833.44	108.74	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25		
26 24 19 00-0227	480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)			
	Note: 2-Speed non-reversing, 1 wind.			
26 24 19 00-0228	EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	4,233.46	83.64	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19		
26 24 19 00-0229	EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	6,470.49	87.83	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70		
26 24 19 00-0230	EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	9,329.18	92.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.21		
26 24 19 00-0231	EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	18,833.44	108.74	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25		
26 24 19 00-0232	230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)			
	Note: Auto-transformer.			
26 24 19 00-0233	EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	6,426.09	87.83	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.70		
26 24 19 00-0234	EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	11,367.46	96.19	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.72		
26 24 19 00-0235	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	18,958.20	108.74	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.25		
26 24 19 00-0236	EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	25,320.31	125.47	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.28		
26 24 19 00-0237	EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	42,554.57	167.30	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38		



Electrical			26
Low-Voltage Electrical Distribution			26 20
Switchboards And Panelboards			26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer 6,426.09	87.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 52.70		
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer 11,367.46	96.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 57.72		
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer 18,958.20	108.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 65.25		
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer 25,320.31	125.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 75.28		
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer 42,554.57	167.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 100.38		
26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters 4,545.27	133.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 80.30		
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters 6,024.94	154.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 92.84		
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters 9,619.21	171.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 102.89		
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters 19,222.37	209.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 125.47		
26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters 4,545.27	133.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 80.30		
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters 6,024.94	154.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 92.84		
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters 9,619.21	171.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 102.89		
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters 19,222.37	209.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 125.47		
26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 18,835.56	108.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 65.25		
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 19,976.80	133.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 80.30		
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 22,056.99	154.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 92.84		
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 33,419.89	171.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 102.89		
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 45,587.92	209.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 125.47		
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 61,872.44	267.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 160.61		
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 18,835.56	108.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 65.25		
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 19,976.80	133.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 80.30		
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 22,056.99	154.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 92.84		
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 33,419.89	171.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 102.89		
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 45,587.92	209.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 125.47		
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 61,872.44	267.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 160.61		
26 24 19 00-0268 Starter Accessories (26 24 19)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 24 19 00-0269 Starter Modifications (26 24 19 00-0269)	
26 24 19 00-0270 EA	Control Circuit Transformer 60 Hertz, Size 1, 2, 50 VA Standard 103.32
26 24 19 00-0271 EA	Control Circuit Transformer 60 Hertz, Size 3, 4, 150 VA Standard 329.86
26 24 19 00-0272 EA	Control Circuit Transformer 60 Hertz, Size 5, 6, 50 VA 471.53
26 24 19 00-0273 EA	Control Circuit Transformer 60 Hertz, All Sizes, Extra 50 VA 118.41
26 24 19 00-0274 EA	Control Circuit Transformer 60 Hertz, All Sizes, Extra 100 VA 167.04
26 24 19 00-0275 EA	Control Circuit Transformer 60 Hertz, All Sizes, Extra 150 VA 281.23
26 24 19 00-0276 EA	Overload Relay Heater Elements, 3 Per Starter 69.78
26 24 19 00-0277 EA	N.O. Overload Relay Alarm 59.21
26 24 19 00-0278 EA	Control Circuit Fuses, Primary/Secondary 110.73
26 24 19 00-0279 EA	Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton 136.90
26 24 19 00-0280 EA	Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton 267.76
26 24 19 00-0281 EA	Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select 136.90
26 24 19 00-0282 EA	Control Devices Type PB2 Mount On Device, Individual Light Full V 157.03
26 24 19 00-0283 EA	Control Devices Type PB2 Mount On Device, Individual Light Transformer 189.25
26 24 19 00-0284 EA	Control Devices Type PB2 Mount On Device, Individual Light Push To 223.47
26 24 19 00-0285 EA	Blank Devices Panel 42.28
26 24 19 00-0286 EA	Oversize Or Special Color Starter 66.44
26 24 19 00-0287 EA	Mini Voltmeter/Ammeter With Current Transformer 578.75
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.53
26 24 19 00-0288 EA	Mini Elapsed Time Meters, Non Resettable 524.39
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.53
26 24 19 00-0289 EA	Panel Elapsed Time Meter, Resettable 785.17
26 24 19 00-0290 EA	Terminal Blocks, Side Mounted, Press Connection, Plug-In Press 66.44
26 24 19 00-0291 EA	Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw 94.62
26 24 19 00-0292 EA	Terminal Blocks, Front Mounted, Press Connection, Standard 66.44
26 24 19 00-0293 EA	Terminal Blocks, Front Mounted, Press Connection, Plug-In 94.62
26 24 19 00-0294 EA	Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility 94.62
26 24 19 00-0295 EA	Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type 136.90
26 24 19 00-0296 EA	MOR - A Solid State Modular Overload Relay 340.24
26 24 19 00-0297 EA	Heater Module 43.71
26 24 19 00-0298 EA	LAM - Long Acceleration Module 271.54
26 24 19 00-0299 EA	JAM - Jam Protection Module 311.28
26 24 19 00-0300 EA	PUM - Phase Unbalance Module 590.77
26 24 19 00-0301 EA	ULM - Underload Module 283.46
26 24 19 00-0302 EA	Wiring To Common Control Circuit Transformer 62.26
26 24 19 00-0303 EA	Handle Operator Separable Source Control Circuit 116.56
26 24 19 00-0304 EA	Type SIS Control Wire 49.01
26 24 19 00-0305 EA	Ring Or Spade Terminals Control 62.26
26 24 19 00-0306 EA	Ring Terminals Power 62.26
26 24 19 00-0307 EA	14 Gauge Control Wire 49.01
26 24 19 00-0308 EA	Wiremakers 62.26
26 24 19 00-0309 EA	Wiring Diagram On Door 37.09
26 24 19 00-0310 EA	Special Color Or Type Control Wire 45.04
26 24 19 00-0311 EA	Current Transformer 12.5 VA 353.67
26 24 19 00-0312 EA	Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4 1,129.88
26 24 19 00-0313 EA	Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6 1,271.61
26 24 19 00-0314 Control Relays And Special Components (26 24 19 00-0269)	
26 24 19 00-0315 EA	Control Relays, 600 Volt, 2 Pole 717.45
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.53
26 24 19 00-0316 EA	Control Relays, 600 Volt, 4 Pole 838.87
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 12.55
26 24 19 00-0317 EA	Control Relays, 600 Volt, 6 Pole 968.65
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 20.08
26 24 19 00-0318 EA	Control Relays, 600 Volt, 8 Pole 1,071.02
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 25.09
26 24 19 00-0319 EA	Control Relays, Pneumatic Timer 977.86
26 24 19 00-0320 EA	Control Relays, Motor Driven Timer 2,548.15
26 24 19 00-0321 EA	Control Relays, 7 Day Time Switch 3,207.19
26 24 19 00-0322 EA	Control Relays, 24 Hour Time Switch 899.35
26 24 19 00-0323 EA	Control Relays, Phase Voltage 1,529.84
26 24 19 00-0324 EA	Control Relays, Two Circuit Alternator 2,141.30
26 24 19 00-0325 EA	Control Relays, Manual 120 Volt 209.37
26 24 19 00-0326 EA	Control Relays, Over-Current Relay 2,527.33
26 24 19 00-0327 EA	Control Relays, UV-Relay 2,140.55
26 24 19 00-0328 EA	Control Relays, Over-Current Relay 2,140.55
26 24 19 00-0329 EA	Control Relays, Teleductor 1,577.43
26 24 19 00-0330 EA	Control Relays, Current Transducer 4,242.16
26 24 19 00-0331 EA	Control Relays, Watt Transducer 8,484.32
26 24 19 00-0332 EA	Control Relays, Blank, Add For Each 1x 287.89
26 24 19 00-0333 EA	Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway 430.64
26 24 19 00-0334 EA	Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway 485.36
26 24 19 00-0335 EA	Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway 540.08
26 24 19 00-0336 EA	Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway 485.36
26 24 19 00-0337 EA	Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway 540.08
26 24 19 00-0338 EA	Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway 568.63

26 24 19 00-0339 Circuit Breaker Modifications/Accessories (26 24 19 00-0269)



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0340 EA Circuit Breaker, Shunt Trip.....	231.19	
26 24 19 00-0341 EA Circuit Breaker, Auxiliary Switch.....	79.85	
26 24 19 00-0342 EA Circuit Breaker, Key Interlock.....	287.22	
26 24 19 00-0343 EA Circuit Breaker, GFR Ground Fault.....	1,324.04	
26 24 19 00-0344 EA Circuit Breaker, Seltronic Breaker.....	766.99	
26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)		
26 24 19 00-0346 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100.....	1,073.85	54.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.62	
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150.....	1,858.52	83.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100.....	1,787.92	54.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.62	
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150.....	2,571.08	83.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150.....	3,298.68	83.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250.....	2,047.04	108.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.26	
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400.....	3,311.52	117.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.28	
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600.....	4,367.43	150.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.30	
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800.....	5,146.00	230.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.06	
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200.....	7,291.32	347.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	208.45	
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000.....	15,935.81	460.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	275.80	
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500.....	23,794.47	577.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	345.97	
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000.....	39,651.16	669.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	401.85	
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	1,288.82	54.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.62	
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150.....	2,067.47	83.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	1,288.82	54.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.62	
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50.....	2,067.47	83.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150.....	2,186.29	54.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.62	
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150.....	2,995.01	83.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	3,713.59	83.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100.....	1,963.75	83.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.19	
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400.....	4,977.63	230.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.06	
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225.....	4,977.63	230.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.06	
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400.....	6,695.27	250.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.50	
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600.....	8,357.35	292.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	175.58	
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800.....	9,618.43	347.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	208.45	
26 24 19 00-0372 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)		
26 24 19 00-0373 EA Incoming Line And Feeder Fusible Switches, 30 Or 60 Amps.....	1,102.47	83.64
26 24 19 00-0374 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual.....	1,683.96	83.64
26 24 19 00-0375 EA Incoming Line And Feeder Fusible Switches, 100 Amps.....	1,859.75	104.56
26 24 19 00-0376 EA Incoming Line And Feeder Fusible Switches, 200 Amps.....	3,015.56	125.47
26 24 19 00-0377 EA Incoming Line And Feeder Fusible Switches, 400 Amps.....	5,926.76	158.93
26 24 19 00-0378 EA Incoming Line And Feeder Fusible Switches, 600 Amps.....	8,310.57	209.12
26 24 19 00-0379 EA Incoming Line And Feeder Fusible Switches, 800 Amps.....	20,167.62	280.22
26 24 19 00-0380 EA Incoming Line And Feeder Fusible Switches, 1,200 Amps.....	22,768.34	388.96
26 24 19 00-0381 Dry Type Distribution Transformers (26 24 19 00-0268)		
26 24 19 00-0382 EA 500 VA, Phase 1, Dry Type Distribution Transformers.....	1,025.25	
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers.....	1,058.32	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers.....	1,092.90	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers.....	1,253.75	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers.....	1,358.98	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers.....	1,421.29	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers.....	1,849.06	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers.....	2,083.58	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	4,843.64	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	2,570.65	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	3,561.32	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	5,550.19	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	5,139.79	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	7,122.64	
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	6,795.18	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	9,412.58	
26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type	648.27	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type	1,417.34	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel	583.85	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type	1,417.34	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch	787.18	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits	835.50	
26 24 19 00-0405 EA Add For Additional Circuits	72.85	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter	2,923.25	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor	3,062.17	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour	2,699.78	
26 24 19 00-0409 EA Add For Demand Attachment	476.85	
26 24 19 00-0410 EA Metering Equipment, Current Transformer, 800 Amp	807.32	
26 24 19 00-0411 EA Metering Equipment, Current Transformer, 1,000 Amp	1,393.18	
26 24 19 00-0412 EA Metering Equipment, Current Transformer, 2,000 Amp	1,622.69	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer	1,352.91	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester	1,455.59	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System	1,113.33	
26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0417 EA Current Limiting Reactors, 600 Amps	18,555.26	
26 24 19 00-0418 EA Current Limiting Reactors, 800 Amps	27,021.85	
26 24 19 00-0419 EA Current Limiting Reactors, 1,000 Amps	35,507.99	
26 24 19 00-0420 EA Current Limiting Reactors, 1,200 Amps	54,049.72	
26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	458.84	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp	458.84	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	634.35	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp	1,160.85	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw	634.35	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp	809.85	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw	809.85	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp	1,158.74	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw	809.85	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp	1,158.74	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw	985.35	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp	3,194.99	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw	985.35	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp	1,158.74	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw	3,194.99	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp	3,194.99	
26 24 19 00-0438 EA Bus Duct Transition Pull Box	521.89	
26 24 19 00-0439 EA Throat And Transition To Substation	1,007.50	
26 24 19 00-0440 EA Service Entrance Label	218.19	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition	456.07	
26 24 19 00-0442 EA 600 Ampere Sub Feed Lugs On Main Bus	316.58	
26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width	144.08	
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"	144.08	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth	445.71	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth	502.71	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space	43.02	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof	116.09	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	24.36	
26 24 19 00-0451 EA Standard Structure 150 Watt Space	104.69	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control	385.46	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High	104.69	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC	249.02	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Front Mounted	3,552.57	
26 24 19 00-0456 EA Standard Structure NEMA 3R N-Walk In Back-to-back	4,106.25	
26 24 19 00-0457 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted	4,110.22	
26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)		
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amps	501.86	250.94



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amps	752.79	376.42
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amps	836.48	418.23
26 24 19 00-0462 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amps	1,003.86	501.89
26 24 19 00-0463 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 600 Amps	83.64	41.83
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amps	501.86	250.94
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amps	752.79	376.42
26 24 19 00-0466 EA Install Vertical Section, 230/480 Volt, 3 Section, 800 Amps	836.48	418.23
26 24 19 00-0467 EA Install Vertical Section, 230/480 Volt, 4 Section, 800 Amps	1,003.86	501.89
26 24 19 00-0468 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 800 Amps	83.64	41.83
26 24 19 00-0469 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amps	585.54	292.76
26 24 19 00-0470 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amps	752.79	376.42
26 24 19 00-0471 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amps	1,003.86	501.89
26 24 19 00-0472 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amps	1,170.92	585.44
26 24 19 00-0473 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 1,200 Amps	125.47	62.74
26 24 19 00-0474 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amps	669.18	334.59
26 24 19 00-0475 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amps	920.20	460.06
26 24 19 00-0476 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amps	1,170.92	585.44
26 24 19 00-0477 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amps	1,338.12	669.10
26 24 19 00-0478 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 1,600 Amps	167.30	83.64
26 24 19 00-0479 EA Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amps	669.18	334.59
26 24 19 00-0480 EA Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amps	1,003.86	501.89
26 24 19 00-0481 EA Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amps	1,254.58	627.27
26 24 19 00-0482 EA Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amps	1,422.10	711.09
26 24 19 00-0483 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 2,000 Amps	167.30	83.64
26 24 19 00-0484 Motor Control Centers (26 24 19)		
26 24 19 00-0485 2.4 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0486 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp	14,485.53	167.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0487 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp	14,485.53	167.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0488 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp	14,485.53	167.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0489 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp	14,527.38	188.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.93	
26 24 19 00-0490 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp	15,426.02	209.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.47	
26 24 19 00-0491 EA 2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp	15,467.83	230.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.01	
26 24 19 00-0492 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp	15,509.65	250.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.56	
26 24 19 00-0493 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp	15,593.33	292.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	175.66	
26 24 19 00-0494 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp	15,676.97	334.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	200.75	
26 24 19 00-0495 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp	26,440.86	376.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	225.84	
26 24 19 00-0496 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp	28,376.72	418.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	250.94	
26 24 19 00-0497 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp	21,509.94	167.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0498 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp	22,407.46	179.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.91	
26 24 19 00-0499 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp	25,458.05	196.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.94	
26 24 19 00-0500 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp	28,339.29	209.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.47	
26 24 19 00-0501 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp	30,829.65	242.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.55	
26 24 19 00-0502 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp	33,779.83	259.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	155.59	
26 24 19 00-0503 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp	36,728.25	276.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	165.61	
26 24 19 00-0504 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp	40,224.92	301.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	180.68	
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp	46,812.50	334.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	200.75	
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp	50,719.70	355.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	213.32	
26 24 19 00-0507 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp	77,485.25	418.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	250.94	
26 24 19 00-0508 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp	82,554.25	460.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	276.06	
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp	86,965.42	501.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	301.16	
26 24 19 00-0510 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp	94,696.73	543.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	326.28	
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp	20,293.04	167.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.38	
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp	20,334.89	188.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.93	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20,376.68 125.47	209.12
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20,418.49 138.01	230.03
26 24 19 00-0515 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20,463.78 150.56	250.94
26 24 19 00-0516 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20,505.65 163.12	271.85
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20,547.46 175.66	292.76
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20,714.71 225.84	376.42
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35,344.00 250.94	418.23
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35,427.72 276.06	460.06
26 24 19 00-0521 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37,353.17 301.16	501.89
26 24 19 00-0522 EA Add For Reversing Starters, 100 To 700 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7,974.12 50.19	
26 24 19 00-0523 EA Add For Reversing Starters, 1,000 To 1,500 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8,216.46 50.19	
26 24 19 00-0524 EA Add For Reversing Starters, 1,750 To 2,500 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12,587.24 50.19	
26 24 19 00-0525 4.8 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15,751.99 150.56	250.94
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15,793.86 163.12	271.85
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15,835.67 175.66	292.76
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15,877.52 188.22	313.68
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,767.50 200.75	334.59
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,809.37 213.32	355.50
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,851.11 225.84	376.42
26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,893.01 238.41	397.32
26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,934.80 250.94	418.23
26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28,723.05 326.28	543.80
26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28,806.37 351.28	585.44
26 24 19 00-0537 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30,733.54 376.37	627.27
26 24 19 00-0538 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30,817.08 401.44	669.10
26 24 19 00-0539 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21,923.01 150.56	250.94
26 24 19 00-0540 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22,207.22 163.12	271.85
26 24 19 00-0541 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25,901.44 175.66	292.76
26 24 19 00-0542 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28,790.79 188.22	313.68
26 24 19 00-0543 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31,255.99 200.75	334.59
26 24 19 00-0544 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34,214.59 213.32	355.50
26 24 19 00-0545 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36,991.32 225.84	376.42
26 24 19 00-0546 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40,659.67 238.41	397.32
26 24 19 00-0547 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47,106.16 250.94	418.23
26 24 19 00-0548 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51,485.88 263.49	439.15
26 24 19 00-0549 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55,907.46 288.60	480.97
26 24 19 00-0550 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59,565.39 301.16	501.89
26 24 19 00-0551 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63,015.46 313.68	522.80
26 24 19 00-0552 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67,843.69 326.28	543.80
26 24 19 00-0553 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107,578.37 401.44	669.10



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0554 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	119,640.88 426.63	711.09
26 24 19 00-0555 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143,828.56 451.67	752.82
26 24 19 00-0556 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152,146.03 451.67	752.82
26 24 19 00-0557 EA 4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21,639.72 175.66	292.76
26 24 19 00-0558 EA 4.8 KV CL 14-202, Synchronous Motor Control, 700 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21,681.57 188.22	313.68
26 24 19 00-0559 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21,723.36 200.75	334.59
26 24 19 00-0560 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21,765.23 213.32	355.50
26 24 19 00-0561 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23,631.44 225.84	376.42
26 24 19 00-0562 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23,673.34 238.41	397.32
26 24 19 00-0563 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23,715.13 250.94	418.23
26 24 19 00-0564 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23,756.96 263.49	439.15
26 24 19 00-0565 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23,798.85 276.06	460.06
26 24 19 00-0566 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24,049.57 351.28	585.44
26 24 19 00-0567 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38,921.18 376.37	627.27
26 24 19 00-0568 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40,839.59 401.44	669.10
26 24 19 00-0569 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40,839.59 401.44	669.10
26 24 19 00-0570 EA Add For Reversing Starters, 100 To 1,250 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9,703.64 50.19	
26 24 19 00-0571 EA Add For Reversing Starters, 1,500 To 2,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9,999.67 50.19	
26 24 19 00-0572 EA Add For Reversing Starters, 3,000 To 4,500 HP..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15,338.75 50.19	
26 24 19 00-0573 2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0484)		
26 24 19 00-0574 EA 2.4/4.8 KV Load Break Disconnect Switch 600 Amp.....	12,598.62	167.30
26 24 19 00-0575 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amp.....	15,115.09	250.94
26 24 19 00-0576 EA 2.4/4.8 KV NEMA 3 Weather Resistant.....	4,992.31	
26 24 19 00-0577 EA 2.4/4.8 KV Space Heaters.....	174.58	12.55
26 24 19 00-0578 EA 2.4/4.8 KV Potential Transformer Fused.....	1,446.31	
26 24 19 00-0579 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA.....	776.02	
26 24 19 00-0580 EA 2.4/4.8 KV Control Transformer 4 KVA Max.....	2,311.14	
26 24 19 00-0581 EA 2.4/4.8 KV Pushbuttons Each.....	148.01	
26 24 19 00-0582 EA 2.4/4.8 KV Selector Switch Each.....	490.56	
26 24 19 00-0583 EA 2.4/4.8 KV Indicating Light.....	148.01	
26 24 19 00-0584 EA 2.4/4.8 KV Push To Test Light.....	448.27	
26 24 19 00-0585 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type.....	1,192.57	
26 24 19 00-0586 EA 2.4/4.8 KV AC Ammeter, Switchboard Type.....	1,192.57	
26 24 19 00-0587 EA 2.4/4.8 KV Power Factor Meter.....	3,567.14	
26 24 19 00-0588 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout.....	2,459.15	
26 24 19 00-0589 EA 2.4/4.8 KV Operation Counter.....	473.37	12.55
26 24 19 00-0590 EA 2.4/4.8 KV Phase Failure Protection.....	3,428.76	41.83
26 24 19 00-0591 EA 2.4/4.8 KV Ground Protection.....	6,579.83	20.91
26 24 19 00-0592 EA 2.4/4.8 KV Synchronous Motor DC Protection.....	2,402.92	20.91
26 24 19 00-0593 EA 2.4/4.8 KV Lightning Arresters.....	2,929.94	12.55
26 24 19 00-0594 EA 2.4/4.8 KV Portable Lifting Mechanism.....	4,234.31	
26 24 19 00-0595 EA 2.4/4.8 KV Auxiliary Timing Relay.....	462.96	41.83
26 24 19 00-0596 EA 2.4/4.8 KV Auxiliary Control Relay.....	334.48	41.83
26 24 19 00-0597 Incoming Section And Feeder Air Circuit Breakers (26 24 19 00-0484)		
Note: 3 Pole. Includes structure.		
26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amp, 14,000 Amp IC, 3-Pole, With Structure Included.....	1,029.76	250.70
26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amp, 22,000 Amp IC, 3-Pole, With Structure Included.....	1,783.93	443.76
26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	2,117.16	568.19
26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	3,408.99	914.96
26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	4,025.55	1,006.46
26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	5,264.12	1,116.26
26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 45,000 Amp IC, 3-Pole, With Structure Included.....	6,122.80	1,308.40
26 24 19 00-0605 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 100,000 Amp IC, 3-Pole, With Structure Included.....	10,878.34	1,524.33
26 24 19 00-0606 Main Lugs Only (26 24 19 00-0484)		
26 24 19 00-0607 EA 600 Amp Incoming Section, Main Lugs.....	778.80	320.24
26 24 19 00-0608 EA 800 Amp Incoming Section, Main Lugs.....	843.58	320.24
26 24 19 00-0609 EA 1,200 Amp Incoming Section, Main Lugs.....	1,172.07	503.23

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0610	EA	2,000 Amp Incoming Section, Main Lugs.....	3,000.19	914.96	
26 24 19 00-0611	EA	3,000 Amp Incoming Section, Main Lugs.....	4,580.90	1,326.70	
26 24 19 00-0612	EA	4,000 Amp Incoming Section, Main Lugs.....	6,573.52	1,829.93	
26 24 19 00-0613 Incoming Main Circuit Breaker Structure (26 24 19 00-0484)					
Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.					
26 24 19 00-0614	EA	225 Amp, Main Circuit Breaker Section	5,833.53	442.75	
		For 800 Amp Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0615	EA	400 Amp, Main Circuit Breaker Section	12,516.09	568.74	
		For 800 Amp Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0616	EA	600 Amp, Main Circuit Breaker Section	12,889.71	885.87	
		For 800 Amp Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0617	EA	800 Amp, Main Circuit Breaker Section	18,447.85	885.87	
		For 800 Amp Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0618	EA	1,200 Amp, Main Circuit Breaker Section	26,801.34	1,002.34	
		For 800 Amp Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0619 Incoming Fusible Main Disconnect Section (26 24 19 00-0484)					
Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.					
26 24 19 00-0620	EA	200 Amp, Fusible Main Disconnect Section.....	5,044.25	443.30	
		For 800 Amp Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0621	EA	400 Amp, Fusible Main Disconnect Section.....	6,980.15	569.01	
		For 800 Amp Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0622	EA	600 Amp, Fusible Main Disconnect Section.....	13,717.10	886.60	
		For 800 Amp Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0623	EA	800 Amp, Fusible Main Disconnect Section.....	15,997.16	886.60	
		For 800 Amp Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0624	EA	1,200 Amp, Fusible Main Disconnect Section.....	22,617.88	1,003.26	
		For 800 Amp Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0625 Circuit Breaker Combination Starters (26 24 19 00-0484)					
26 24 19 00-0626 Class I, Type A (26 24 19 00-0625)					
26 24 19 00-0627	EA	Size 1, Class I, Type A Circuit Breaker Combination Starter	869.73	185.74	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.90		
26 24 19 00-0628	EA	Size 2, Class I, Type A Circuit Breaker Combination Starter	1,014.77	185.74	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.30		
26 24 19 00-0629	EA	Size 3, Class I, Type A Circuit Breaker Combination Starter	1,479.62	263.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	157.76		
26 24 19 00-0630	EA	Size 4, Class I, Type A Circuit Breaker Combination Starter	2,434.74	346.77	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.95		



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 24 19 00-0631	EA Size 5, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,420.19	259.94	433.69	
26 24 19 00-0632	Class I, Type B (26 24 19 00-0625)				
26 24 19 00-0633	EA Size 1, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	827.65	91.50	161.95	
26 24 19 00-0634	EA Size 2, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	967.22	103.04	161.95	
26 24 19 00-0635	EA Size 3, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,422.98	140.76	234.23	
26 24 19 00-0636	EA Size 4, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,376.97	190.62	317.49	
26 24 19 00-0637	EA Size 5, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,373.60	245.96	405.33	
26 24 19 00-0638	Class I, Type C (26 24 19 00-0625)				
26 24 19 00-0639	EA Size 1, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	878.97	82.88	150.05	
26 24 19 00-0640	EA Size 2, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,026.43	97.34	150.05	
26 24 19 00-0641	EA Size 3, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,530.08	134.55	224.16	
26 24 19 00-0642	EA Size 4, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,489.29	185.97	310.17	
26 24 19 00-0643	EA Size 5, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,479.60	238.27	398.01	
26 24 19 00-0644	Class II, Type B (26 24 19 00-0625)				
26 24 19 00-0645	EA Size 1, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	862.27	125.68	222.34	
26 24 19 00-0646	EA Size 2, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,206.00	140.33	222.34	
26 24 19 00-0647	EA Size 3, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,718.42	177.32	296.45	
26 24 19 00-0648	EA Size 4, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,832.16	228.74	379.71	
26 24 19 00-0649	EA Size 5, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,166.48	278.95	463.89	
26 24 19 00-0650	Class II, Type C (26 24 19 00-0625)				
26 24 19 00-0651	EA Size 1, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,091.83	120.39	210.45	
26 24 19 00-0652	EA Size 2, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,256.53	131.46	210.45	
26 24 19 00-0653	EA Size 3, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,830.35	171.98	287.30	
26 24 19 00-0654	EA Size 4, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,937.74	222.08	370.56	
26 24 19 00-0655	EA Size 5, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,284.99	275.59	457.49	
26 24 19 00-0656	Fused Disconnect Combination Starter (26 24 19 00-0484)				
26 24 19 00-0657	Class I, Type A (26 24 19 00-0656)				
26 24 19 00-0658	EA Size 1, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	791.29	103.04	171.10	
26 24 19 00-0659	EA Size 2, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,198.37	140.33	234.23	
26 24 19 00-0660	EA Size 3, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,918.55	182.99	304.69	
26 24 19 00-0661	EA Size 4, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,622.21	257.01	427.29	
26 24 19 00-0662	EA Size 5, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,636.65	326.78	544.40	
26 24 19 00-0663	Class I, Type B (26 24 19 00-0656)				
26 24 19 00-0664	EA Size 1, Class I, Type B Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	810.49	91.50	152.80	
26 24 19 00-0665	EA Size 2, Class I, Type B Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,090.69	125.68	209.52	
26 24 19 00-0666	EA Size 3, Class I, Type B Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,619.94	168.19	279.98	
26 24 19 00-0667	EA Size 4, Class I, Type B Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,723.04	243.34	404.42	
26 24 19 00-0668	EA Size 5, Class I, Type B Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,724.99	309.11	514.21	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0669 Class I, Type C (26 24 19 00-0656)				
26 24 19 00-0670	EA	Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	861.65 85.67	142.74
26 24 19 00-0671	EA	Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,157.49 117.30	193.97
26 24 19 00-0672	EA	Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,767.55 163.39	269.92
26 24 19 00-0673	EA	Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,869.78 238.27	398.01
26 24 19 00-0674	EA	Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,465.46 304.99	508.72
26 24 19 00-0675 Class II, Type B (26 24 19 00-0656)				
26 24 19 00-0676	EA	Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,017.79 128.51	214.10
26 24 19 00-0677	EA	Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,316.91 159.96	267.17
26 24 19 00-0678	EA	Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,918.45 206.07	344.03
26 24 19 00-0679	EA	Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,143.16 278.95	463.89
26 24 19 00-0680	EA	Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,435.51 346.58	579.17
26 24 19 00-0681 Class II, Type C (26 24 19 00-0656)				
26 24 19 00-0682	EA	Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,061.31 120.39	201.29
26 24 19 00-0683	EA	Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,383.38 151.48	252.53
26 24 19 00-0684	EA	Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,043.87 197.19	328.48
26 24 19 00-0685	EA	Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,276.05 272.31	452.91
26 24 19 00-0686	EA	Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,565.17 336.38	560.88
26 24 19 00-0687 Space Complete With Bus And Hardware (26 24 19 00-0484)				
26 24 19 00-0688 Circuit Breaker Type (26 24 19 00-0687)				
26 24 19 00-0689	EA	Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	242.25	62.22
26 24 19 00-0690	EA	Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	242.25	62.22
26 24 19 00-0691	EA	Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	360.42	90.58
26 24 19 00-0692	EA	Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	424.64	118.94
26 24 19 00-0693	EA	Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	718.07	181.17
26 24 19 00-0694 Fused Disconnect Type (26 24 19 00-0687)				
26 24 19 00-0695	EA	Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	242.25	62.22
26 24 19 00-0696	EA	Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	318.91	90.58
26 24 19 00-0697	EA	Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	444.96	118.94
26 24 19 00-0698	EA	Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	774.75	181.17
26 24 19 00-0699	EA	Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,077.02	263.51
26 24 19 00-0700 Blank Space For Future Expansion (26 24 19 00-0687)				
Note: Factory modified no labor costs.				
26 24 19 00-0701	EA	Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	118.27	
26 24 19 00-0702	EA	Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	118.27	
26 24 19 00-0703	EA	Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs.....	179.31	
26 24 19 00-0704	EA	Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs.....	179.31	
26 24 19 00-0705	EA	Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs.....	356.71	
26 24 19 00-0706 Structure Combination Of Starters To 72" High (26 24 19 00-0687)				
26 24 19 00-0707	EA	Structure Combination Of Starters To 72" High	2,885.71	481.55
26 24 19 00-0708 Motor Control Center Basic Distribution Section (26 24 19 00-0484)				
26 24 19 00-0709	EA	20" Wide Basic Section With Vertical Wireway	4,713.72	1,254.05
		<i>For 20" Cabinet Depth, Add</i>	108.00	
		<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
		<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
		<i>For 1,600 Amp Tin Plated Copper Bus, Add</i>	402.00	
		<i>For 2,000 Amp Tin Plated Copper Bus, Add</i>	506.00	
		<i>For NEMA 1 With Gasket, Add</i>	97.00	
		<i>For NEMA 12, Add</i>	245.00	
		<i>For 600 Amp Tin Plated Copper Vertical, Add</i>	210.00	



		Electrical	26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0710 EA 25"-35" Wide Basic Section (No Vertical Wireway).....	4,713.72	1,254.05
For 20" Cabinet Depth, Add	108.00	
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amp Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711 EA 25" Wide Basic Section With 9" Wide Vertical Wireway	5,233.43	1,254.05
For 20" Cabinet Depth, Add	108.00	
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amp Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712 EA Corner Section.....	5,233.43	1,254.05
For 20" Cabinet Depth, Add	108.00	
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amp Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0713 Motor Control Center Starters With HMCP Circuit Breaker (26 24 19 00-0484)		
Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0714 FVNR Starters With HMCP Circuit Breaker (26 24 19 00-0713)		
26 24 19 00-0715 EA Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker	1,256.54	176.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.67	
26 24 19 00-0716 EA Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker	1,398.76	195.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.20	
26 24 19 00-0717 EA Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker	2,442.04	262.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	157.57	
26 24 19 00-0718 EA Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker	3,549.85	346.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.76	
26 24 19 00-0719 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker	8,172.38	432.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	259.64	
26 24 19 00-0720 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker	19,244.13	432.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	259.64	
26 24 19 00-0721 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker	1,274.33	152.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.40	
26 24 19 00-0722 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker	1,437.28	171.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.93	
26 24 19 00-0723 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker	2,504.48	234.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	140.54	
26 24 19 00-0724 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker	3,558.60	317.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	190.51	
26 24 19 00-0725 EA Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker	8,193.02	409.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	245.96	
26 24 19 00-0726 EA Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker	19,383.90	409.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	245.96	
26 24 19 00-0727 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker (26 24 19 00-0713)		
26 24 19 00-0728 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,026.37	220.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.22	
26 24 19 00-0729 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,491.96	243.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	146.32	
26 24 19 00-0730 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	4,123.43	327.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	196.63	
26 24 19 00-0731 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	7,122.90	433.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	259.94	
26 24 19 00-0732 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	12,917.44	542.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	325.23	
26 24 19 00-0733 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,065.59	190.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	114.18	
26 24 19 00-0734 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,552.62	214.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.75	
26 24 19 00-0735 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	4,206.86	293.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	175.96	
26 24 19 00-0736 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	7,150.04	397.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	238.27	
26 24 19 00-0737 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	12,958.45	512.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	307.73	
26 24 19 00-0738 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker (26 24 19 00-0713)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0739 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,225.07 132.22	220.42
26 24 19 00-0740 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,182.12 146.32	243.83
26 24 19 00-0741 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,034.94 196.63	327.74
26 24 19 00-0742 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,221.06 259.94	433.24
26 24 19 00-0743 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,553.68 325.23	542.03
26 24 19 00-0744 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,264.29 114.18	190.32
26 24 19 00-0745 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,242.78 128.75	214.56
26 24 19 00-0746 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,118.38 175.96	293.24
26 24 19 00-0747 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,248.20 238.27	397.09
26 24 19 00-0748 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,594.69 307.73	512.84
26 24 19 00-0749 Motor Control Center Starters With Fusible Disconnect (26 24 19 00-0484) Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0750 FVNR Starters With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0751 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect	1,007.12	171.74
26 24 19 00-0752 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect	1,310.64	233.40
26 24 19 00-0753 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect	2,204.59	304.14
26 24 19 00-0754 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect	3,736.56	428.39
26 24 19 00-0755 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect	7,578.85	544.58
26 24 19 00-0756 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect	19,400.27	544.58
26 24 19 00-0757 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect	1,032.72	152.25
26 24 19 00-0758 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect	1,348.10	209.07
26 24 19 00-0759 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect	2,276.10	280.35
26 24 19 00-0760 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect	3,757.22	405.60
26 24 19 00-0761 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect	7,586.20	515.21
26 24 19 00-0762 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect	19,526.85	515.21
26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect	1,753.31	215.02
26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect	2,444.69	291.78
26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect	3,801.40	379.99
26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect	8,027.14	536.99
26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect	13,115.34	628.39
26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect	1,802.42	190.32
26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect	2,502.63	261.13
26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect	3,895.46	350.80
26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect	8,064.72	506.07
26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect	13,143.06	592.62
26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect	2,052.69	215.02
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect	3,145.45	291.78
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect	5,732.78	379.99
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect	8,429.85	536.99
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect	16,012.41	628.39
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect	2,102.68	190.32
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect	3,203.39	261.13
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect	5,826.84	350.80
26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect	8,467.42	506.07
26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect	16,040.13	592.62
26 24 19 00-0785 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit (26 24 19 00-0484) Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786 EA 600 Amp Horizontal Tin Plated Copper Bus Kit	224.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.87	
26 24 19 00-0787 EA 800 Amp Horizontal Tin Plated Copper Bus Kit	275.48	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.87	
26 24 19 00-0788 EA 1,200 Amp Horizontal Tin Plated Copper Bus Kit	331.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 24 19 00-0789 EA 1,600 Amp Horizontal Tin Plated Copper Bus Kit	431.96	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 24 19 00-0790 EA 2,000 Amp Horizontal Tin Plated Copper Bus Kit	726.20	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.62	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit	127.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.50	



Electrical		26
Low-Voltage Electrical Distribution		26 20
Switchboards And Panelboards		26 24

26

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0792	Disconnect Switch For Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0793	3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0792) Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794	EA 150 Amp Rating, 15 To 100 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	595.59	132.21
26 24 19 00-0795	EA 150 Amp Rating, 125 To 150 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	991.13	146.40
26 24 19 00-0796	EA 225 Amp Rating, 70 To 225 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,220.35	197.18
26 24 19 00-0797	EA 400 Amp Rating, 125 To 400 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,984.42	259.85
26 24 19 00-0798	EA 600 Amp Rating, 300 To 600 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	3,353.77	324.81
26 24 19 00-0799	EA 800 Amp Rating, 400 To 800 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	3,798.29	324.81
26 24 19 00-0800	EA 1,200 Amp Rating, 600 To 1,200 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	7,667.13	406.70
26 24 19 00-0801	Fusible Disconnect Switch For Motor Control Center (26 24 19 00-0792) Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802	EA 30 Amp Switch Rating, Fusible Disconnect Switch With 30 Amp Fuse Clips.....	694.24	128.55
26 24 19 00-0803	EA 60 Amp Switch Rating, Fusible Disconnect Switch With 60 Amp Fuse Clips.....	814.09	175.22
26 24 19 00-0804	EA 100 Amp Switch Rating, Fusible Disconnect Switch With 100 Amp Fuse Clips.....	1,118.63	224.16
26 24 19 00-0805	EA 200 Amp Switch Rating, Fusible Disconnect Switch With 200 Amp Fuse Clips.....	2,103.47	321.15
26 24 19 00-0806	EA 400 Amp Switch Rating, Fusible Disconnect Switch With 400 Amp Fuse Clips.....	3,767.00	408.44
26 24 19 00-0807	EA 600 Amp Switch Rating, Fusible Disconnect Switch With 600 Amp Fuse Clips.....	8,747.79	408.44
26 24 19 00-0808	EA 800 Amp Switch Rating, Fusible Disconnect Switch With 800 Amp Fuse Clips.....	10,813.19	510.56
26 24 19 00-0809	EA 1,200 Amp Switch Rating, Fusible Disconnect Switch With 1,200 Amp Fuse Clips.....	16,027.12	510.56
26 24 19 00-0810	Control Circuit Transformer (26 24 19 00-0484)		
26 24 19 00-0811	EA Control Circuit Transformer, Size 1 Factory Installed	63.10	
26 24 19 00-0812	EA Control Circuit Transformer, Size 2 Factory Installed	63.10	
26 24 19 00-0813	EA Control Circuit Transformer, Size 3 Factory Installed	121.52	
26 24 19 00-0814	EA Control Circuit Transformer, Size 4 Factory Installed	121.52	
26 24 19 00-0815	EA Control Circuit Transformer, Size 5 Factory Installed	168.82	
26 24 19 00-0816	EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay	44.55	10.36
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87	
26 24 19 00-0817	Cover Mounted Control Devices (26 24 19 00-0484)		
26 24 19 00-0818	EA Control Device, 2 Unit Push Button Station Cover Mounted.....	101.23	18.30
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.44	
26 24 19 00-0819	EA Control Device, 2-3 Unit Selector Switch Cover Mounted.....	113.09	18.30
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.30	
26 24 19 00-0820	EA Control Device, Pilot Light Cover Mounted	96.33	18.30
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 24 19 00-0821	EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light	255.85	62.22
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.50	
26 24 19 00-0822	EA Auxiliary Contact Add Per Starter	319.02	23.70
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.22	
26 24 19 00-0823	Extra Interlocks (26 24 19 00-0484) Note: Per contact.		
26 24 19 00-0824	EA Extra Interlocks, Class I, Type A Per Contact.....	65.50	11.89
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 24 19 00-0825	EA Extra Interlocks, Class I, Type B Per Contact.....	91.87	11.89
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 24 19 00-0826	EA Extra Interlocks, Class I, Type C Per Contact.....	102.96	11.89
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.15	
26 24 19 00-0827	EA Extra Interlocks, Class II, Type B Per Contact.....	92.91	11.89
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.72	
26 24 19 00-0828	EA Extra Interlocks, Class II, Type C Per Contact.....	98.80	11.89
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.32	
26 24 19 00-0829	Special Cabinet Provisions (26 24 19 00-0484)		
26 24 19 00-0830	EA Provisions For Bus Duct Entrance Special Cabinet Provisions.....	789.86	
26 24 19 00-0831	Nameplate Requirements (26 24 19 00-0484)		
26 24 19 00-0832	EA Special Cabinet Nameplate Requirements	28.04	
26 24 19 00-0833	Auxiliary Relays (26 24 19 00-0484)		
26 24 19 00-0834	EA Industrial Control Relay, 10 Amp Class A600 With 2 Contacts.....	149.68	22.91
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.75	
26 24 19 00-0835	EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay	141.24	20.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.75	
26 24 19 00-0836	EA General Purpose Control Relay, 240 Volt AC, 10 Amp, With Base	78.28	20.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.75	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**26 24 19 00-0837 Motor Control Center Accessories** (26 24 19 00-0484)**26 24 19 00-0838 Lighting Transformer With Circuit Breaker** (26 24 19 00-0837)

Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.

26 24 19 00-0839	EA	1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	4,515.65	293.40
26 24 19 00-0840	EA	1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	4,694.91	305.14
26 24 19 00-0841	EA	1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,137.83	328.61
26 24 19 00-0842	EA	1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,470.58	352.09
26 24 19 00-0843	EA	1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,719.15	375.56
26 24 19 00-0844	EA	1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,718.22	422.51
26 24 19 00-0845	EA	1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	14,099.93	469.46
26 24 19 00-0846	EA	3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,213.58	387.29
26 24 19 00-0847	EA	3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,923.30	422.51
26 24 19 00-0848	EA	3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,208.43	469.46
26 24 19 00-0849	EA	3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,826.48	516.40
26 24 19 00-0850	EA	3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,073.84	563.35
26 24 19 00-0851	EA	3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,484.19	610.29

26 24 19 00-0852 Bolt-On Lighting Panel (26 24 19 00-0837)

Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.

26 24 19 00-0853	EA	18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	1,809.15	476.15
26 24 19 00-0854	EA	30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,796.77	828.78
26 24 19 00-0855	EA	42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,711.22	1,121.29
26 24 19 00-0856	EA	18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	1,887.22	515.21
26 24 19 00-0857	EA	30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,761.50	811.11
26 24 19 00-0858	EA	42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	3,851.37	1,191.38
26 24 19 00-0859	EA	18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	3,123.28	552.27
26 24 19 00-0860	EA	30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	4,116.53	886.60
26 24 19 00-0861	EA	42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	5,120.41	1,191.38
26 24 19 00-0862	EA	18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	3,210.15	595.65
26 24 19 00-0863	EA	30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	4,116.53	886.60
26 24 19 00-0864	EA	42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	5,197.28	1,229.80

26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0837)

Note: For MCC lighting panel only.

26 24 19 00-0866	EA	15 A / 1 Pole - 30 A / 1 Pole Bolt-On Branch Circuit Breaker.....	13.28	
26 24 19 00-0867	EA	15 A / 1 Pole - 30 A / 1 Pole (GFI) Bolt-On Branch Circuit Breaker	243.42	
26 24 19 00-0868	EA	15 A / 2 Pole - 50 A / 2 Pole Bolt-On Branch Circuit Breaker.....	25.96	
26 24 19 00-0869	EA	60 A / 2 Pole - 100 A / 2 Pole Bolt-On Branch Circuit Breaker.....	59.77	
26 24 19 00-0870	EA	15 A / 3 Pole - 50 A / 3 Pole Bolt-On Branch Circuit Breaker.....	70.03	
26 24 19 00-0871	EA	60 A / 3 Pole - 100 A / 3 Pole Bolt-On Branch Circuit Breaker.....	106.26	

26 24 19 00-0872 Blank Unit Door (BUD) (26 24 19 00-0837)

Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.

26 24 19 00-0873	EA	6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	64.91	
26 24 19 00-0874	EA	12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	77.90	
26 24 19 00-0875	EA	18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	116.84	
26 24 19 00-0876	EA	24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	155.79	
26 24 19 00-0877	EA	30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	233.69	
26 24 19 00-0878	EA	48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	272.63	
26 24 19 00-0879	EA	72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	311.58	

26 25 Enclosed Bus Assemblies (26 20)**26 25 00 00-0001 Bus Ducts** (26 25)**26 25 00 00-0002 Plug-In Bus Duct** (26 25 00 00-0001)

Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.

26 25 00 00-0003 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 00 00-0002)

26 25 00 00-0004	LF	225 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	249.79	27.45
		For Up To 25, Add	62.45	
		For >25 To 50, Add	37.47	
		For >50 To 100, Add	18.73	
26 25 00 00-0005	LF	400 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	355.54	27.45
		For Up To 25, Add	88.89	
		For >25 To 50, Add	53.33	
		For >50 To 100, Add	26.67	
26 25 00 00-0006	LF	600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	451.23	36.59
		For Up To 25, Add	112.81	
		For >25 To 50, Add	67.68	
		For >50 To 100, Add	33.84	
26 25 00 00-0007	LF	800 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	625.24	36.59
		For Up To 25, Add	156.31	
		For >25 To 50, Add	93.79	
		For >50 To 100, Add	46.89	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Enclosed Bus Assemblies		26 25	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0008	LF		1,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	659.45	45.75
			For Up To 25, Add	164.86	
			For >25 To 50, Add	98.92	
			For >50 To 100, Add	49.46	
26 25 00 00-0009	LF		1,350 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	921.28	45.75
			For Up To 25, Add	230.32	
			For >25 To 50, Add	138.19	
			For >50 To 100, Add	69.10	
26 25 00 00-0010	LF		1,600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,079.47	48.04
			For Up To 25, Add	269.87	
			For >25 To 50, Add	161.92	
			For >50 To 100, Add	80.96	
26 25 00 00-0011	LF		2,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,316.20	49.41
			For Up To 25, Add	329.05	
			For >25 To 50, Add	197.43	
			For >50 To 100, Add	98.72	
26 25 00 00-0012	LF		2,500 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,626.18	52.16
			For Up To 25, Add	406.55	
			For >25 To 50, Add	243.93	
			For >50 To 100, Add	121.96	
26 25 00 00-0013	LF		3,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,877.56	60.84
			For Up To 25, Add	469.39	
			For >25 To 50, Add	281.63	
			For >50 To 100, Add	140.82	
26 25 00 00-0014	LF		4,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,173.66	66.33
			For Up To 25, Add	543.42	
			For >25 To 50, Add	326.05	
			For >50 To 100, Add	163.02	
26 25 00 00-0015			277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 00 00-0002)		
26 25 00 00-0016	LF		225 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	413.11	27.45
			For Up To 25, Add	103.28	
			For >25 To 50, Add	61.97	
			For >50 To 100, Add	30.98	
26 25 00 00-0017	LF		400 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	598.12	27.45
			For Up To 25, Add	149.53	
			For >25 To 50, Add	89.72	
			For >50 To 100, Add	44.86	
26 25 00 00-0018	LF		600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	676.30	36.59
			For Up To 25, Add	169.08	
			For >25 To 50, Add	101.45	
			For >50 To 100, Add	50.72	
26 25 00 00-0019	LF		800 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	861.05	36.59
			For Up To 25, Add	215.26	
			For >25 To 50, Add	129.16	
			For >50 To 100, Add	64.58	
26 25 00 00-0020	LF		1,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,051.40	45.75
			For Up To 25, Add	262.85	
			For >25 To 50, Add	157.71	
			For >50 To 100, Add	78.86	
26 25 00 00-0021	LF		1,350 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,364.35	45.75
			For Up To 25, Add	341.09	
			For >25 To 50, Add	204.65	
			For >50 To 100, Add	102.33	
26 25 00 00-0022	LF		1,600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,765.37	47.40
			For Up To 25, Add	441.34	
			For >25 To 50, Add	264.81	
			For >50 To 100, Add	132.40	
26 25 00 00-0023	LF		2,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,127.75	49.41
			For Up To 25, Add	531.94	
			For >25 To 50, Add	319.16	
			For >50 To 100, Add	159.58	
26 25 00 00-0024	LF		2,500 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,640.70	51.69
			For Up To 25, Add	660.18	
			For >25 To 50, Add	396.11	
			For >50 To 100, Add	198.05	
26 25 00 00-0025	LF		3,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	3,048.20	60.84
			For Up To 25, Add	762.05	
			For >25 To 50, Add	457.23	
			For >50 To 100, Add	228.62	
26 25 00 00-0026	LF		4,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	3,534.31	66.33
			For Up To 25, Add	883.58	
			For >25 To 50, Add	530.15	
			For >50 To 100, Add	265.07	
26 25 00 00-0027			Cable Tap Boxes (26 25 00 00-0002)		
26 25 00 00-0028			600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 00 00-0027)		
26 25 00 00-0029	EA		225 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,079.12	128.10
26 25 00 00-0030	EA		400 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,142.38	128.10
26 25 00 00-0031	EA		600 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,312.14	173.84
26 25 00 00-0032	EA		800 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,456.18	173.84
26 25 00 00-0033	EA		1,000 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,631.00	228.74

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0034	EA	1,350 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,881.36	228.74
26 25 00 00-0035		277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 00 00-0027)		
26 25 00 00-0036	EA	225 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,142.38	251.62
26 25 00 00-0037	EA	400 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,322.64	251.62
26 25 00 00-0038	EA	600 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,476.25	343.12
26 25 00 00-0039	EA	800 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,781.57	343.12
26 25 00 00-0040	EA	1,000 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,919.99	457.49
26 25 00 00-0041	EA	1,350 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,323.91	457.49
26 25 00 00-0042		Bus Duct Plug-In Circuit Breaker (26 25 00 00-0002)		
26 25 00 00-0043		240 Volt, 3-Phase (26 25 00 00-0042)		
26 25 00 00-0044	EA	60 Amp Bus Duct Circuit Breaker 240 Volt, 3 Phase Plug-in Circuit Breaker	927.65	91.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.05	
26 25 00 00-0045	EA	100 Amp Bus Duct Circuit Breaker 240 Volt, 3 Phase Plug-in Circuit Breaker	1,863.49	91.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.25	
26 25 00 00-0046		600 Volt, 3-Phase (26 25 00 00-0042)		
26 25 00 00-0047	EA	60 Amp Bus Duct Circuit Breaker 600 Volt, 3 Phase Plug-in Circuit Breaker	1,816.16	91.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.05	
26 25 00 00-0048	EA	100 Amp Bus Duct Circuit Breaker 600 Volt, 3 Phase Plug-in Circuit Breaker	2,352.64	91.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.25	
26 25 00 00-0049		120/208 Volt, 3-Phase, 4-Wire (26 25 00 00-0042)		
26 25 00 00-0050	EA	60 Amp Bus Duct Circuit Breaker 120/208 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,068.48	109.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.19	
26 25 00 00-0051	EA	100 Amp Bus Duct Circuit Breaker 120/208 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,274.84	109.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.48	
26 25 00 00-0052		277/480 Volt, 3-Phase, 4-Wire (26 25 00 00-0042)		
26 25 00 00-0053	EA	60 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,227.19	109.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.19	
26 25 00 00-0054	EA	100 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,896.31	109.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.48	
26 25 00 00-0055	EA	225 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	2,739.68	379.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	164.56	
26 25 00 00-0056	EA	400 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	6,556.86	379.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	357.41	
26 25 00 00-0057	EA	600 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	7,275.87	1,097.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	497.27	
26 25 00 00-0058	EA	800 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	8,972.27	1,097.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	879.77	
26 25 00 00-0059		Bus Duct Plug-In Fusible Switch (26 25 00 00-0002)		
26 25 00 00-0060		240 Volt, 3-Pole, 3-Fuse (26 25 00 00-0059)		
26 25 00 00-0061	EA	30 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	925.47	91.50
26 25 00 00-0062	EA	60 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	1,013.51	91.50
26 25 00 00-0063	EA	100 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	1,404.76	109.79
26 25 00 00-0064	EA	200 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	2,367.24	219.60
26 25 00 00-0065	EA	400 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	6,006.40	494.08
26 25 00 00-0066	EA	600 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	8,933.38	860.06
26 25 00 00-0067		600 Volt, 3-Pole, 3-Fuse (26 25 00 00-0059)		
26 25 00 00-0068	EA	30 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	965.88	100.64
26 25 00 00-0069	EA	60 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	1,051.49	100.64
26 25 00 00-0070	EA	100 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	1,419.23	100.64
26 25 00 00-0071	EA	200 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	2,430.52	210.45
26 25 00 00-0072	EA	400 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	5,981.96	475.78
26 25 00 00-0073	EA	600 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	9,106.67	914.96
26 25 00 00-0074	EA	800 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses	15,042.06	1,189.45
26 25 00 00-0075		120/208 Volt, 4-pole, 3 Fuse (26 25 00 00-0059)		
26 25 00 00-0076	EA	30 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses	1,072.34	118.94
26 25 00 00-0077	EA	60 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses	1,147.12	118.94
26 25 00 00-0078	EA	100 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses	1,551.54	118.94
26 25 00 00-0079	EA	200 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses	2,631.54	247.04
26 25 00 00-0080	EA	400 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses	6,582.91	548.98
26 25 00 00-0081	EA	600 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses	9,570.08	841.77
26 25 00 00-0082		277/480 Volt, 4-pole, 3-Fuse (26 25 00 00-0059)		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Enclosed Bus Assemblies		26 25	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0083	EA		30 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,108.84	118.94
26 25 00 00-0084	EA		60 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,183.62	100.92
26 25 00 00-0085	EA		100 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,658.01	137.25
26 25 00 00-0086	EA		200 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	2,745.10	247.04
26 25 00 00-0087	EA		400 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	6,582.91	548.98
26 25 00 00-0088	EA		600 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	9,570.08	841.77
26 25 00 00-0089	EA		800 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	15,230.56	1,116.26
26 25 00 00-0090			Feeder Bus Duct (26 25 00 00-0001) Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 00 00-0091			600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 00 00-0090) Note: Copper conductors.		
26 25 00 00-0092	LF		800 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	754.71	38.43
			For Up To 25, Add	188.68	
			For >25 To 50, Add	113.21	
			For >50 To 100, Add	56.60	
26 25 00 00-0093	LF		1,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	764.27	38.43
			For Up To 25, Add	191.07	
			For >25 To 50, Add	114.64	
			For >50 To 100, Add	57.32	
26 25 00 00-0094	LF		1,350 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,002.62	38.43
			For Up To 25, Add	250.66	
			For >25 To 50, Add	150.39	
			For >50 To 100, Add	75.20	
26 25 00 00-0095	LF		1,600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,205.67	38.43
			For Up To 25, Add	301.42	
			For >25 To 50, Add	180.85	
			For >50 To 100, Add	90.43	
26 25 00 00-0096	LF		2,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,474.66	38.43
			For Up To 25, Add	368.67	
			For >25 To 50, Add	221.20	
			For >50 To 100, Add	110.60	
26 25 00 00-0097	LF		3,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	2,011.77	91.50
			For Up To 25, Add	502.94	
			For >25 To 50, Add	301.77	
			For >50 To 100, Add	150.88	
26 25 00 00-0098	LF		4,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	2,783.85	91.50
			For Up To 25, Add	695.96	
			For >25 To 50, Add	417.58	
			For >50 To 100, Add	208.79	
26 25 00 00-0099	LF		5,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	3,293.51	91.50
			For Up To 25, Add	823.38	
			For >25 To 50, Add	494.03	
			For >50 To 100, Add	247.01	
26 25 00 00-0100	LF		6,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	4,059.14	91.50
			For Up To 25, Add	1,014.79	
			For >25 To 50, Add	608.87	
			For >50 To 100, Add	304.44	
26 25 00 00-0101			277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated (26 25 00 00-0090) Note: Low impedance, copper conductors.		
26 25 00 00-0102	LF		800 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	866.77	41.17
			For Up To 25, Add	216.69	
			For >25 To 50, Add	130.02	
			For >50 To 100, Add	65.01	
26 25 00 00-0103	LF		1,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	879.14	41.17
			For Up To 25, Add	219.79	
			For >25 To 50, Add	131.87	
			For >50 To 100, Add	65.94	
26 25 00 00-0104	LF		1,350 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	1,133.42	41.17
			For Up To 25, Add	283.36	
			For >25 To 50, Add	170.01	
			For >50 To 100, Add	85.01	
26 25 00 00-0105	LF		1,600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	1,343.77	41.17
			For Up To 25, Add	335.94	
			For >25 To 50, Add	201.57	
			For >50 To 100, Add	100.78	
26 25 00 00-0106	LF		2,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	1,624.10	41.17
			For Up To 25, Add	406.03	
			For >25 To 50, Add	243.62	
			For >50 To 100, Add	121.81	
26 25 00 00-0107	LF		3,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	2,498.41	70.45
			For Up To 25, Add	624.60	
			For >25 To 50, Add	374.76	
			For >50 To 100, Add	187.38	
26 25 00 00-0108	LF		4,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	3,133.98	70.45
			For Up To 25, Add	783.50	
			For >25 To 50, Add	470.10	
			For >50 To 100, Add	235.05	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0109 LF 5,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	3,707.69 926.92 556.15 278.08	130.84
26 25 00 00-0110 LF 6,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	4,575.91 1,143.98 686.39 343.19	130.84

26 26 Power Distribution Units (26 20)

Note: Includes wiring connections and testing.

26 26 00 00-0001 Liebert Precision Power Center (26 26)

Note: With K20 Trans Spike Suppression Modules Lighting/Surge Arrestors. Includes start-up.

26 26 00 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	11,827.35	281.35
26 26 00 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	14,265.10	304.96
26 26 00 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	16,253.16	338.54
26 26 00 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	18,689.84	365.98
26 26 00 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	20,420.92	457.49
26 26 00 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	22,926.06	548.98
26 26 00 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	26,455.67	640.48
26 26 00 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	28,028.26	731.97
26 26 00 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	29,439.75	823.47
26 26 00 00-0011 EA Ex Panelboard 10-30 KVA	1,079.97	91.50
26 26 00 00-0012 EA Ex Panelboard 50-125 KVA	1,603.81	114.37
26 26 00 00-0013 EA Ex Panelboard 150-220 KVA	3,561.91	137.25
26 26 00 00-0014 EA Removal And Reinstallation Of Power Distribution Unit	1,463.95	
Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.		
26 26 00 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only	1,097.96	

26 27 Low-Voltage Distribution Equipment (26 20)**26 27 13 Electricity Metering** (26 27)**26 27 13 00-0001 Revenue Metering** (26 27 13)**26 27 13 00-0002 Meter Socket Base** (26 27 13 00-0001)

Note: NEMA 3R.

26 27 13 00-0003 EA 100 Amp, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	252.61	59.47
26 27 13 00-0004 EA 100 Amp, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	270.30	59.47
26 27 13 00-0005 EA 200 Amp, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	340.99	73.20
26 27 13 00-0006 EA 200 Amp, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	346.02	73.20
26 27 13 00-0007 EA 200 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	717.15	82.35
26 27 13 00-0008 EA 320 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass, And Jaw Release	968.37	91.50
26 27 13 00-0009 EA 400 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass, And Jaw Release	2,494.99	100.64
26 27 13 00-0010 EA Combination Motor And Current Transformer Cabinet, 15-30 A, 13 Terminal, Underground, With Test Switch And Transformer - Socket Base	2,586.22	457.49

26 27 13 00-0011 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand.

26 27 13 00-0012 EA 100 To 200 Amp, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	275.65	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 27 13 00-0013 EA 200 Amp, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	803.95	18.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		

26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0015 EA Current Transformer Cover, Screwed, 18" x 24" x 9", NEMA 3R	508.73	118.94

26 27 13 00-0016 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)**26 27 13 00-0017 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max., 2 Pole** (26 27 13 00-0016)

26 27 13 00-0018 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	1,087.49	57.19
26 27 13 00-0019 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	1,436.64	68.62
26 27 13 00-0020 EA 5 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	1,783.88	80.06
26 27 13 00-0021 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	2,068.17	91.50
26 27 13 00-0022 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	2,705.45	102.93
26 27 13 00-0023 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	2,919.13	114.37
26 27 13 00-0024 EA 10 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	3,403.74	137.25

26 27 13 00-0025 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0026 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	2,041.53	57.19
26 27 13 00-0027 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	2,694.07	68.62
26 27 13 00-0028 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	3,712.95	91.50
26 27 13 00-0029 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	4,117.42	102.93
26 27 13 00-0030 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	5,189.73	114.37



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0031 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0016)		
26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,671.31	80.06
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,205.55	91.50
26 27 13 00-0034 EA 5 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,705.45	102.93
26 27 13 00-0035 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	3,186.26	114.37
26 27 13 00-0036 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	4,029.60	125.81
26 27 13 00-0037 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	4,224.22	137.25
26 27 13 00-0038 EA 10 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	5,243.06	160.11
26 27 13 00-0039 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0016)		
26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,621.53	80.06
26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	3,445.80	91.50
26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	4,865.36	114.37
26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	5,212.60	125.81
26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	6,685.60	137.25
26 27 13 00-0045 120/208 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)		
26 27 13 00-0046 800 Amp Bus, 5 Jaw Sockets, 125 A Max., 2 Pole (26 27 13 00-0045)		
26 27 13 00-0047 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	1,179.05	68.62
26 27 13 00-0048 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	1,549.19	80.06
26 27 13 00-0049 EA 5 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	1,917.43	91.50
26 27 13 00-0050 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	2,228.43	102.93
26 27 13 00-0051 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	2,747.40	114.37
26 27 13 00-0052 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	2,961.08	125.81
26 27 13 00-0053 EA 10 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	3,655.58	148.68
26 27 13 00-0054 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0055 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,140.73	68.62
26 27 13 00-0056 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,831.42	80.06
26 27 13 00-0057 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	4,098.34	102.93
26 27 13 00-0058 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	4,502.83	114.37
26 27 13 00-0059 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	5,460.68	125.81
26 27 13 00-0060 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,762.90	91.50
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,304.77	102.93
26 27 13 00-0063 EA 5 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,861.90	114.37
26 27 13 00-0064 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,342.72	125.81
26 27 13 00-0065 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	4,224.26	137.25
26 27 13 00-0066 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	4,418.81	148.68
26 27 13 00-0067 EA 10 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	5,514.03	171.56
26 27 13 00-0068 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0069 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,739.83	91.50
26 27 13 00-0070 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,621.34	102.93
26 27 13 00-0071 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	5,212.63	125.81
26 27 13 00-0072 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	5,445.38	137.25
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	6,937.47	148.68
26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0075 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	1,087.49	57.19
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	1,436.64	68.62
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,068.17	91.50
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,705.45	102.93
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	3,357.98	114.37
26 27 13 00-0081 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,041.53	57.19
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,694.06	68.62
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	3,903.74	91.50
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	4,308.23	102.93
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	5,189.73	114.37
26 27 13 00-0087 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,671.31	80.06
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,205.55	91.50
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	3,186.26	114.37
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	4,029.60	125.81

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	4,224.22	137.25
26 27 13 00-0093 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,621.54	80.06
26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	3,445.80	91.50
26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	4,865.36	114.37
26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	5,212.60	125.81
26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	6,685.63	137.25
26 27 13 00-0099 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0100 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0101 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,179.05	68.62
26 27 13 00-0102 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,549.19	80.06
26 27 13 00-0103 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,228.43	102.93
26 27 13 00-0104 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,938.21	114.37
26 27 13 00-0105 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	3,342.69	125.81
26 27 13 00-0106 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,140.72	68.62
26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,831.41	80.06
26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	3,907.54	102.93
26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	4,312.02	114.37
26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	5,460.65	125.81
26 27 13 00-0112 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,762.88	91.50
26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,304.75	102.93
26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,342.69	125.81
26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	4,224.22	137.25
26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	4,418.81	148.68
26 27 13 00-0118 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,739.81	91.50
26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,621.32	102.93
26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	5,212.60	125.81
26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	5,445.38	137.25
26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	6,937.47	148.68
26 27 13 00-0124 Watt/Hour Meters (26 27 13)		
26 27 13 00-0125 EA Single Phase M-90 Meter, Socket, NEMA 3R Enclosure	1,132.82	54.90
26 27 13 00-0126 EA Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	3,523.95	109.79
26 27 13 00-0127 EA Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,837.48	82.35
26 27 13 00-0128 EA Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	2,273.25	82.35
26 27 13 00-0129 EA Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure	1,901.49	82.35
26 27 13 00-0130 EA C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,301.92	75.94
26 27 13 00-0131 EA P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	2,219.43	137.25
26 27 13 00-0132 Watt/Hour Meter Systems (26 27 13)		
Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		
26 27 13 00-0133 Watt/Hour Meter System Without Main Breaker (26 27 13 00-0132)		
26 27 13 00-0134 EA 400 Amp System; 200 Amp M-90 Meter And Enclosure	5,521.66	549.07
26 27 13 00-0135 EA 600-800 Amp System; 200 Amp M-90 Meter And Enclosure	6,550.07	549.07
26 27 13 00-0136 Watt/Hour Meter System With Main Breaker (26 27 13 00-0132)		
26 27 13 00-0137 EA 400 Amp System; 400 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure	10,036.91	549.07
26 27 13 00-0138 EA 600 Amp System; 600 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure	12,279.42	549.07
26 27 13 00-0139 EA 800 Amp System; 800 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure	13,230.45	549.07
26 27 16 Electrical Cabinets And Enclosures (26 27)		
Note: Can be used as enclosure or pull/junction boxes.		
26 27 16 00-0001 NEMA 1 Enclosures (26 27 16)		
26 27 16 00-0002 Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0003 4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)		
26 27 16 00-0004 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	53.69	18.30
26 27 16 00-0005 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	59.86	20.13
26 27 16 00-0006 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	66.09	21.95



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0007	EA		8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	77.14	25.62
26 27 16 00-0008	EA		10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	83.62	27.45
26 27 16 00-0009	EA		10" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	90.47	29.28
26 27 16 00-0010	EA		12" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	90.29	29.28
26 27 16 00-0011	EA		12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	97.25	31.11
26 27 16 00-0012	EA		12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	104.50	32.94
26 27 16 00-0013	EA		16" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	136.56	43.92
26 27 16 00-0014	EA		16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	165.48	53.07
26 27 16 00-0015	EA		18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	157.92	51.23
26 27 16 00-0016 6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)					
26 27 16 00-0017	EA		6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	66.44	21.95
26 27 16 00-0018	EA		8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	79.76	25.62
26 27 16 00-0019	EA		10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	95.67	31.11
26 27 16 00-0020	EA		10" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	102.78	32.94
26 27 16 00-0021	EA		12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	110.01	34.77
26 27 16 00-0022	EA		12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	117.48	36.59
26 27 16 00-0023	EA		16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	150.13	47.58
26 27 16 00-0024	EA		16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	182.79	58.56
26 27 16 00-0025	EA		18" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	176.49	56.73
26 27 16 00-0026	EA		18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	229.25	73.20
26 27 16 00-0027	EA		24" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	285.75	84.18
26 27 16 00-0028	EA		24" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	322.44	91.50
26 27 16 00-0029	EA		30" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	354.71	96.99
26 27 16 00-0030	EA		36" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	382.42	100.64
26 27 16 00-0031 Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)					
26 27 16 00-0032 3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)					
26 27 16 00-0033	EA		4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	38.47	12.81
26 27 16 00-0034	EA		6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	54.98	18.30
26 27 16 00-0035	EA		8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	61.19	20.13
26 27 16 00-0036 4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)					
26 27 16 00-0037	EA		4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	43.15	14.64
26 27 16 00-0038	EA		6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	53.58	18.30
26 27 16 00-0039	EA		6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	59.70	20.13
26 27 16 00-0040	EA		8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	65.92	21.95
26 27 16 00-0041	EA		8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	76.91	25.62
26 27 16 00-0042	EA		10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	83.37	27.45
26 27 16 00-0043	EA		10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	90.13	29.28
26 27 16 00-0044	EA		12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	89.91	29.28
26 27 16 00-0045	EA		12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	96.91	31.11
26 27 16 00-0046	EA		12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	104.10	32.94
26 27 16 00-0047	EA		16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	136.56	43.92
26 27 16 00-0048	EA		16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	169.45	54.90
26 27 16 00-0049	EA		18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	157.37	51.23
26 27 16 00-0050	EA		18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	203.61	65.87
26 27 16 00-0051	EA		24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	287.92	82.35
26 27 16 00-0052 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)					
26 27 16 00-0053	EA		6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	66.23	21.95
26 27 16 00-0054	EA		8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	72.85	23.79
26 27 16 00-0055	EA		8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	83.98	27.45
26 27 16 00-0056	EA		10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	95.32	31.11
26 27 16 00-0057	EA		10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	102.42	32.94
26 27 16 00-0058	EA		12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	109.58	34.77
26 27 16 00-0059	EA		12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	116.99	36.59
26 27 16 00-0060	EA		16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	150.13	47.58
26 27 16 00-0061	EA		16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	184.52	58.56
26 27 16 00-0062	EA		18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	175.87	56.73
26 27 16 00-0063	EA		18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	228.40	73.20
26 27 16 00-0064	EA		24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	281.84	84.18
26 27 16 00-0065	EA		24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	320.64	91.50
26 27 16 00-0066	EA		30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	345.33	96.99
26 27 16 00-0067	EA		36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	375.16	100.64
26 27 16 00-0068 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)					
26 27 16 00-0069	EA		8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	95.32	31.11
26 27 16 00-0070	EA		12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	129.00	40.26
26 27 16 00-0071	EA		16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	164.03	51.23
26 27 16 00-0072	EA		16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	203.79	64.05
26 27 16 00-0073	EA		18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	195.26	62.22
26 27 16 00-0074	EA		18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	241.77	76.86
26 27 16 00-0075	EA		24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	270.65	87.84

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0076	EA	24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	309.85	93.33	
26 27 16 00-0077	EA	24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	353.46	100.64	
26 27 16 00-0078	EA	30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	375.63	106.14	
26 27 16 00-0079	EA	30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	393.83	109.79	
26 27 16 00-0080	EA	36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	402.88	109.79	
26 27 16 00-0081		10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)			
26 27 16 00-0082	EA	18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	221.08	69.54	
26 27 16 00-0083	EA	18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	290.08	89.66	
26 27 16 00-0084	EA	24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	295.72	95.15	
26 27 16 00-0085	EA	24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	373.70	102.48	
26 27 16 00-0086	EA	24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	427.95	113.46	
26 27 16 00-0087	EA	30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	470.76	117.12	
26 27 16 00-0088	EA	36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	501.07	122.61	
26 27 16 00-0089		12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)			
26 27 16 00-0090	EA	18" x 18" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	320.18	98.82	
26 27 16 00-0091	EA	24" x 12" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	321.69	104.30	
26 27 16 00-0092	EA	24" x 18" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	411.25	113.46	
26 27 16 00-0093	EA	24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	467.41	124.43	
26 27 16 00-0094	EA	30" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	519.89	129.92	
26 27 16 00-0095	EA	36" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	547.58	135.41	
26 27 16 00-0096		NEMA 12 Enclosures (26 27 16)			
		Note: Dust-tight enclosures.			
26 27 16 00-0097		Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0096)			
26 27 16 00-0098		4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0097)			
26 27 16 00-0099	EA	4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	66.60	14.64	
26 27 16 00-0100	EA	6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	87.65	20.13	
26 27 16 00-0101	EA	8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	109.05	25.62	
26 27 16 00-0102	EA	10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	117.81	27.45	
26 27 16 00-0103	EA	12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	130.95	29.28	
26 27 16 00-0104	EA	12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	140.68	31.11	
26 27 16 00-0105		6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0097)			
26 27 16 00-0106	EA	6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	96.98	21.95	
26 27 16 00-0107	EA	8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	106.50	23.79	
26 27 16 00-0108		Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0096)			
26 27 16 00-0109		4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0108)			
26 27 16 00-0110	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	70.23	14.64	
26 27 16 00-0111	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	88.97	20.13	
26 27 16 00-0112	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	99.14	21.95	
26 27 16 00-0113	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	114.34	25.62	
26 27 16 00-0114	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	119.62	27.45	
26 27 16 00-0115	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	135.50	29.28	
26 27 16 00-0116	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	144.88	31.11	
26 27 16 00-0117	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	160.34	32.94	
26 27 16 00-0118		6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0108)			
26 27 16 00-0119	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	103.64	21.95	
26 27 16 00-0120	EA	8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	115.26	23.79	
26 27 16 00-0121	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	128.43	27.45	
26 27 16 00-0122	EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	152.77	32.94	
26 27 16 00-0123	EA	12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	167.43	36.59	
26 27 16 00-0124	EA	16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	226.53	47.58	
26 27 16 00-0125	EA	18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	350.07	73.20	
26 27 16 00-0126	EA	24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	437.02	84.18	
26 27 16 00-0127	EA	24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	486.44	91.50	
26 27 16 00-0128		8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0108)			
26 27 16 00-0129	EA	24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	465.90	93.33	
26 27 16 00-0130	EA	24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	524.22	100.64	
26 27 16 00-0131	EA	30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	567.96	106.14	
26 27 16 00-0132	EA	30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	612.91	109.79	
26 27 16 00-0133	EA	36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	607.26	109.79	
26 27 16 00-0134		Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0096)			



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0135		8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0134)		
26 27 16 00-0136	EA	60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	1,514.04	148.68
26 27 16 00-0137		10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0134)		
26 27 16 00-0138	EA	60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	1,550.15	164.69
26 27 16 00-0139	EA	60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	1,759.35	176.13
26 27 16 00-0140	EA	72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	2,048.96	219.60
26 27 16 00-0141	EA	72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	2,308.12	258.93
26 27 16 00-0142		12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0134)		
26 27 16 00-0143	EA	60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	1,776.02	258.93
26 27 16 00-0144	EA	60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	1,958.99	274.49
26 27 16 00-0145	EA	72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	2,197.11	292.79
26 27 16 00-0146	EA	72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	2,379.92	292.79
26 27 16 00-0147		NEMA 3 Enclosures (26 27 16) Note: Can be used underground or encased in concrete.		
26 27 16 00-0148		2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0149	EA	4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	220.57	64.05
26 27 16 00-0150		3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0151	EA	4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	235.20	64.05
26 27 16 00-0152	EA	5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	295.17	66.33
26 27 16 00-0153	EA	6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	305.12	66.33
26 27 16 00-0154	EA	6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	378.24	68.62
26 27 16 00-0155		4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0156	EA	4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	292.47	66.33
26 27 16 00-0157	EA	5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	318.51	66.33
26 27 16 00-0158	EA	6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	331.84	68.62
26 27 16 00-0159	EA	6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	411.81	68.62
26 27 16 00-0160	EA	8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	451.92	73.20
26 27 16 00-0161	EA	8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	486.11	77.77
26 27 16 00-0162	EA	10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	505.13	77.77
26 27 16 00-0163	EA	10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	596.39	80.06
26 27 16 00-0164	EA	12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	645.46	82.35
26 27 16 00-0165	EA	12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	876.41	91.50
26 27 16 00-0166		6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0167	EA	6" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	434.39	70.91
26 27 16 00-0168	EA	8" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	544.23	80.06
26 27 16 00-0169	EA	8" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	633.76	82.35
26 27 16 00-0170	EA	10" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	726.88	84.63
26 27 16 00-0171	EA	10" x 10" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	771.75	84.63
26 27 16 00-0172	EA	12" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	876.16	91.50
26 27 16 00-0173	EA	12" x 12" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,012.50	102.93
26 27 16 00-0174	EA	16" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	954.53	98.36
26 27 16 00-0175	EA	18" x 12" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,853.01	182.99
26 27 16 00-0176	EA	18" x 18" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,180.53	228.74
26 27 16 00-0177		8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0178	EA	8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	779.52	86.93
26 27 16 00-0179	EA	12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,166.74	114.37
26 27 16 00-0180	EA	12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,185.06	114.37
26 27 16 00-0181	EA	16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,611.11	171.56
26 27 16 00-0182	EA	18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,107.52	182.99
26 27 16 00-0183	EA	24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,299.58	320.24
26 27 16 00-0184		10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0185	EA	18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,805.02	228.74
26 27 16 00-0186		12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0187	EA	18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,288.10	274.49
26 27 16 00-0188	EA	24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,535.20	251.62

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 27 16 00-0189	NEMA 3R Enclosures (26 27 16) Note: Rain-tight enclosures.				
26 27 16 00-0190	Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0189)				
26 27 16 00-0191	4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)				
26 27 16 00-0192	EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	61.25		18.30	
26 27 16 00-0193	EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	67.52		20.13	
26 27 16 00-0194	EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	85.71		20.13	
26 27 16 00-0195	6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)				
26 27 16 00-0196	EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	113.41		27.45	
26 27 16 00-0197	EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	127.27		31.11	
26 27 16 00-0198	EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	147.21		34.77	
26 27 16 00-0199	EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	157.92		36.59	
26 27 16 00-0200	EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	205.50		47.58	
26 27 16 00-0201	EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	247.80		58.56	
26 27 16 00-0202	EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	290.82		73.20	
26 27 16 00-0203	8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)				
26 27 16 00-0204	EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	419.70		93.33	
26 27 16 00-0205	EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	461.95		100.64	
26 27 16 00-0206	EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	511.19		106.14	
26 27 16 00-0207	EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	535.40		109.79	
26 27 16 00-0208	10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)				
26 27 16 00-0209	EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	517.62		113.46	
26 27 16 00-0210	EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	584.64		128.10	
26 27 16 00-0211	EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	647.49		141.82	
26 27 16 00-0212	EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	712.68		156.46	
26 27 16 00-0213	EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	776.44		170.18	
26 27 16 00-0214	EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	356.45		89.66	
26 27 16 00-0215	EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	517.62		113.46	
26 27 16 00-0216	EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	591.67		117.12	
26 27 16 00-0217	EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	724.14		128.10	
26 27 16 00-0218	12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)				
26 27 16 00-0219	EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	477.87		90.58	
26 27 16 00-0220	EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	536.30		101.57	
26 27 16 00-0221	EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	593.83		112.54	
26 27 16 00-0222	EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	656.02		124.43	
26 27 16 00-0223	EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	714.46		135.41	
26 27 16 00-0224	EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	357.23		67.71	
26 27 16 00-0225	EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	477.87		90.58	
26 27 16 00-0226	EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	536.30		101.57	
26 27 16 00-0227	EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	627.26		118.94	
26 27 16 00-0228	EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	714.46		135.41	
26 27 16 00-0229	EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	685.07		133.58	
26 27 16 00-0230	EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	714.46		135.41	
26 27 16 00-0231	EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	748.19		139.07	
26 27 16 00-0232	EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	822.92		146.40	
26 27 16 00-0233	EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	886.30		153.71	
26 27 16 00-0234	Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0189)				
26 27 16 00-0235	4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)				
26 27 16 00-0236	EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	48.71		14.64	
26 27 16 00-0237	EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	59.39		18.30	
26 27 16 00-0238	EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	65.51		20.13	
26 27 16 00-0239	EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	72.34		21.95	
26 27 16 00-0240	EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	84.10		25.62	
26 27 16 00-0241	EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	91.27		27.45	
26 27 16 00-0242	EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	98.95		29.28	
26 27 16 00-0243	EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	98.61		29.28	
26 27 16 00-0244	EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	107.04		31.11	
26 27 16 00-0245	EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	114.72		32.94	
26 27 16 00-0246	EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	174.53		51.23	
26 27 16 00-0247	EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	230.76		65.87	
26 27 16 00-0248	6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)				
26 27 16 00-0249	EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	69.03		21.95	
26 27 16 00-0250	EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	92.17		27.45	
26 27 16 00-0251	EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	104.42		31.11	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0252	EA	10" x 10" x 6"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	112.55	32.94
26 27 16 00-0253	EA	12" x 8" x 6"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	112.06	32.94
26 27 16 00-0254	EA	12" x 10" x 6"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	120.59	34.77
26 27 16 00-0255	EA	12" x 12" x 6"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	129.17	36.59
26 27 16 00-0256	EA	16" x 12" x 6"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	168.42	47.58
26 27 16 00-0257	EA	18" x 12" x 6"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	195.48	56.73
26 27 16 00-0258	EA	18" x 18" x 6"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	258.81	73.20
26 27 16 00-0259	EA	24" x 12" x 6"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	272.02	78.69
26 27 16 00-0260	EA	24" x 18" x 6"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	306.27	84.18
26 27 16 00-0261	EA	24" x 24" x 6"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	342.28	91.50
26 27 16 00-0262 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)					
26 27 16 00-0263	EA	12" x 12" x 8"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	144.00	40.26
26 27 16 00-0264	EA	18" x 12" x 8"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	211.73	62.22
26 27 16 00-0265	EA	18" x 18" x 8"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	285.97	80.51
26 27 16 00-0266	EA	24" x 18" x 8"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	339.02	93.33
26 27 16 00-0267	EA	24" x 24" x 8"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	379.60	100.64
26 27 16 00-0268	EA	30" x 24" x 8"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	417.13	106.14
26 27 16 00-0269 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)					
26 27 16 00-0270	EA	18" x 18" x 10"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	316.16	89.66
26 27 16 00-0271	EA	24" x 24" x 10"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	419.66	113.46
26 27 16 00-0272	EA	30" x 24" x 10"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	454.47	117.12
26 27 16 00-0273 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)					
26 27 16 00-0274	EA	24" x 24" x 12"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	462.88	124.43
26 27 16 00-0275	EA	30" x 30" x 12"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	614.12	135.41
26 27 16 00-0276	EA	36" x 30" x 12"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	633.98	139.07
26 27 16 00-0277	EA	36" x 36" x 12"	Screw Cover, Galvanized Steel NEMA 3R Enclosure	728.35	146.40
26 27 16 00-0278 NEMA 4 Enclosures (26 27 16)					
Note: Water-tight enclosures.					
26 27 16 00-0279 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0278)					
26 27 16 00-0280	EA	4" x 4" x 3"	Hinge Cover, Painted Steel NEMA 4 Enclosure	73.15	12.81
26 27 16 00-0281	EA	6" x 4" x 3"	Hinge Cover, Painted Steel NEMA 4 Enclosure	85.85	15.55
26 27 16 00-0282	EA	8" x 6" x 3.5"	Hinge Cover, Painted Steel NEMA 4 Enclosure	107.62	20.13
26 27 16 00-0283	EA	6" x 6" x 4"	Hinge Cover, Painted Steel NEMA 4 Enclosure	102.95	20.13
26 27 16 00-0284	EA	10" x 8" x 4"	Hinge Cover, Painted Steel NEMA 4 Enclosure	137.90	27.45
26 27 16 00-0285	EA	12" x 10" x 5"	Hinge Cover, Painted Steel NEMA 4 Enclosure	171.10	32.94
26 27 16 00-0286	EA	10" x 8" x 6"	Hinge Cover, Painted Steel NEMA 4 Enclosure	158.43	31.11
26 27 16 00-0287	EA	12" x 12" x 6"	Hinge Cover, Painted Steel NEMA 4 Enclosure	184.90	36.59
26 27 16 00-0288	EA	14" x 12" x 6"	Hinge Cover, Painted Steel NEMA 4 Enclosure	217.01	42.09
26 27 16 00-0289	EA	16" x 14" x 6"	Hinge Cover, Painted Steel NEMA 4 Enclosure	264.21	53.07
26 27 16 00-0290 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0278)					
26 27 16 00-0291	EA	4" x 4" x 3"	Clamp Cover, Painted Steel NEMA 4 Enclosure	67.72	12.81
26 27 16 00-0292	EA	6" x 6" x 4"	Clamp Cover, Painted Steel NEMA 4 Enclosure	97.53	20.13
26 27 16 00-0293 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0278)					
26 27 16 00-0294	EA	6" x 6" x 4"	Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure	85.87	17.57
26 27 16 00-0295	EA	8" x 6" x 4"	Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure	91.43	19.03
26 27 16 00-0296	EA	10" x 8" x 6"	Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure	113.09	24.89
26 27 16 00-0297	EA	12" x 10" x 6"	Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure	131.51	27.45
26 27 16 00-0298	EA	14" x 12" x 8"	Screw Cover, Fiberglass NEMA 4 Enclosure	169.40	34.77
26 27 16 00-0299	EA	16" x 14" x 8"	Screw Cover, Fiberglass NEMA 4 Enclosure	198.22	41.17
26 27 16 00-0300	EA	18" x 16" x 10"	Screw Cover, Fiberglass NEMA 4 Enclosure	283.68	65.87
26 27 16 00-0301 NEMA 4X Enclosures (26 27 16)					
Note: Water-tight enclosures.					
26 27 16 00-0302 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0301)					
26 27 16 00-0303	EA	6" x 4" x 3"	Clamp Cover, Aluminum NEMA 4X Enclosure	139.57	14.64
26 27 16 00-0304	EA	6" x 6" x 4"	Clamp Cover, Aluminum NEMA 4X Enclosure	166.14	20.13
26 27 16 00-0305	EA	10" x 8" x 4"	Clamp Cover, Aluminum NEMA 4X Enclosure	211.67	27.45
26 27 16 00-0306	EA	12" x 10" x 5"	Clamp Cover, Aluminum NEMA 4X Enclosure	256.76	32.94
26 27 16 00-0307	EA	14" x 12" x 6"	Clamp Cover, Aluminum NEMA 4X Enclosure	317.36	42.09
26 27 16 00-0308	EA	16" x 14" x 6"	Clamp Cover, Aluminum NEMA 4X Enclosure	376.64	53.07
26 27 16 00-0309 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0301)					
26 27 16 00-0310	EA	4" x 4" x 3"	Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	125.42	12.81
For 316L Stainless Steel, Add				25.22	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0311 EA 6" x 4" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure <i>For 316L Stainless Steel, Add</i>	165.26 32.27	18.30
26 27 16 00-0312 EA 6" x 6" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure <i>For 316L Stainless Steel, Add</i>	186.47 36.76	20.13
26 27 16 00-0313 EA 8" x 6" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure <i>For 316L Stainless Steel, Add</i>	212.02 42.42	21.95
26 27 16 00-0314 EA 10" x 8" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure..... <i>For 316L Stainless Steel, Add</i>	261.02 51.95	27.45
26 27 16 00-0315 EA 12" x 10" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure..... <i>For 316L Stainless Steel, Add</i>	362.16 74.31	34.77
26 27 16 00-0316 EA 14" x 12" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure..... <i>For 316L Stainless Steel, Add</i>	449.84 93.05	42.09
26 27 16 00-0317 EA 16" x 14" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure..... <i>For 316L Stainless Steel, Add</i>	545.33 111.42	53.07
26 27 16 00-0318 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0301) Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0319 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	95.65	20.13
26 27 16 00-0320 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	107.39	21.95
26 27 16 00-0321 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	123.10	25.62
26 27 16 00-0322 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	133.64	27.45
26 27 16 00-0323 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	154.12	31.11
26 27 16 00-0324 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	145.77	31.11
26 27 16 00-0325 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	169.21	34.77
26 27 16 00-0326 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	211.39	42.09
26 27 16 00-0327 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	271.75	57.65
26 27 16 00-0328 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	353.84	82.99
26 27 16 00-0329 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	102.22	20.13
26 27 16 00-0330 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	115.15	21.95
26 27 16 00-0331 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	131.45	25.62
26 27 16 00-0332 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	143.77	27.45
26 27 16 00-0333 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	164.85	31.11
26 27 16 00-0334 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	155.91	31.11
26 27 16 00-0335 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	182.96	34.77
26 27 16 00-0336 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	218.55	42.09
26 27 16 00-0337 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	286.67	57.65
26 27 16 00-0338 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	369.94	82.99
26 27 16 00-0339 Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0301) Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0340 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	114.15	20.13
26 27 16 00-0341 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	122.30	21.95
26 27 16 00-0342 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	139.20	25.62
26 27 16 00-0343 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	150.34	27.45
26 27 16 00-0344 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	177.38	31.11
26 27 16 00-0345 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	164.26	31.11
26 27 16 00-0346 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	200.26	34.77
26 27 16 00-0347 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	238.23	42.09
26 27 16 00-0348 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	295.02	57.65
26 27 16 00-0349 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	384.25	82.99
26 27 16 00-0350 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	118.92	20.13
26 27 16 00-0351 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	131.25	21.95
26 27 16 00-0352 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	147.55	25.62
26 27 16 00-0353 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	159.28	27.45
26 27 16 00-0354 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	189.31	31.11
26 27 16 00-0355 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	174.40	31.11
26 27 16 00-0356 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	212.79	34.77
26 27 16 00-0357 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	244.20	42.09
26 27 16 00-0358 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	314.70	57.65
26 27 16 00-0359 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	405.13	82.99
26 27 16 00-0360 NEMA 7/9 Enclosures (26 27 16) Note: Nominal inside dimensions.		
26 27 16 00-0361 4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0360)		
26 27 16 00-0362 EA 6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	919.20	102.93
<i>For Mounting Pan, Add</i>	37.76	
26 27 16 00-0363 EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	741.48	109.79
<i>For Mounting Pan, Add</i>	70.36	
26 27 16 00-0364 EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,421.38	123.52
<i>For Mounting Pan, Add</i>	97.02	
26 27 16 00-0365 6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0360)		
26 27 16 00-0366 EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,268.14	123.52
<i>For Mounting Pan, Add</i>	49.34	



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Distribution Equipment			26 27

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0367	EA	8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,641.97 97.02	126.95
26 27 16 00-0368	EA	8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,682.34 74.22	137.25
26 27 16 00-0369	EA	10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,725.41 86.83	137.25
26 27 16 00-0370	EA	10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,432.59 113.92	171.56
26 27 16 00-0371	EA	12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,290.99 71.13	154.40
26 27 16 00-0372	EA	12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,373.62 106.43	171.56
26 27 16 00-0373	EA	12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	3,680.02 143.19	308.81
26 27 16 00-0374	EA	14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,909.82 139.42	205.87
26 27 16 00-0375	EA	16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	3,841.20 127.99	343.12
26 27 16 00-0376	EA	18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	4,582.81 208.08	343.12
26 27 16 00-0377		8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0360)		
26 27 16 00-0378	EA	8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,961.78 74.22	154.40
26 27 16 00-0379	EA	10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,975.17 86.83	154.40
26 27 16 00-0380	EA	10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,230.10 113.92	154.40
26 27 16 00-0381	EA	12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,471.31 71.13	171.56
26 27 16 00-0382	EA	12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	3,610.96 106.43	308.81
26 27 16 00-0383	EA	12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	4,394.59 143.19	377.43
26 27 16 00-0384	EA	12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	6,856.31 215.34	446.04
26 27 16 00-0385	EA	14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	3,968.81 139.42	377.43
26 27 16 00-0386	EA	16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	4,073.73 127.99	377.43
26 27 16 00-0387	EA	16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	6,022.65 191.86	411.73
26 27 16 00-0388	EA	18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	4,986.03 208.08	377.43
26 27 16 00-0389	EA	18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	6,631.56 304.27	411.73
26 27 16 00-0390	EA	18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	6,587.02 405.63	411.73
26 27 16 00-0391	EA	18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	10,198.63 506.96	548.98
26 27 16 00-0392	EA	24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	7,770.78 471.39	446.04
26 27 16 00-0393	EA	24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	14,041.06 645.33	686.22
26 27 16 00-0394		10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0360)		
26 27 16 00-0395	EA	12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	7,126.18 215.34	446.04
26 27 16 00-0396	EA	16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	6,560.19 191.86	411.73
26 27 16 00-0397	EA	18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	7,146.27 304.27	446.04
26 27 16 00-0398	EA	18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	9,001.49 506.96	480.35
26 27 16 00-0399	EA	24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	7,982.17 471.39	480.35
26 27 16 00-0400	EA	24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	15,277.40 645.33	686.22
26 27 16 00-0401		12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0360)		
26 27 16 00-0402	EA	12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	4,490.84 143.19	377.43
26 27 16 00-0403		Breaker Enclosures (26 27 16) See CSI section 26 24 16 00-0001 for lighting and power panel boards.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0404		15 To 100 Amp, F-Frame Breaker Enclosures (26 27 16 00-0403)		
26 27 16 00-0405	EA	NEMA 1, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	310.70	73.20
26 27 16 00-0406	EA	NEMA 3R, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	581.05	73.20
26 27 16 00-0407	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	1,445.26	100.64
26 27 16 00-0408	EA	NEMA 7, Cast Aluminum, 15 To 100 Amp, F-Frame Breaker Enclosure.....	1,963.41	109.79
26 27 16 00-0409	EA	NEMA 9, Cast Aluminum, 15 To 100 Amp, F-Frame Breaker Enclosure.....	1,427.05	109.79
26 27 16 00-0410	EA	NEMA 12, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	492.53	100.64
26 27 16 00-0411		15 To 250 Amp, H Or J-Frame Breaker Enclosures (26 27 16 00-0403)		
26 27 16 00-0412	EA	NEMA 1, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	498.59	100.64
26 27 16 00-0413	EA	NEMA 3R, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	931.52	100.64
26 27 16 00-0414	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	3,216.15	128.10
26 27 16 00-0415	EA	NEMA 12, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	762.11	128.10
26 27 16 00-0416		125 To 400 Amp, L-Frame Breaker Enclosures (26 27 16 00-0403)		
26 27 16 00-0417	EA	NEMA 1, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	773.77	201.29
26 27 16 00-0418	EA	NEMA 3R, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	1,841.34	201.29
26 27 16 00-0419	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	5,443.96	256.19
26 27 16 00-0420	EA	NEMA 12, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	1,297.28	256.19
26 27 16 00-0421		300 To 800 Amp, M-Frame Breaker Enclosures (26 27 16 00-0403)		
26 27 16 00-0422	EA	NEMA 1, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	1,517.09	384.29
26 27 16 00-0423	EA	NEMA 3R, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	2,645.44	384.29
26 27 16 00-0424	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	9,789.74	494.08
26 27 16 00-0425	EA	NEMA 12, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	5,263.30	494.08
26 27 16 00-0426		250 To 1,200 Amp, P-Frame Breaker Enclosures (26 27 16 00-0403)		
26 27 16 00-0427	EA	NEMA 1, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure.....	1,863.94	384.29
26 27 16 00-0428	EA	NEMA 3R, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure.....	3,193.97	384.29
26 27 16 00-0429	EA	NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure.....	6,636.79	494.08
26 27 16 00-0430		Legend Plates (26 27 16)		
26 27 16 00-0431	EA	3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters.....	11.63	4.58
26 27 16 00-0432	EA	3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters.....	17.58	4.58
26 27 23		Indoor Service Poles (26 27)		
26 27 23 00-0001		Communication And Power Poles (26 27 23)		
		Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002		Steel Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0003		2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0004		2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)		
26 27 23 00-0005	EA	2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	236.72	40.56
26 27 23 00-0006	EA	2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	256.94	40.56
26 27 23 00-0007	EA	2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	280.31	40.56
26 27 23 00-0008		Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)		
		Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009	EA	Add-On Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	37.74	8.37
26 27 23 00-0010	EA	Add-On Cover Plate For Three Duplex Receptacles.....	42.09	8.37
26 27 23 00-0011	EA	Add-On Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	47.59	8.37
26 27 23 00-0012	EA	Add-On Cover Plate For Data And A/V Modular Devices.....	35.40	8.37
26 27 23 00-0013	EA	Add-On Radius Control Entrance End Fitting.....	29.25	8.37
26 27 23 00-0014		2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0015		2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
26 27 23 00-0016	EA	2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	306.04	40.56
26 27 23 00-0017	EA	2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	349.48	40.56
26 27 23 00-0018	EA	2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	372.92	40.56
26 27 23 00-0019		Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
		Note: Excludes receptacles and communication jacks.		



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0020 EA Add-On Cover Plate For One Single Receptacle.....	32.68	8.37
26 27 23 00-0021 EA Add-On Cover Plate For One Duplex Receptacle.....	29.44	8.37
26 27 23 00-0022 EA Add-On Cover Plate For Data And A/V Modular Devices	31.76	8.37
26 27 23 00-0023 3" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0024 3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	398.09	40.56
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	450.38	40.56
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	484.85	40.56
26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On Cover Plate For One Single Receptacle.....	32.68	8.37
26 27 23 00-0030 EA Add-On Cover Plate For One Duplex Receptacle.....	29.44	8.37
26 27 23 00-0031 EA Add-On Cover Plate For Data And A/V Modular Devices	31.76	8.37
26 27 23 00-0032 Aluminum Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	319.64	40.56
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	356.20	40.56
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	397.18	40.56
26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0039 EA Add-On Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	49.72	8.37
26 27 23 00-0040 EA Add-On Cover Plate For Three Duplex Receptacles	50.75	8.37
26 27 23 00-0041 EA Add-On Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	54.18	8.37
26 27 23 00-0042 EA Add-On Cover Plate For Data And A/V Modular Devices	37.32	8.37
26 27 23 00-0043 EA Add-On Radius Control Entrance End Fitting	29.25	8.37
26 27 23 00-0044 2-1/4" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0045 EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	308.22	40.56
26 27 23 00-0046 EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	345.72	40.56
26 27 23 00-0047 EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	389.89	40.56
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	642.20	40.56
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	734.16	40.56
26 27 23 00-0051 EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	837.15	40.56
26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole (26 27 23 00-0032)		
26 27 23 00-0053 EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	350.13	40.56
26 27 23 00-0054 EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole	331.60	40.56
26 27 23 00-0055 EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole	424.09	40.56
26 27 26 Wiring Devices (26 27)		
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
26 27 26 00-0001 Receptacles (26 27 26)		
26 27 26 00-0002 General Use Receptacles (26 27 26 00-0001)		
26 27 26 00-0003 Receptacle Assemblies (26 27 26 00-0002)		
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004 EA 1 Gang, 15 Amp, NEMA 5-15, Duplex Receptacle Assembly.....	73.24	32.49
26 27 26 00-0005 EA 1 Gang, 20 Amp, NEMA 5-20, Duplex Receptacle Assembly.....	79.15	34.77
26 27 26 00-0006 EA 2 Gang, 15 Amp, NEMA 5-15, Duplex Receptacle Assembly.....	96.04	41.63
26 27 26 00-0007 EA 2 Gang, 20 Amp, NEMA 5-20, Duplex Receptacle Assembly.....	107.86	46.20
26 27 26 00-0008 EA 1 Gang, 15 Amp, GFI, Duplex Receptacle Assembly	91.32	32.49
26 27 26 00-0009 EA 1 Gang, 20 Amp, GFI, Duplex Receptacle Assembly	98.19	34.77
26 27 26 00-0010 Receptacle Components (26 27 26 00-0002)		
26 27 26 00-0011 EA 15 Amp, NEMA 5-15, Single Receptacle, 125 Volt, 1 Phase.....	23.23	9.15
26 27 26 00-0012 EA 15 Amp, NEMA 5-15, Duplex Receptacle, 125 Volt, 1 Phase.....	22.18	9.15
26 27 26 00-0013 EA 15 Amp, Single Receptacle, 120/277 Volt, 3 Wire	28.39	9.15
26 27 26 00-0014 EA 15 Amp, Duplex Receptacle, 120/277 Volt, 3 Wire.....	31.99	9.15

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0015 EA 15 Amp, NEMA 6-15, Single Receptacle, 250 Volt, 1 Phase.....	41.15	11.43
26 27 26 00-0016 EA 15 Amp, NEMA 6-15, Duplex Receptacle, 250 Volt, 1 Phase.....	52.95	11.43
26 27 26 00-0017 EA 20 Amp, NEMA 5-20, Single Receptacle, 125 Volt, 1 Phase.....	24.62	9.15
26 27 26 00-0018 EA 20 Amp, NEMA 5-20, Duplex Receptacle, 125 Volt, 1 Phase.....	23.51	9.15
26 27 26 00-0019 EA 20 Amp, Single Receptacle, 120/277 Volt.....	39.72	9.15
26 27 26 00-0020 EA 20 Amp, Duplex Receptacle, 120/277 Volt.....	30.86	9.15
26 27 26 00-0021 EA 20 Amp, NEMA 6-20, Single Receptacle, 250 Volt, 1 Phase.....	41.15	11.43
26 27 26 00-0022 EA 20 Amp, NEMA 6-20, Duplex Receptacle, 250 Volt, 1 Phase.....	52.95	11.43
26 27 26 00-0023 EA 20 Amp, NEMA 14-20, Single Receptacle, 125/250 Volt, 1 Phase.....	90.83	11.43
26 27 26 00-0024 EA 20 Amp, NEMA 15-20, Single Receptacle, 250 Volt, 3 Phase.....	90.83	11.43
26 27 26 00-0025 EA 25 Amp, Duplex Receptacle, 120/277 Volt.....	71.09	13.73
26 27 26 00-0026 Specialty Receptacles (26 27 26 00-0001)		
26 27 26 00-0027 Specialty Receptacles (26 27 26 00-0026)		
26 27 26 00-0028 EA 30 Amp, NEMA 5-30, Single Receptacle, 125 Volt, 1 Phase.....	58.82	16.01
26 27 26 00-0029 EA 30 Amp, NEMA 6-30, Single Receptacle, 250 Volt, 1 Phase.....	58.82	16.01
26 27 26 00-0030 EA 30 Amp, NEMA 10-30 Single Receptacles, 125/250 Volt.....	54.94	16.01
26 27 26 00-0031 EA 30 Amp, NEMA 14-30, Single Receptacle, 125/250 Volt, 1 Phase.....	99.97	16.01
26 27 26 00-0032 EA 30 Amp, NEMA 15-30, Single Receptacle, 250 Volt, 3 Phase.....	104.54	18.30
26 27 26 00-0033 EA 50 Amp, NEMA 5-50, Single Receptacle, 125 Volt, 1 Phase.....	94.72	18.30
26 27 26 00-0034 EA 50 Amp, NEMA 6-50, Single Receptacle, 250 Volt, 1 Phase.....	91.96	18.30
26 27 26 00-0035 EA 50 Amp, NEMA 7-50 Single Receptacles, 277 Volt.....	77.69	18.30
26 27 26 00-0036 EA 50 Amp, NEMA 10-50 Single Receptacles, 125/250 Volt.....	65.94	18.30
26 27 26 00-0037 EA 50 Amp, NEMA 14-50, Single Receptacle, 125/250 Volt, 1 Phase.....	119.64	18.30
26 27 26 00-0038 EA 50 Amp, NEMA 15-50, Single Receptacle, 250 Volt, 3 Phase.....	124.22	20.58
26 27 26 00-0039 EA 60 Amp, NEMA 14-60, Single Receptacle, 125/250 Volt, 1 Phase.....	136.35	22.88
26 27 26 00-0040 EA 60 Amp, NEMA 15-60, Single Receptacle, 250 Volt, 3 Phase.....	145.50	27.45
26 27 26 00-0041 EA 100 Amp, 3 Phase, 480 Volt Joy Receptacle With Box - Complete.....	1,438.28	215.02
26 27 26 00-0042 EA 400 Amp, 4 Pole Weatherproof Generator Receptacle With Box - Complete.....	3,866.02	263.05
26 27 26 00-0043 EA 30 Amp, Dryer Receptacle, 230 Volt.....	71.24	18.30
26 27 26 00-0044 EA 60 Amp, Range Receptacle, 230 Volt.....	103.45	27.45
26 27 26 00-0045 EA 15 Or 20 Amp, Clock Hanger Receptacle, 120/277 Volt.....	74.47	11.43
26 27 26 00-0046 EA Cable Reel With 20 Amp, 120 Volt Receptacle - Complete.....	1,440.00	278.80
26 27 26 00-0047 Isolated Ground Receptacles (26 27 26 00-0026)		
26 27 26 00-0048 EA 15 Amp, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex.....	56.64	9.15
Note: 2 Pole, 3 wire.		
26 27 26 00-0049 EA 20 Amp, 120 Volt Isolated Ground Receptacles, Simplex.....	61.03	11.43
26 27 26 00-0050 EA 20 Amp, 120 Volt Isolated Ground Receptacles, Duplex.....	60.76	11.43
26 27 26 00-0051 EA 30 Amp, 120 Volt Isolated Ground Receptacles, Simplex.....	81.29	18.30
26 27 26 00-0052 EA Locking 15 Amp, 250 Volt Isolated Ground Receptacles.....	70.12	11.43
26 27 26 00-0053 EA Locking 15 Amp, 277 Volt Isolated Ground Receptacles.....	63.05	11.43
26 27 26 00-0054 EA Locking 20 Amp, 120/208 Volt Isolated Ground Receptacles.....	89.74	13.73
26 27 26 00-0055 EA Locking 20 Amp, 277/480 Volt Isolated Ground Receptacles.....	67.72	13.73
26 27 26 00-0056 EA Locking 20 Amp, 347/600 Volt Isolated Ground Receptacles.....	92.35	13.73
26 27 26 00-0057 EA Locking 30 Amp, 120/208 Volt Isolated Ground Receptacles.....	116.36	13.73
26 27 26 00-0058 EA Locking 30 Amp, 277 Volt Isolated Ground Receptacles.....	108.57	18.30
26 27 26 00-0059 Explosion Proof Receptacles (26 27 26 00-0026)		
26 27 26 00-0060 EA 1/2", 20 Amp, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	537.29	22.88
26 27 26 00-0061 EA 3/4", 20 Amp, 2 Watt., 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	496.90	25.16
26 27 26 00-0062 EA 3/4", 30 Amp, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	827.91	45.75
26 27 26 00-0063 EA 3/4", 30 Amp, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,037.51	45.75
26 27 26 00-0064 EA 1-1/4", 60 Amp, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,317.69	68.62
26 27 26 00-0065 EA 1-1/4", 60 Amp, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,257.01	68.62
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)		
26 27 26 00-0067 EA 15 Amp Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle.....	37.96	11.43
26 27 26 00-0068 EA 20 Amp Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle.....	51.69	13.73
26 27 26 00-0069 EA 15 Amp, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle.....	41.09	15.57
26 27 26 00-0070 EA 20 Amp, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle.....	70.23	18.30
26 27 26 00-0071 Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)		
26 27 26 00-0072 EA 15 Amp, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	77.38	11.43
26 27 26 00-0073 EA 20 Amp, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	86.14	11.43
26 27 26 00-0074 Locking Receptacle (26 27 26 00-0026)		
26 27 26 00-0075 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amp, Locking Receptacle.....	37.29	11.43
26 27 26 00-0076 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amp, Locking Receptacle.....	44.77	11.43
26 27 26 00-0077 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	41.78	13.73
26 27 26 00-0078 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	41.45	13.73
26 27 26 00-0079 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	48.03	13.73
26 27 26 00-0080 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	56.53	13.73



Electrical		26	26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0081 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amp, Locking Receptacle.....	55.59	13.73
26 27 26 00-0082 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amp, Locking Receptacle.....	49.37	13.73
26 27 26 00-0083 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amp, Locking Receptacle.....	57.39	18.30
26 27 26 00-0084 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amp, Locking, Receptacle.....	58.18	18.30
26 27 26 00-0085 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amp, Locking Receptacle.....	118.29	18.30
26 27 26 00-0086 Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)		
26 27 26 00-0087 EA 20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W).....	189.37	45.75
26 27 26 00-0088 EA 20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W).....	188.96	45.75
26 27 26 00-0089 EA 20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W).....	196.60	45.75
26 27 26 00-0090 EA 20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W).....	238.11	50.32
26 27 26 00-0091 EA 20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W).....	238.74	50.32
26 27 26 00-0092 EA 20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W).....	237.27	50.32
26 27 26 00-0093 EA 30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W).....	283.12	56.27
26 27 26 00-0094 EA 30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W).....	270.70	56.27
26 27 26 00-0095 EA 30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W).....	290.14	56.27
26 27 26 00-0096 EA 30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W).....	294.62	61.77
26 27 26 00-0097 EA 30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W).....	294.38	61.77
26 27 26 00-0098 EA 30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W).....	296.14	61.77
26 27 26 00-0099 EA 60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W).....	410.16	73.20
26 27 26 00-0100 EA 60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W).....	395.12	73.20
26 27 26 00-0101 EA 60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W).....	404.91	73.20
26 27 26 00-0102 EA 60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W).....	450.88	81.44
26 27 26 00-0103 EA 60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W).....	451.17	81.44
26 27 26 00-0104 EA 60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W).....	451.46	81.44
26 27 26 00-0105 EA 100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W).....	502.12	91.50
26 27 26 00-0106 EA 100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W).....	521.39	91.50
26 27 26 00-0107 EA 100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W).....	561.64	100.64
26 27 26 00-0108 EA 100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W).....	560.19	100.64
26 27 26 00-0109 EA 100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W).....	562.91	100.64
26 27 26 00-0110 Corrosion Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0111 EA 15/20 Amp, 125 Volt Corrosion Resistant, Power Receptacles.....	81.32	9.15
26 27 26 00-0112 EA 15/20 Amp, 250 Volt Corrosion Resistant, Power Receptacles.....	171.79	11.43
26 27 26 00-0113 Tamper Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0114 EA 15 Amp, 125 Volt Duplex Tamper Resistant Receptacle.....	21.51	9.15
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0115 EA 20 Amp, 125 Volt Duplex Tamper Resistant Receptacle.....	23.16	9.15
Note: Pass & Seymour TR20.		
26 27 26 00-0116 EA 15 Amp, 125 Volt Single Specification Grade Tamper Resistant Receptacle.....	27.90	9.15
Note: Pass & Seymour TR5251.		
26 27 26 00-0117 EA 20 Amp, 125 Volt Single Specification Grade Tamper Resistant Receptacle.....	30.12	9.15
Note: Pass & Seymour TR5351.		
26 27 26 00-0118 EA 15 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle.....	43.47	9.15
Note: Pass & Seymour S1595-TR*CC8.		
26 27 26 00-0119 EA 15 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	46.65	9.15
Note: Pass & Seymour 1595-TRS.		
26 27 26 00-0120 EA 20 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	49.69	9.15
Note: Pass & Seymour 2095-TRS.		
26 27 26 00-0121 USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)		
26 27 26 00-0122 EA 15 Amp, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	44.65	9.15
26 27 26 00-0123 EA 20 Amp, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	47.95	9.15
26 27 26 00-0124 Television Receptacle (26 27 26 00-0001)		
26 27 26 00-0125 EA TV Receptacle With Cover (Type F) - Complete.....	69.03	21.22
26 27 26 00-0126 Switches (26 27 26)		
26 27 26 00-0127 Switches (26 27 26 00-0126)		
26 27 26 00-0128 Switch Assemblies (26 27 26 00-0127)		
Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0129 EA 1 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly.....	78.14	32.02
26 27 26 00-0130 EA 1 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly.....	84.29	34.77
26 27 26 00-0131 EA 2 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly.....	108.12	41.85
26 27 26 00-0132 EA 2 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly.....	118.58	46.43
26 27 26 00-0133 EA 3 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly.....	182.50	71.83
26 27 26 00-0134 EA 3 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly.....	198.19	78.69
26 27 26 00-0135 EA 4 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly.....	212.33	81.20
26 27 26 00-0136 EA 4 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly.....	233.24	90.35

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0137 Switch Components (26 27 26 00-0127)				
26 27 26 00-0138	EA	15 Amp, 120/277 Volt, SPST Switch.....	27.99	9.15
26 27 26 00-0139	EA	15 Amp, 120/277 Volt, 3-Way Switch.....	35.61	11.43
26 27 26 00-0140	EA	15 Amp, 120/277 Volt, 4-Way Switch.....	73.53	18.30
26 27 26 00-0141	EA	15 Amp, 120/277 Volt, DPST Switch.....	33.63	9.15
26 27 26 00-0142	EA	15 Amp, 120/277 Volt, Thermal Switch.....	71.05	11.43
26 27 26 00-0143	EA	20 Amp, 120/277 Volt, SPST Switch.....	33.22	11.43
26 27 26 00-0144	EA	20 Amp, 120/277 Volt, 3-Way Switch.....	41.59	13.73
26 27 26 00-0145	EA	20 Amp, 120/277 Volt, 4-Way Switch.....	107.06	18.30
26 27 26 00-0146	EA	20 Amp, 120/277 Volt, DPST Switch.....	42.26	11.43
26 27 26 00-0147	EA	20 Amp, 120/277 Volt, DPDT Switch.....	46.26	11.43
26 27 26 00-0148	EA	15 Amp, 120/277 Volt, Single Pole, Momentary Contact Switch, Toggle, Three Position, Center Off.....	50.83	11.45
26 27 26 00-0149	EA	15 Amp, 120/277 Volt, Momentary Contact Switch, Key Operated, Single Pole, Three Position, Center Off.....	63.40	11.45
26 27 26 00-0150	EA	Momentary Contact Switch With Separate Neon Pilot..... Note: Neon Pilot is 125 V, 1 / 125W.	49.54	13.75
26 27 26 00-0151	EA	20 Amp, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off..... Note: Or 250 VAC 10 Amp, double throw BAT handle.	52.09	16.01
26 27 26 00-0152	EA	20 Amp, 125 Volt AC, Double Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	65.83	18.30
26 27 26 00-0153	EA	20 Amp, 125 Volt AC, Three Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	107.14	18.30
26 27 26 00-0154	EA	30 Amp, 120/277 Volt, Single Pole Local Switch.....	52.62	18.32
26 27 26 00-0155	EA	30 Amp, 120/277 Volt, Double Pole Local Switch.....	63.92	18.32
26 27 26 00-0156	EA	30 Amp, 120/277 Volt, Three-Way Local Switch.....	67.68	22.91
26 27 26 00-0157	EA	30 Amp, 120/277 Volt, Four-Way Local Switch.....	92.98	25.20
26 27 26 00-0158	EA	15 Amp, 120/277 Volt, Local Switch With Neon Pilot.....	48.54	14.98
26 27 26 00-0159	EA	15 Amp, 120/277 Volt, Local Switch With Separate Neon Pilot..... Note: Neon pilot is 125V, 1/25W, Requires 2 gang installation.	65.76	14.98
26 27 26 00-0160	EA	15 Amp, 120 Volt, Single Pole Lighted Toggle Switch, Clear Toggle, Lighted In On Position.....	58.33	14.98
26 27 26 00-0161	EA	15 Amp, 120 Volt, Lighted Toggle Switch, Ivory Toggle, Lighted In Off Position.....	55.78	14.98
26 27 26 00-0162	EA	Automatic Door Switch, Door Open-Light On, 6 Amp, 125 Volt.....	57.62	7.43
26 27 26 00-0163	EA	Automatic Door Switch, Door Closed-Light On, 6 Amp, 125 Volt.....	61.08	7.43
26 27 26 00-0164	EA	15 Amp, 120/277 Volt, Single Pole Momentary Contact Switch, Three Position, Center Off, Toggle.....	67.97	28.59
26 27 26 00-0165	EA	Momentary Contact Switch, Three Position, Center Off, Key Operated..... Note: 15A, 120/277 V, Single Pole	80.54	28.59
26 27 26 00-0166	EA	Single Pole, Slide Dimmer (Leviton IP710-LFZ).....	92.54	9.16
26 27 26 00-0167	EA	8 Amp, 120/277 Volt, 0-10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	88.14	9.16
26 27 26 00-0168	EA	Sunrise Electronic Wall Dimmer, 1200VA 0-10V LED and Fluorescent (Philips SR1200ZTUNV).....	94.60	9.16
26 27 26 00-0169	EA	1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	110.05	9.16
26 27 26 00-0170	EA	2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	143.77	9.16
26 27 26 00-0171 Specialty Switches (26 27 26 00-0126)				
26 27 26 00-0172 Dimmers With SPST Switch (26 27 26 00-0171)				
26 27 26 00-0173	EA	600 Watt Dimmers With SPST Switch.....	62.12	20.58
26 27 26 00-0174	EA	1,000 Watt Dimmers With SPST Switch.....	127.48	20.58
26 27 26 00-0175	EA	1,500 Watt Dimmers With SPST Switch.....	235.04	33.12
26 27 26 00-0176	EA	2,000 Watt Dimmers With SPST Switch.....	318.44	33.12
26 27 26 00-0177	EA	600 Watt Fluorescent Dimmer Switch.....	169.05	24.43
26 27 26 00-0178	EA	1,000 Watt Fluorescent Dimmer Switch.....	240.81	24.43
26 27 26 00-0179	EA	1,500 Watt Fluorescent Dimmer Switch.....	446.06	36.87
26 27 26 00-0180	EA	Remote Speed Switch For Paddle Fan.....	107.11	30.47
26 27 26 00-0181	EA	600 Watt Combination Remote Speed Switch/Incandescent Dimmer.....	183.31	45.47
26 27 26 00-0182 Time Switches (26 27 26 00-0171)				
26 27 26 00-0183	EA	40 Amp, SPST, 125 Volt, Standard Time Switch.....	130.40	27.45
26 27 26 00-0184	EA	40 Amp, SPST, 277 Volt, Standard Time Switch.....	134.17	27.45
26 27 26 00-0185	EA	40 Amp, DPST, 125 Volt, Standard Time Switch.....	130.40	27.45
26 27 26 00-0186	EA	40 Amp, DPST, 277 Volt, Standard Time Switch.....	134.17	27.45
26 27 26 00-0187	EA	40 Amp, SPST, 125 Volt, 7-Day Time Switch.....	155.57	27.45
26 27 26 00-0188	EA	40 Amp, SPST, 277 Volt, 7-Day Time Switch.....	155.57	27.45
26 27 26 00-0189	EA	40 Amp, DPDT, 125 Volt, 7-Day Time Switch.....	304.05	27.45
26 27 26 00-0190	EA	40 Amp, DPDT, 277 Volt, 7-Day Time Switch.....	304.05	27.45
26 27 26 00-0191	EA	20 Amp, SPST, 125 Volt, Programmable Time Switch.....	256.41	27.45
26 27 26 00-0192	EA	20 Amp, SPST, 277 Volt, Programmable Time Switch.....	285.50	27.45
26 27 26 00-0193	EA	20 Amp, SPST, 277 Volt, Programmable Time Switch - Weatherproof.....	285.50	27.45
26 27 26 00-0194	EA	40 Amp, 4PST, 125 Volt, Astro Dial Time Switch.....	354.25	27.45
26 27 26 00-0195	EA	40 Amp, 4PST, 277 Volt, Astro Dial Time Switch.....	365.83	27.45
26 27 26 00-0196	EA	40 Amp, SPST, 125 Volt, Standard Time Switch - Weatherproof.....	130.40	27.45
26 27 26 00-0197	EA	40 Amp, SPST, 277 Volt, Standard Time Switch - Weatherproof.....	134.17	27.45
26 27 26 00-0198	EA	40 Amp, DPST, 125 Volt, Standard Time Switch - Weatherproof.....	130.40	27.45
26 27 26 00-0199	EA	40 Amp, DPST, 277 Volt, Standard Time Switch - Weatherproof.....	134.17	27.45
26 27 26 00-0200	EA	40 Amp, SPST, 125 Volt, 7-Day Time Switch - Weatherproof.....	155.57	27.45
26 27 26 00-0201	EA	40 Amp, SPST, 277 Volt, 7-Day Time Switch - Weatherproof.....	155.57	27.45
26 27 26 00-0202	EA	40 Amp, DPDT, 125 Volt, 7-Day Time Switch - Weatherproof.....	304.05	27.45
26 27 26 00-0203	EA	40 Amp, DPDT, 277 Volt, 7-Day Time Switch - Weatherproof.....	304.05	27.45
26 27 26 00-0204	EA	40 Amp, 4PST, 125 Volt, Astro Dial Time Switch - Weatherproof.....	354.25	27.45
26 27 26 00-0205	EA	40 Amp, 4PST, 277 Volt, Astro Dial Time Switch - Weatherproof.....	365.83	27.45



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Distribution Equipment	26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0206 Low Voltage Switching (26 27 26 00-0171)		
26 27 26 00-0207 EA 36 Pin Male Or Female Connector	262.39	9.15
26 27 26 00-0208 Other Switches (26 27 26 00-0171)		
26 27 26 00-0209 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	32.12	13.73
26 27 26 00-0210 EA Locking Switch, SPST Concealed Devices	105.67	36.59
26 27 26 00-0211 EA Locking Switch, 3-Way Concealed Devices	107.68	36.59
26 27 26 00-0212 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard	125.93	34.22
26 27 26 00-0213 EA 15 Amp Momentary Contact Switch	117.69	34.22
26 27 26 00-0214 EA 20 Amp Momentary Contact Switch	126.37	34.22
26 27 26 00-0215 EA 2-1/4" Handy Box Cover Units Fuseholder Switch	106.69	41.24
26 27 26 00-0216 EA 2-3/4" Handy Box Cover Units Fuseholder Switch	109.12	41.24
26 27 26 00-0217 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches	134.70	50.40
26 27 26 00-0218 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	122.51	45.82
26 27 26 00-0219 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	123.12	45.82
26 27 26 00-0220 Plates And Covers (26 27 26)		
26 27 26 00-0221 Wall Plates (26 27 26 00-0220)		
26 27 26 00-0222 Nylon Wall Plates (26 27 26 00-0221)		
26 27 26 00-0223 EA 1 Gang Nylon Switch Plate	1.32	0.46
26 27 26 00-0224 EA 2 Gang Nylon Switch Plate	2.19	0.68
26 27 26 00-0225 EA 3 Gang Nylon Switch Plate	3.10	0.91
26 27 26 00-0226 EA 4 Gang Nylon Switch Plate	4.38	1.14
26 27 26 00-0227 EA 1 Gang Duplex Nylon Wall Plate	1.33	0.46
26 27 26 00-0228 EA 2 Gang Duplex Nylon Wall Plate	2.24	0.68
26 27 26 00-0229 Plastic Wall Plates (26 27 26 00-0221)		
26 27 26 00-0230 EA 1 Gang Plastic Switch Plate	1.24	0.46
26 27 26 00-0231 EA 2 Gang Plastic Switch Plate	2.03	0.68
26 27 26 00-0232 EA 3 Gang Plastic Switch Plate	2.84	0.91
26 27 26 00-0233 EA 4 Gang Plastic Switch Plate	4.38	1.14
26 27 26 00-0234 EA 1 Gang Duplex Plastic Wall Plate	1.24	0.46
26 27 26 00-0235 EA 2 Gang Duplex Plastic Wall Plate	2.04	0.68
26 27 26 00-0236 Brass Wall Plates (26 27 26 00-0221)		
26 27 26 00-0237 EA 1 Gang 0.04" Brass Switch Plate	11.87	2.06
26 27 26 00-0238 EA 2 Gang 0.04" Brass Switch Plate	21.59	2.38
26 27 26 00-0239 EA 3 Gang 0.04" Brass Switch Plate	31.21	2.66
26 27 26 00-0240 EA 4 Gang 0.04" Brass Switch Plate	47.99	2.89
26 27 26 00-0241 EA 5 Gang 0.04" Brass Switch Plate	58.25	3.07
26 27 26 00-0242 EA 6 Gang 0.04" Brass Switch Plate	67.26	3.21
26 27 26 00-0243 EA 1 Gang 0.04" Brass Duplex Receptacle Wall Plate	11.87	2.06
26 27 26 00-0244 EA 2 Gang 0.04" Brass Duplex Receptacle Wall Plate	25.12	2.38
26 27 26 00-0245 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate	35.86	2.66
26 27 26 00-0246 Stainless Steel Wall Plates (26 27 26 00-0221)		
26 27 26 00-0247 EA 1 Gang, 302 Stainless Steel Switch Plate With Satin Finish	6.78	2.06
26 27 26 00-0248 EA 2 Gang, 302 Stainless Steel Switch Plate With Satin Finish	10.46	2.38
26 27 26 00-0249 EA 3 Gang, 302 Stainless Steel Switch Plate With Satin Finish	14.31	2.66
26 27 26 00-0250 EA 4 Gang, 302 Stainless Steel Switch Plate With Satin Finish	20.53	2.89
26 27 26 00-0251 EA 5 Gang, 302 Stainless Steel Switch Plate With Satin Finish	24.03	3.07
26 27 26 00-0252 EA 6 Gang, 302 Stainless Steel Switch Plate With Satin Finish	28.84	3.21
26 27 26 00-0253 EA 1 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	7.34	2.06
26 27 26 00-0254 EA 2 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	11.78	2.38
26 27 26 00-0255 EA 3 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	18.68	2.66
26 27 26 00-0256 EA 4 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	22.43	2.89
26 27 26 00-0257 Chrome Wall Plates (26 27 26 00-0221)		
26 27 26 00-0258 EA 1 Gang 0.040" Chrome Switch Plate With Chromium Finish	22.84	2.06
26 27 26 00-0259 EA 2 Gang 0.040" Chrome Switch Plate With Chromium Finish	42.14	2.38
26 27 26 00-0260 EA 3 Gang 0.040" Chrome Switch Plate With Chromium Finish	61.39	2.66
26 27 26 00-0261 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate With Chromium Finish	22.82	2.06
26 27 26 00-0262 Weatherproof Covers (26 27 26 00-0220)		
26 27 26 00-0263 Stamped Metallic Weatherproof Covers (26 27 26 00-0262)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0264 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	7.90	0.46
26 27 26 00-0265 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC)	8.55	0.46
26 27 26 00-0266 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC)	8.55	0.46

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0267	EA	Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	8.55		0.46
26 27 26 00-0268	EA	Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	10.53		0.68
26 27 26 00-0269	EA	Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC)	11.92		0.68
26 27 26 00-0270	EA	Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC)	12.06		0.68
26 27 26 00-0271	EA	Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC)	12.06		0.68
26 27 26 00-0272	EA	Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC)	16.32		0.68
26 27 26 00-0273	EA	Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	15.56		0.91
26 27 26 00-0274	EA	Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT)	16.99		0.91
26 27 26 00-0275 Cast Metallic Weatherproof Covers (26 27 26 00-0262)					
Note: Includes electrostatically applied powder coating and neoprene gasket.					
26 27 26 00-0276	EA	Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC)	9.64		0.46
26 27 26 00-0277	EA	Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA)	30.48		0.46
26 27 26 00-0278	EA	Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR)	34.17		0.46
26 27 26 00-0279	EA	Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG)	9.57		0.46
26 27 26 00-0280	EA	Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	25.86		0.46
26 27 26 00-0281	EA	Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	42.93		0.46
26 27 26 00-0282	EA	Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	54.62		0.46
26 27 26 00-0283	EA	Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC)	12.06		0.68
26 27 26 00-0284	EA	Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST)	86.27		0.68
26 27 26 00-0285	EA	Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC)	20.13		0.91
26 27 26 00-0286	EA	Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST)	82.51		0.91
26 27 26 00-0287 Die Cast Aluminum Weatherproof Covers (26 27 26 00-0262)					
Note: Includes electrostatically applied powder coating and neoprene gasket.					
26 27 26 00-0288	EA	Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	3.36		0.46
26 27 26 00-0289	EA	Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026)	4.26		0.46
26 27 26 00-0290	EA	Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032)	5.75		0.68
26 27 26 00-0291	EA	Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	6.22		0.68
26 27 26 00-0292	EA	Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042)	6.22		0.68
26 27 26 00-0293	EA	Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043)	6.89		0.68
26 27 26 00-0294 Heavy Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0262)					
Note: Includes baked on lacquer finish and neoprene gasket.					
26 27 26 00-0295	EA	Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510)	32.56		0.46
26 27 26 00-0296 Polycarbonate Weatherproof Covers (26 27 26 00-0262)					
Note: Includes neoprene gasket.					
26 27 26 00-0297	EA	Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	6.71		0.46
26 27 26 00-0298	EA	Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	6.71		0.46
26 27 26 00-0299	EA	Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	6.71		0.46
26 27 26 00-0300	EA	Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	8.35		0.68
26 27 26 00-0301	EA	Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	8.35		0.68
26 27 26 00-0302 High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0262)					
Note: Includes neoprene gasket.					
26 27 26 00-0303	EA	Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	50.71		0.46
26 27 26 00-0304 Non Metallic (PVC) Weatherproof Covers (26 27 26 00-0262)					
Note: Includes neoprene gasket.					
26 27 26 00-0305	EA	Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover	7.41		0.46
26 27 26 00-0306	EA	Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover	8.07		0.68
26 27 26 00-0307	EA	Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	7.44		0.46
26 27 26 00-0308	EA	Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	16.11		0.46
26 27 26 00-0309	EA	Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	18.63		0.46
26 27 26 00-0310	EA	20 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	15.15		0.46
26 27 26 00-0311	EA	30 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	11.35		0.46
26 27 26 00-0312	EA	50 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	13.24		0.46
26 27 26 00-0313	EA	Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	11.86		0.46
26 27 26 00-0314	EA	Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover	17.10		0.68
26 27 26 00-0315 Removal And Reinstallation Of Wiring Devices (26 27 26)					
Note: Includes storage and cleaning.					
26 27 26 00-0316	EA	Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device	60.19		
26 27 26 00-0317	EA	Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate	7.63		
26 27 26 00-0318 In Line Midget Fuseholders (26 27 26)					
See CSI section 26 28 13 00-0078 for fuses.					
26 27 26 00-0319	EA	Single Pole Water Resistant In Line Midget Fuseholder	59.27		



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Low-Voltage Distribution Equipment			26 27	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0320	EA	Double Pole Water Resistant In Line Midget Fuseholder	125.60		
26 27 26 00-0321 Relay Systems (26 27 26)					
26 27 26 00-0322	EA	Relay 2 Position, 10 Amp, 24 Volt Coil	63.67		20.58
26 27 26 00-0323	EA	Industrial Control Relay 20 Amp, 120 Volt Coil Up To 4 Contacts	258.31		68.62
26 27 26 00-0324	EA	Industrial Control Relay 20 Amp, 120 Volt Coil 12 Contacts	425.32		91.50
26 27 26 00-0325 Limit Switches (26 27 26)					
26 27 26 00-0326		Heavy Duty Precision Oiltight (26 27 26 00-0325)			
26 27 26 00-0327		Lever Arm, Plunger, Wobble Stick Type (26 27 26 00-0326)			
26 27 26 00-0328	EA	Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amp Rated	363.63		57.65
26 27 73 Door Chimes (26 27)					
26 27 73 00-0001 Door Bell System (26 27 73)					
26 27 73 00-0002	EA	Door Bell, Push-button And Transformer - Complete	585.19		190.59
26 27 73 00-0003	EA	Visual Flashing Doorbell Indicator, Wire To Existing System - Complete	283.00		45.75
26 27 73 00-0004	EA	Replacement Bell/Buzzer - Complete	108.66		22.88
Note: Includes removal of existing.					
26 28 Low-Voltage Circuit Protective Devices (26 28)					
26 28 13 Fuses (26 28)					
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)					
26 28 13 00-0002	EA	1 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	19.75		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0003	EA	2 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	19.34		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0004	EA	3 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	18.79		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0005	EA	5 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	18.71		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0006	EA	6 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	19.23		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0007	EA	8 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	18.22		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0008	EA	10 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	17.98		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0009	EA	15 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	16.01		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0010	EA	20 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	15.71		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0011	EA	25 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	16.28		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0012	EA	30 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	15.88		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)					
26 28 13 00-0014 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)					
26 28 13 00-0015	EA	1 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	29.43		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0016	EA	2 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	27.65		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0017	EA	3 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	28.89		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0018	EA	4 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	28.73		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0019	EA	5 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	27.48		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0020	EA	10 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	26.74		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0021	EA	15 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	24.77		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0022	EA	20 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	24.62		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0023	EA	25 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	24.78		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0024	EA	30 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	24.58		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0025	EA	35 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	32.97		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		
26 28 13 00-0026	EA	40 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	32.37		6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			4.39		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0027 EA 45 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	32.82	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0028 EA 50 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	32.45	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0029 EA 60 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	31.91	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0030 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuses (26 28		
13 00-0013)		
26 28 13 00-0031 EA 70 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	57.85	8.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0032 EA 80 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	57.55	8.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0033 EA 90 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	63.57	8.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0034 EA 100 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	57.08	8.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0035 EA 110 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	156.21	8.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0036 EA 125 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	115.16	8.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0037 EA 150 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	106.41	9.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	
26 28 13 00-0038 EA 200 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	111.88	9.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	
26 28 13 00-0039 EA 250 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	206.32	9.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	
26 28 13 00-0040 EA 300 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	222.55	11.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.41	
26 28 13 00-0041 EA 350 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	238.91	11.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.41	
26 28 13 00-0042 EA 400 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	185.25	11.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.41	
26 28 13 00-0043 EA 450 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	406.61	11.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.41	
26 28 13 00-0044 EA 500 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	386.13	13.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 28 13 00-0045 EA 600 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	302.47	13.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 28 13 00-0046 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26		
28 13 00-0013)		
26 28 13 00-0047 EA 1 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	44.10	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0048 EA 2 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	41.26	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0049 EA 3 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	38.88	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0050 EA 4 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	39.67	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0051 EA 5 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	38.99	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0052 EA 10 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	39.23	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0053 EA 15 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	36.64	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0054 EA 20 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	36.38	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0055 EA 25 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	36.03	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0056 EA 30 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	36.55	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0057 EA 35 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	51.93	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0058 EA 40 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	52.05	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0059 EA 45 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	51.08	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0060 EA 50 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	51.54	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0061 EA 60 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	51.94	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses (26 28		
13 00-0013)		
26 28 13 00-0063 EA 70 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	95.81	8.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0064 EA 80 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	98.41	9.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	
26 28 13 00-0065 EA 90 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	97.90	9.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0066 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	98.30	9.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	
26 28 13 00-0067 EA 110 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	177.11	9.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	
26 28 13 00-0068 EA 125 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	179.73	9.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	
26 28 13 00-0069 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	178.32	11.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.41	
26 28 13 00-0070 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	177.89	11.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.41	
26 28 13 00-0071 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	334.95	11.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.41	
26 28 13 00-0072 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	338.01	13.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 28 13 00-0073 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	380.43	13.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 28 13 00-0074 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	345.22	13.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 28 13 00-0075 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	615.53	13.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 28 13 00-0076 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	550.17	16.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0077 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	480.73	16.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses (26 28 13)		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amp, 600 Volt AC, Class CC Midget Fuse.....	33.48	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0080 EA 2 Amp, 600 Volt AC, Class CC Midget Fuse.....	33.95	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0081 EA 3 Amp, 600 Volt AC, Class CC Midget Fuse.....	33.82	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0082 EA 5 Amp, 600 Volt AC, Class CC Midget Fuse.....	33.67	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0083 EA 6 Amp, 600 Volt AC, Class CC Midget Fuse.....	35.90	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0084 EA 8 Amp, 600 Volt AC, Class CC Midget Fuse.....	32.33	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0085 EA 10 Amp, 600 Volt AC, Class CC Midget Fuse.....	36.52	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0086 EA 15 Amp, 600 Volt AC, Class CC Midget Fuse.....	33.68	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0087 EA 20 Amp, 600 Volt AC, Class CC Midget Fuse.....	33.10	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0088 EA 25 Amp, 600 Volt AC, Class CC Midget Fuse.....	31.77	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0089 EA 30 Amp, 600 Volt AC, Class CC Midget Fuse.....	32.90	6.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse (26 28 13)		
26 28 13 00-0091 EA 1 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	41.47	4.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 28 13 00-0092 EA 3 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	41.78	4.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 28 13 00-0093 EA 6 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	36.57	5.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.29	
26 28 13 00-0094 EA 10 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	36.84	6.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 28 13 00-0095 EA 15 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	37.58	6.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 28 13 00-0096 EA 20 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	36.92	6.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.12	
26 28 13 00-0097 EA 25 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	47.16	9.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0098 EA 30 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	39.75	9.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0099 EA 35 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	67.42	9.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0100 EA 40 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	57.89	9.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0101 EA 45 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	65.96	9.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.49	
26 28 13 00-0102 EA 50 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	59.58	11.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 28 13 00-0103 EA 60 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	58.55	11.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 28 13 00-0104 EA 70 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	89.68	13.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 28 13 00-0105 EA 80 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	95.34	13.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0106 EA 90 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	93.90	13.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 28 13 00-0107 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	83.45	16.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.61	
26 28 13 00-0108 EA 110 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	189.00	16.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.61	
26 28 13 00-0109 EA 125 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	161.34	16.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.61	
26 28 13 00-0110 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	154.75	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0111 EA 175 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	156.95	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0112 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	131.22	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0113 EA 225 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	323.64	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0114 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	299.63	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0115 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	276.52	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0116 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	301.12	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0117 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	250.22	20.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 28 13 00-0118 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	524.62	20.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 28 13 00-0119 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	446.89	22.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 28 13 00-0120 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	334.16	22.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses (26 28 13)		
26 28 13 00-0122 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	995.45	11.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 28 13 00-0123 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	997.41	11.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 28 13 00-0124 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	999.23	11.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.86	
26 28 13 00-0125 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	996.79	13.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 28 13 00-0126 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	918.39	13.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 28 13 00-0127 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	983.13	16.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.61	
26 28 13 00-0128 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	905.29	16.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.61	
26 28 13 00-0129 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,011.88	16.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.61	
26 28 13 00-0130 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	992.24	16.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.61	
26 28 13 00-0131 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	883.92	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0132 EA 601 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	907.54	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0133 EA 650 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,204.45	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0134 EA 700 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	879.63	18.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.98	
26 28 13 00-0135 EA 750 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,348.09	20.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 28 13 00-0136 EA 800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	779.58	20.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 28 13 00-0137 EA 900 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,135.05	20.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 28 13 00-0138 EA 1,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	766.59	20.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 28 13 00-0139 EA 1,200 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	789.19	20.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 28 13 00-0140 EA 1,350 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,745.41	20.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 28 13 00-0141 EA 1,400 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,720.99	20.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 28 13 00-0142 EA 1,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,553.45	20.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 28 13 00-0143 EA 1,600 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	974.15	22.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 28 13 00-0144 EA 1,800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,055.32	22.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 28 13 00-0145 EA 2,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,318.77	22.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 28 13 00-0146 EA 2,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,779.87	22.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0147	EA	2,501 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,026.24 13.73	22.88
26 28 13 00-0148	EA	3,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,984.04 15.10	25.16
26 28 13 00-0149	EA	3,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,093.18 15.10	25.16
26 28 13 00-0150	EA	3,800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,748.03 15.10	25.16
26 28 13 00-0151	EA	4,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,749.37 15.10	25.16
26 28 13 00-0152	EA	5,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,333.63 15.10	25.16
26 28 13 00-0153	EA	6,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,167.85 15.10	25.16
26 28 16 Enclosed Switches And Circuit Breakers (26 28)				
26 28 16 00-0001		Motor And Circuit Disconnects (26 28 16) Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 00-0002		NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0001)		
26 28 16 00-0003		Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0002) Note: Includes fuses and neutral bar.		
26 28 16 00-0004		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0005	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	324.18	91.50
26 28 16 00-0006	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	502.89	110.25
26 28 16 00-0007	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	686.72	129.01
26 28 16 00-0008	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,179.20	203.12
26 28 16 00-0009	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,484.58	315.66
26 28 16 00-0010	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,137.13	466.64
26 28 16 00-0011	EA	800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,626.63	548.98
26 28 16 00-0012	EA	1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,535.39	640.48
26 28 16 00-0013		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0014	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	485.96	101.66
26 28 16 00-0015	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	586.29	122.52
26 28 16 00-0016	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	922.22	143.19
26 28 16 00-0017	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,366.38	226.00
26 28 16 00-0018	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,953.40	350.61
26 28 16 00-0019	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,598.36	518.24
26 28 16 00-0020	EA	800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,769.05	609.65
26 28 16 00-0021	EA	1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,224.05	711.66
26 28 16 00-0022		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0023	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	463.88	143.65
26 28 16 00-0024	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	679.33	190.77
26 28 16 00-0025	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	905.83	211.82
26 28 16 00-0026	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,432.19	331.67
26 28 16 00-0027	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,946.44	544.40
26 28 16 00-0028	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,767.95	762.63

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0029			600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0030	EA		30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	600.33	158.74
26 28 16 00-0031	EA		60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	764.98	211.82
26 28 16 00-0032	EA		100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,112.49	238.35
26 28 16 00-0033	EA		200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,640.48	363.25
26 28 16 00-0034	EA		400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,609.52	586.49
26 28 16 00-0035	EA		600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,789.23	847.26
26 28 16 00-0036	EA		800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,144.22	1,006.46
26 28 16 00-0037	EA		1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	11,660.45	1,143.71
26 28 16 00-0038			240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0039	EA		30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	450.32	143.65
26 28 16 00-0040	EA		60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	661.81	190.77
26 28 16 00-0041	EA		100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	873.95	211.82
26 28 16 00-0042	EA		200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,476.03	331.67
26 28 16 00-0043	EA		400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,193.52	544.40
26 28 16 00-0044	EA		600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,139.67	762.63
26 28 16 00-0045	EA		800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,446.80	960.72
26 28 16 00-0046	EA		1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,398.49	1,097.96
26 28 16 00-0047			600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0048	EA		30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	650.08	158.74
26 28 16 00-0049	EA		60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	826.12	211.82
26 28 16 00-0050	EA		100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,201.88	238.35
26 28 16 00-0051	EA		200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,774.31	363.25
26 28 16 00-0052	EA		400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,895.04	586.49
26 28 16 00-0053	EA		600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,293.50	847.26
26 28 16 00-0054	EA		800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,981.44	1,006.46
26 28 16 00-0055	EA		1,200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	12,564.82	1,143.71
26 28 16 00-0056			Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0002)		
26 28 16 00-0057			240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0058	EA		30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	315.60	132.40
26 28 16 00-0059	EA		60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	487.24	184.18
26 28 16 00-0060	EA		100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	665.62	211.82
26 28 16 00-0061	EA		200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,043.68	338.91
26 28 16 00-0062	EA		400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,089.00	564.80
26 28 16 00-0063	EA		600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,394.09	770.22
26 28 16 00-0064	EA		800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,823.60	914.96
26 28 16 00-0065	EA		1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,349.85	1,067.85



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0066 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0067 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	348.58	146.12
26 28 16 00-0068 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	551.49	206.69
26 28 16 00-0069 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	751.76	235.33
26 28 16 00-0070 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,167.16	368.37
26 28 16 00-0071 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,247.48	605.16
26 28 16 00-0072 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,753.75	847.17
26 28 16 00-0073 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,335.38	914.96
26 28 16 00-0074 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,050.72	1,067.85
26 28 16 00-0075 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0076 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	370.88	118.94
26 28 16 00-0077 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	564.14	165.61
26 28 16 00-0078 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	754.05	190.77
26 28 16 00-0079 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,185.88	305.14
26 28 16 00-0080 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,352.56	508.26
26 28 16 00-0081 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,765.68	693.08
26 28 16 00-0082 EA 800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,401.75	823.47
26 28 16 00-0083 EA 1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,318.45	960.72
26 28 16 00-0084 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0085 EA 30 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	404.95	131.30
26 28 16 00-0086 EA 60 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	621.17	186.20
26 28 16 00-0087 EA 100 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	823.05	211.82
26 28 16 00-0088 EA 200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,280.04	331.67
26 28 16 00-0089 EA 400 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,520.59	544.40
26 28 16 00-0090 EA 600 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,074.26	762.63
26 28 16 00-0091 EA 800 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,740.20	823.47
26 28 16 00-0092 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0093 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	430.19	131.48
26 28 16 00-0094 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	664.22	186.02
26 28 16 00-0095 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	893.07	211.82
26 28 16 00-0096 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,387.89	331.49
26 28 16 00-0097 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,671.45	544.58
26 28 16 00-0098 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,520.73	762.45
26 28 16 00-0099 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,250.03	823.47
26 28 16 00-0100 EA 1,200 Amp, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,460.38	960.72
26 28 16 00-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0102 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	613.36	119.13
26 28 16 00-0103 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	746.00	165.80
26 28 16 00-0104 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,129.14	190.59
26 28 16 00-0105 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,698.88	304.96
26 28 16 00-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0107 EA 30 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	664.81	131.30
26 28 16 00-0108 EA 60 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	816.04	186.20
26 28 16 00-0109 EA 100 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,224.94	211.82
26 28 16 00-0110 EA 200 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,829.70	331.67
26 28 16 00-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0112 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	735.08	131.48
26 28 16 00-0113 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	893.55	186.02
26 28 16 00-0114 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,364.32	211.82
26 28 16 00-0115 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,032.74	331.49
26 28 16 00-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0002) Note: Includes fuses and neutral bar.		
26 28 16 00-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0116)		
26 28 16 00-0118 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	228.64	79.60
26 28 16 00-0119 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	308.76	95.79
26 28 16 00-0120 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	466.82	111.99
26 28 16 00-0121 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	857.08	176.68
26 28 16 00-0122 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,004.98	274.04
26 28 16 00-0123 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,725.08	405.60
26 28 16 00-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0116)		
26 28 16 00-0125 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	319.42	125.07
26 28 16 00-0126 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	448.42	165.80
26 28 16 00-0127 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	611.18	184.18
26 28 16 00-0128 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,081.14	288.30
26 28 16 00-0129 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,405.93	473.59
26 28 16 00-0130 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,243.56	662.98
26 28 16 00-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0116)		
26 28 16 00-0132 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	352.21	125.07
26 28 16 00-0133 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	501.28	165.80
26 28 16 00-0134 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	659.28	184.18
26 28 16 00-0135 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,202.32	288.30
26 28 16 00-0136 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,613.06	473.59



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0137	EA	600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,374.86	662.98
26 28 16 00-0138		General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0002)		
26 28 16 00-0139		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0138)		
26 28 16 00-0140	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	312.86	110.71
26 28 16 00-0141	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	411.83	127.27
26 28 16 00-0142	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	910.84	203.39
26 28 16 00-0143	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,931.07	338.54
26 28 16 00-0144	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,314.32	461.33
26 28 16 00-0145		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0138)		
26 28 16 00-0146	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	295.33	103.57
26 28 16 00-0147	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	405.17	144.11
26 28 16 00-0148	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	604.01	165.80
26 28 16 00-0149	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,035.01	265.25
26 28 16 00-0150	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,138.80	442.12
26 28 16 00-0151	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,598.35	602.60
26 28 16 00-0152		NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0001)		
26 28 16 00-0153		Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0152) Note: With fuses, neutral bar, and hub if required.		
26 28 16 00-0154		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0153)		
26 28 16 00-0155	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	469.93	107.51
26 28 16 00-0156	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	737.88	129.01
26 28 16 00-0157	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	919.67	150.05
26 28 16 00-0158	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,348.28	228.74
26 28 16 00-0159	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,947.14	365.98
26 28 16 00-0160	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,129.96	488.13
26 28 16 00-0161	EA	800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,649.32	548.98
26 28 16 00-0162	EA	1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,116.05	640.48
26 28 16 00-0163		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0153)		
26 28 16 00-0164	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	799.16	143.28
26 28 16 00-0165	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	952.79	175.68
26 28 16 00-0166	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,341.39	201.75
26 28 16 00-0167	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,894.15	302.58
26 28 16 00-0168	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,084.40	495.08
26 28 16 00-0169	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,458.28	680.83
26 28 16 00-0170	EA	800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,915.62	783.94
26 28 16 00-0171	EA	1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,028.98	882.49

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0172		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶		
		^{28 16 00-0153)}		
26 28 16 00-0173	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	606.89	169.27
26 28 16 00-0174	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	953.04	224.16
26 28 16 00-0175	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,143.07	246.13
26 28 16 00-0176	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,698.71	381.08
26 28 16 00-0177	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,630.14	635.45
26 28 16 00-0178	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,006.55	847.26
26 28 16 00-0179		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶		
		^{28 16 00-0153)}		
26 28 16 00-0180	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	915.41	200.66
26 28 16 00-0181	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,093.72	245.94
26 28 16 00-0182	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,453.52	282.36
26 28 16 00-0183	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,114.54	423.63
26 28 16 00-0184	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,407.23	693.18
26 28 16 00-0185	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,892.21	953.12
26 28 16 00-0186	EA	800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,114.31	1,097.96
26 28 16 00-0187	EA	1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,286.23	1,235.20
26 28 16 00-0188		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶		
		^{28 16 00-0153)}		
26 28 16 00-0189	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	662.49	169.27
26 28 16 00-0190	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	954.65	224.16
26 28 16 00-0191	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,221.24	246.13
26 28 16 00-0192	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,750.85	381.08
26 28 16 00-0193	EA	400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,677.96	635.45
26 28 16 00-0194	EA	600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,532.62	847.26
26 28 16 00-0195	EA	800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,799.41	960.72
26 28 16 00-0196	EA	1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,438.90	1,097.96
26 28 16 00-0197		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶		
		^{28 16 00-0153)}		
26 28 16 00-0198	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	947.30	200.84
26 28 16 00-0199	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,129.58	246.13
26 28 16 00-0200	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,533.23	282.26
26 28 16 00-0201	EA	200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,166.36	423.63
26 28 16 00-0202	EA	400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,594.54	693.08
26 28 16 00-0203	EA	600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,107.42	952.94
26 28 16 00-0204	EA	800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,791.98	1,097.96
26 28 16 00-0205	EA	1,200 Amp, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,179.48	1,235.20



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0206 Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0152)		
26 28 16 00-0207 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0206)		
26 28 16 00-0208 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	444.33	94.15
26 28 16 00-0209 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	720.27	130.38
26 28 16 00-0210 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	942.10	149.50
26 28 16 00-0211 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,263.16	242.10
26 28 16 00-0212 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,782.03	403.87
26 28 16 00-0213 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,028.90	538.46
26 28 16 00-0214 EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,040.19	640.75
26 28 16 00-0215 EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,588.66	732.24
26 28 16 00-0216 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0206)		
26 28 16 00-0217 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	499.76	103.76
26 28 16 00-0218 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	815.69	145.20
26 28 16 00-0219 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,062.70	163.96
26 28 16 00-0220 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,398.67	254.18
26 28 16 00-0221 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,149.55	423.63
26 28 16 00-0222 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,425.83	564.80
26 28 16 00-0223 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,571.92	671.22
26 28 16 00-0224 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,284.41	762.45
26 28 16 00-0225 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0206)		
26 28 16 00-0226 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	538.46	141.18
26 28 16 00-0227 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	850.60	195.53
26 28 16 00-0228 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,091.60	224.25
26 28 16 00-0229 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,505.21	363.15
26 28 16 00-0230 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,225.91	605.71
26 28 16 00-0231 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,645.78	807.46
26 28 16 00-0232 EA 800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,768.50	960.72
26 28 16 00-0233 EA 1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,570.12	1,097.96
26 28 16 00-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0206)		
26 28 16 00-0235 EA 30 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	585.57	155.55
26 28 16 00-0236 EA 60 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	928.11	217.85
26 28 16 00-0237 EA 100 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,180.95	245.94
26 28 16 00-0238 EA 200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,597.18	381.26
26 28 16 00-0239 EA 400 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,429.03	635.35
26 28 16 00-0240 EA 600 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,012.64	847.17
26 28 16 00-0241 EA 800 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,348.90	1,006.46
26 28 16 00-0242 EA 1,200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,329.70	1,143.71

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0243			600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0206)		
26 28 16 00-0244	EA		30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	331.96	155.55
26 28 16 00-0245	EA		60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	960.91	217.85
26 28 16 00-0246	EA		100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,226.68	245.94
26 28 16 00-0247	EA		200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,652.84	381.26
26 28 16 00-0248	EA		400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,573.15	635.35
26 28 16 00-0249	EA		600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,990.62	847.17
26 28 16 00-0250	EA		800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,336.56	1,006.46
26 28 16 00-0251	EA		1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,312.92	1,143.71
26 28 16 00-0252			General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0152) Note: With fuses, neutral bar, and hub if required.		
26 28 16 00-0253			240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0252)		
26 28 16 00-0254	EA		30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	293.67	93.51
26 28 16 00-0255	EA		60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	409.93	112.18
26 28 16 00-0256	EA		100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	535.35	130.47
26 28 16 00-0257	EA		200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,082.43	198.91
26 28 16 00-0258	EA		400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,610.08	318.23
26 28 16 00-0259	EA		600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,594.96	424.54
26 28 16 00-0260			240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0252)		
26 28 16 00-0261	EA		30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	401.79	147.40
26 28 16 00-0262	EA		60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	575.83	194.98
26 28 16 00-0263	EA		100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	701.86	213.92
26 28 16 00-0264	EA		200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,348.32	331.49
26 28 16 00-0265	EA		400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,080.01	552.46
26 28 16 00-0266	EA		600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,226.08	736.91
26 28 16 00-0267			240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0252)		
26 28 16 00-0268	EA		30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	447.74	147.31
26 28 16 00-0269	EA		60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	621.96	194.98
26 28 16 00-0270	EA		100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	850.25	213.92
26 28 16 00-0271	EA		200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,444.14	331.49
26 28 16 00-0272	EA		400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,141.56	552.55
26 28 16 00-0273	EA		600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,706.31	736.91
26 28 16 00-0274	EA		800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,105.69	834.81
26 28 16 00-0275			General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0152)		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0276		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0275)		
26 28 16 00-0277	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	264.44	81.89
26 28 16 00-0278	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	428.15	113.36
26 28 16 00-0279	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	452.48	130.01
26 28 16 00-0280	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,105.96	210.45
26 28 16 00-0281	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,676.38	351.16
26 28 16 00-0282	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,684.41	468.19
26 28 16 00-0283		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0275)		
26 28 16 00-0284	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	412.70	122.79
26 28 16 00-0285	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	592.60	170.00
26 28 16 00-0286	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	855.58	194.98
26 28 16 00-0287	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,466.48	315.75
26 28 16 00-0288		NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0001)		
26 28 16 00-0289		Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0288) Note: With fuses and neutral bar (stainless steel).		
26 28 16 00-0290		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0291	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,204.59	91.50
26 28 16 00-0292	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,447.09	110.25
26 28 16 00-0293	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,930.87	128.83
26 28 16 00-0294	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,059.33	203.30
26 28 16 00-0295	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,230.77	315.48
26 28 16 00-0296	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,833.98	466.45
26 28 16 00-0297		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0298	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,525.44	101.66
26 28 16 00-0299	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,698.45	122.42
26 28 16 00-0300	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,169.70	143.10
26 28 16 00-0301	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,484.99	226.00
26 28 16 00-0302	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,552.87	350.80
26 28 16 00-0303	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,266.98	518.24
26 28 16 00-0304		240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0305	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,362.76	143.83
26 28 16 00-0306	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,710.35	190.59
26 28 16 00-0307	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,229.04	211.82
26 28 16 00-0308	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,596.94	331.49
26 28 16 00-0309	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,940.46	544.58
26 28 16 00-0310	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,755.48	762.45

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0311		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0312	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,643.93	158.84
26 28 16 00-0313	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,881.67	211.82
26 28 16 00-0314	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,368.96	238.25
26 28 16 00-0315	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,771.67	363.06
26 28 16 00-0316	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,238.57	586.49
26 28 16 00-0317	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,148.89	847.17
26 28 16 00-0318		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0319	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,622.71	143.83
26 28 16 00-0320	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,035.32	190.59
26 28 16 00-0321	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,879.30	211.82
26 28 16 00-0322	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,486.13	331.49
26 28 16 00-0323	EA	400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,690.51	544.58
26 28 16 00-0324	EA	600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,160.46	762.45
26 28 16 00-0325		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0326	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,951.09	158.84
26 28 16 00-0327	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,229.98	211.82
26 28 16 00-0328	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,032.71	238.25
26 28 16 00-0329	EA	200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,668.29	363.06
26 28 16 00-0330	EA	400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,012.23	586.49
26 28 16 00-0331	EA	600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,586.66	847.17
26 28 16 00-0332		Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0288)		
26 28 16 00-0333		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0334	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,156.62	91.50
26 28 16 00-0335	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,411.46	127.27
26 28 16 00-0336	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,635.63	146.40
26 28 16 00-0337	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,663.88	233.86
26 28 16 00-0338	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,661.98	389.41
26 28 16 00-0339	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,535.33	530.50
26 28 16 00-0340		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0341	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,314.65	100.92
26 28 16 00-0342	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,607.51	142.74
26 28 16 00-0343	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,002.86	162.68
26 28 16 00-0344	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,161.11	254.18



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Circuit Protective Devices	26 28

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0345	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,560.26	418.32
26 28 16 00-0346	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,856.23	585.58
26 28 16 00-0347		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0348	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,211.90	119.13
26 28 16 00-0349	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,469.96	165.80
26 28 16 00-0350	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,538.08	190.59
26 28 16 00-0351	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,952.81	304.96
26 28 16 00-0352	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,212.73	508.35
26 28 16 00-0353	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,139.74	693.18
26 28 16 00-0354		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0355	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,375.64	131.48
26 28 16 00-0356	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,694.05	186.02
26 28 16 00-0357	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,101.13	211.82
26 28 16 00-0358	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,315.69	331.49
26 28 16 00-0359	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,590.00	544.58
26 28 16 00-0360	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,528.86	762.45
26 28 16 00-0361		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0362	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,656.30	119.13
26 28 16 00-0363	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,991.22	165.80
26 28 16 00-0364	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,439.43	190.59
26 28 16 00-0365	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,775.55	304.96
26 28 16 00-0366		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0367	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,883.53	131.48
26 28 16 00-0368	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,268.75	186.02
26 28 16 00-0369	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,061.54	211.82
26 28 16 00-0370	EA	200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,709.37	331.49
26 28 16 00-0371		Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0288)		
26 28 16 00-0372		600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0371)		
26 28 16 00-0373	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,191.78	158.74
26 28 16 00-0374	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,505.34	211.82
26 28 16 00-0375	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,470.93	238.35
26 28 16 00-0376	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,831.51	363.25

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 28 16 00-0377	600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0371)				
26 28 16 00-0378	EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,048.52		131.30	
26 28 16 00-0379	EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,356.42		186.20	
26 28 16 00-0380	EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,223.48		211.82	
26 28 16 00-0381	EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,750.83		331.67	
26 28 16 00-0382	Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0288)				
26 28 16 00-0383	600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0382)				
26 28 16 00-0384	EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,501.06		158.74	
26 28 16 00-0385	EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,851.42		211.82	
26 28 16 00-0386	EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,125.42		238.35	
26 28 16 00-0387	600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0382)				
26 28 16 00-0388	EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,341.16		131.30	
26 28 16 00-0389	EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,684.10		186.20	
26 28 16 00-0390	EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,851.68		211.82	
26 28 16 00-0391	NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches (26 28 16 00-0001) Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.				
26 28 16 00-0392	Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches (26 28 16 00-0391) Note: With fuses and neutral bar.				
26 28 16 00-0393	EA 30 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	1,991.08		182.99	
26 28 16 00-0394	EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,060.79		217.85	
26 28 16 00-0395	EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,497.16		245.94	
26 28 16 00-0396	EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	5,267.14		381.26	
26 28 16 00-0397	Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0391)				
26 28 16 00-0398	EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	1,563.66		217.85	
26 28 16 00-0399	EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	1,827.90		245.94	
26 28 16 00-0400	EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,344.36		381.26	
26 28 16 00-0401	NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0001)				
26 28 16 00-0402	Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0401) Note: With fuses and neutral bar.				
26 28 16 00-0403	240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)				
26 28 16 00-0404	EA 30 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	452.80		91.50	
26 28 16 00-0405	EA 60 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	589.22		110.25	
26 28 16 00-0406	EA 100 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	799.14		129.01	
26 28 16 00-0407	EA 200 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,344.69		203.12	
26 28 16 00-0408	EA 400 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,842.89		315.66	
26 28 16 00-0409	EA 600 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,109.55		466.64	
26 28 16 00-0410	600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)				
26 28 16 00-0411	EA 30 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	701.50		101.57	
26 28 16 00-0412	EA 60 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	727.28		122.61	



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Circuit Protective Devices			26 28

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0413 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,040.09	143.19
26 28 16 00-0414 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,627.74	226.00
26 28 16 00-0415 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,519.32	350.43
26 28 16 00-0416 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,922.04	518.33
26 28 16 00-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)		
26 28 16 00-0418 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	633.07	143.65
26 28 16 00-0419 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	874.99	190.77
26 28 16 00-0420 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,183.56	211.82
26 28 16 00-0421 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,762.93	331.67
26 28 16 00-0422 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,436.63	544.40
26 28 16 00-0423 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,492.01	762.63
26 28 16 00-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)		
26 28 16 00-0425 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	835.80	158.74
26 28 16 00-0426 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	953.66	211.82
26 28 16 00-0427 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,389.19	238.35
26 28 16 00-0428 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,025.39	363.25
26 28 16 00-0429 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,205.91	586.49
26 28 16 00-0430 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,855.77	847.26
26 28 16 00-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)		
26 28 16 00-0432 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	674.31	143.65
26 28 16 00-0433 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	903.32	190.77
26 28 16 00-0434 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,272.49	211.82
26 28 16 00-0435 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,874.57	331.67
26 28 16 00-0436 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,735.55	544.40
26 28 16 00-0437 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,693.95	762.63
26 28 16 00-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)		
26 28 16 00-0439 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	883.61	158.74
26 28 16 00-0440 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,081.19	211.82
26 28 16 00-0441 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,476.89	238.35
26 28 16 00-0442 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,192.77	363.25
26 28 16 00-0443 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,476.91	586.49
26 28 16 00-0444 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,078.95	847.26
26 28 16 00-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0401)		
26 28 16 00-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0447 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	472.87	132.21

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0448	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	628.38	184.36
26 28 16 00-0449	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	828.36	211.82
26 28 16 00-0450	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,186.85	339.00
26 28 16 00-0451	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,583.26	565.00
26 28 16 00-0452	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,072.07	770.40
26 28 16 00-0453		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0454	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	526.86	145.94
26 28 16 00-0455	EA	60 Amp, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase.....	698.65	206.78
26 28 16 00-0456	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	923.14	235.15
26 28 16 00-0457	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,289.56	368.28
26 28 16 00-0458	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,736.57	605.25
26 28 16 00-0459	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,499.01	847.26
26 28 16 00-0460		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0461	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	609.27	118.94
26 28 16 00-0462	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	803.36	165.61
26 28 16 00-0463	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,063.79	190.77
26 28 16 00-0464	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,524.87	305.14
26 28 16 00-0465	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,185.89	508.26
26 28 16 00-0466	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,006.24	693.08
26 28 16 00-0467		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0468	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	599.29	131.30
26 28 16 00-0469	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	870.11	186.20
26 28 16 00-0470	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,140.97	211.82
26 28 16 00-0471	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,511.90	331.67
26 28 16 00-0472	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,205.49	544.40
26 28 16 00-0473	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,948.72	762.63
26 28 16 00-0474		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0475	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	727.25	118.94
26 28 16 00-0476	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	870.46	165.61
26 28 16 00-0477	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,338.66	190.77
26 28 16 00-0478	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,123.31	305.14
26 28 16 00-0479	EA	400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,808.89	388.86
26 28 16 00-0480		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0481	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	757.11	131.30
26 28 16 00-0482	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	949.81	186.20
26 28 16 00-0483	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,431.90	211.82



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Circuit Protective Devices		26 28

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0484 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,185.42	331.67
26 28 16 00-0485 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,071.39	512.38
26 28 16 00-0486 Double Throw Safety Switches (26 28 16 00-0001)		
26 28 16 00-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0486)		
26 28 16 00-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0489 EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	569.02	117.57
26 28 16 00-0490 EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	836.10	153.71
26 28 16 00-0491 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,169.50	200.84
26 28 16 00-0492 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,558.05	261.22
26 28 16 00-0493 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,692.47	326.64
26 28 16 00-0494 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,702.08	523.82
26 28 16 00-0495 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0496 EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	721.62	164.69
26 28 16 00-0497 EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,004.00	215.02
26 28 16 00-0498 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,501.86	281.35
26 28 16 00-0499 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,194.95	365.98
26 28 16 00-0500 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,089.77	457.49
26 28 16 00-0501 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,123.24	731.97
26 28 16 00-0502 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0503 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	955.95	205.87
26 28 16 00-0504 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,384.01	269.00
26 28 16 00-0505 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,428.39	351.34
26 28 16 00-0506 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,321.07	456.57
26 28 16 00-0507 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,616.30	571.85
26 28 16 00-0508 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,413.46	916.34
26 28 16 00-0509 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0510 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	960.42	153.71
26 28 16 00-0511 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,437.49	200.84
26 28 16 00-0512 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,111.32	261.22
26 28 16 00-0513 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,915.56	326.64
26 28 16 00-0514 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,275.01	523.82
26 28 16 00-0515 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0516 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,082.90	215.02
26 28 16 00-0517 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,598.07	281.35
26 28 16 00-0518 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,319.95	365.98
26 28 16 00-0519 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,177.02	457.49
26 28 16 00-0520 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,692.55	731.97
26 28 16 00-0521 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0522 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,461.84	269.00
26 28 16 00-0523 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,540.85	351.34
26 28 16 00-0524 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,553.67	456.57
26 28 16 00-0525 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,111.83	571.85
26 28 16 00-0526 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,968.12	916.34
26 28 16 00-0527 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0486)		
26 28 16 00-0528 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0527)		
26 28 16 00-0529 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,451.29	200.84
26 28 16 00-0530 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,287.66	261.22
26 28 16 00-0531 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,659.97	326.64
26 28 16 00-0532 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	18,351.82	523.82
26 28 16 00-0533 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0527)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0534 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,905.94	280.90
26 28 16 00-0535 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,059.06	365.53
26 28 16 00-0536 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,015.72	457.49
26 28 16 00-0537 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,019.77	733.35
26 28 16 00-0538 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0527)		
26 28 16 00-0539 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,823.73	205.96
26 28 16 00-0540 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,264.29	268.81
26 28 16 00-0541 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,169.69	351.25
26 28 16 00-0542 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,573.52	456.76
26 28 16 00-0543 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,723.76	571.85
26 28 16 00-0544 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,060.92	916.43
26 28 16 00-0545 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0527)		
26 28 16 00-0546 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,227.46	153.71
26 28 16 00-0547 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,861.48	200.84
26 28 16 00-0548 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,367.32	261.22
26 28 16 00-0549 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,443.26	326.64
26 28 16 00-0550 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,628.61	523.82
26 28 16 00-0551 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0527)		
26 28 16 00-0552 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,398.96	215.02
26 28 16 00-0553 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,099.07	280.90
26 28 16 00-0554 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,725.66	365.53
26 28 16 00-0555 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,009.48	457.49
26 28 16 00-0556 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,444.63	733.35
26 28 16 00-0557 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0527)		
26 28 16 00-0558 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,282.30	268.81
26 28 16 00-0559 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,177.95	351.25
26 28 16 00-0560 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,688.28	456.76
26 28 16 00-0561 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,710.21	571.85
26 28 16 00-0562 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,135.60	916.43
26 28 16 00-0563 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0496)		
26 28 16 00-0564 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0563)		
26 28 16 00-0565 EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,449.80	117.67
26 28 16 00-0566 EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,646.38	153.62
26 28 16 00-0567 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,868.46	200.75
26 28 16 00-0568 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,565.60	261.04
26 28 16 00-0569 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,760.70	326.73
26 28 16 00-0570 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,990.93	523.63
26 28 16 00-0571 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0563)		
26 28 16 00-0572 EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,672.10	164.69
26 28 16 00-0573 EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,981.91	215.02
26 28 16 00-0574 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,357.27	280.90
26 28 16 00-0575 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,281.16	365.53
26 28 16 00-0576 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,937.73	457.49
26 28 16 00-0577 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,872.51	733.35
26 28 16 00-0578 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0563)		
26 28 16 00-0579 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,489.90	205.96
26 28 16 00-0580 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,918.89	268.81
26 28 16 00-0581 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,998.37	351.25
26 28 16 00-0582 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,427.65	456.76
26 28 16 00-0583 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,991.25	571.85
26 28 16 00-0584 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,455.87	916.43
26 28 16 00-0585 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0563)		
26 28 16 00-0586 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,161.99	153.62



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Circuit Protective Devices			26 28

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0587 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,281.48	200.75
26 28 16 00-0588 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,301.11	261.04
26 28 16 00-0589 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,196.55	326.73
26 28 16 00-0590 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,337.94	523.63
26 28 16 00-0591 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0563)		
26 28 16 00-0592 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,382.49	215.02
26 28 16 00-0593 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,541.11	280.90
26 28 16 00-0594 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,708.44	365.53
26 28 16 00-0595 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,749.54	457.49
26 28 16 00-0596 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,138.34	733.35
26 28 16 00-0597 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0563)		
26 28 16 00-0598 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,948.27	268.81
26 28 16 00-0599 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,215.05	351.25
26 28 16 00-0600 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,555.36	456.76
26 28 16 00-0601 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,266.15	571.85
26 28 16 00-0602 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	12,820.24	916.43
26 28 16 00-0603 Removal And Reinstallation Of Disconnect Switches (26 28 16 00-0001) Note: Includes storage and cleaning.		
26 28 16 00-0604 EA Removal And Reinstallation Of Up To 100 Amp Safety Disconnect Switch	457.49	
26 28 16 00-0605 EA Removal And Reinstallation Of >100 To 200 Amp Safety Disconnect Switch	594.76	
26 28 16 00-0606 EA Removal And Reinstallation Of >200 To 300 Amp Safety Disconnect Switch	663.40	
26 28 16 00-0607 EA Removal And Reinstallation Of >300 To 400 Amp Safety Disconnect Switch	777.77	
26 28 16 00-0608 Bolted Contact Switches (26 28 16) Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 00-0609 Electrical Trip, Bolted Contact Switches (26 28 16 00-0608)		
26 28 16 00-0610 Top Feed, Electrical Trip, Bolted Contact Switches (26 28 16 00-0609)		
26 28 16 00-0611 EA 800 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480)	6,029.13	914.96
26 28 16 00-0612 EA 1,200 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480)	6,575.28	1,097.96
26 28 16 00-0613 EA 1,600 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480)	7,194.18	1,280.96
26 28 16 00-0614 EA 2,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480)	7,646.80	1,463.95
26 28 16 00-0615 EA 2,500 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480)	8,632.96	1,646.94
26 28 16 00-0616 EA 3,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480)	10,720.89	1,829.93
26 28 16 00-0617 EA 4,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480)	14,328.55	2,195.92
26 28 16 00-0618 Bottom Feed, Electrical Trip, Bolted Contact Switches (26 28 16 00-0609)		
26 28 16 00-0619 EA 800 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480)	6,365.20	914.96
26 28 16 00-0620 EA 1,200 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480)	6,977.19	1,097.96
26 28 16 00-0621 EA 1,600 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480)	7,592.62	1,280.96
26 28 16 00-0622 EA 2,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480)	8,218.47	1,463.95
26 28 16 00-0623 EA 2,500 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480)	9,249.67	1,646.94
26 28 16 00-0624 EA 3,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480)	11,878.09	1,829.93
26 28 16 00-0625 EA 4,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480)	15,534.26	2,195.92
26 28 16 00-0626 Manually Operated, Bolted Contact Switches (26 28 16 00-0608)		
26 28 16 00-0627 Top Feed, Manually Operated, Bolted Contact Switches (26 28 16 00-0626)		
26 28 16 00-0628 EA 800 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480)	4,518.53	914.96
26 28 16 00-0629 EA 1,200 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480)	5,082.70	1,097.96
26 28 16 00-0630 EA 1,600 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480)	5,675.27	1,280.96
26 28 16 00-0631 EA 2,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480)	6,263.70	1,463.95
26 28 16 00-0632 EA 2,500 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480)	6,886.76	1,646.94
26 28 16 00-0633 EA 3,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480)	8,974.69	1,829.93
26 28 16 00-0634 EA 4,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480)	12,540.77	2,195.92
26 28 16 00-0635 Bottom Feed, Manually Operated, Bolted Contact Switches (26 28 16 00-0626)		
26 28 16 00-0636 EA 800 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480)	4,740.96	914.96
26 28 16 00-0637 EA 1,200 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480)	5,418.77	1,097.96
26 28 16 00-0638 EA 1,600 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480)	6,000.95	1,280.96
26 28 16 00-0639 EA 2,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480)	6,694.01	1,463.95
26 28 16 00-0640 EA 2,500 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480)	7,427.25	1,646.94
26 28 16 00-0641 EA 3,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480)	10,045.27	1,829.93
26 28 16 00-0642 EA 4,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480)	13,663.33	2,195.92

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
26 29 Low-Voltage Controllers (26 20)**26 29 13 Enclosed Controllers** (26 29)**26 29 13 13 Across-The-Line Motor Controllers** (26 29 13)**26 29 13 13-0001 Manual Motor Starters** (26 29 13 13)**26 29 13 13-0002 Fractional HP Manual Motor Starters** (26 29 13 13-0001)

26 29 13 13-0003	EA	NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	187.99	45.82
		For Flush Cover Plate In Lieu Of NEMA 1, Deduct.....	-2.67	
		For Oversized Enclosure, Add.....	26.89	
		For Pilot Light, Add.....	39.44	
26 29 13 13-0004	EA	NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	246.41	59.56
		For Flush Cover Plate In Lieu Of NEMA 1, Deduct.....	-2.67	
		For Oversized Enclosure, Add.....	26.89	
		For Pilot Light, Add.....	39.44	
26 29 13 13-0005	EA	NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	214.87	45.82
		For Flush Cover Plate In Lieu Of NEMA 1, Deduct.....	-2.67	
		For Oversized Enclosure, Add.....	26.89	
		For Pilot Light, Add.....	39.44	
26 29 13 13-0006	EA	NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	273.29	59.56
		For Flush Cover Plate In Lieu Of NEMA 1, Deduct.....	-2.67	
		For Oversized Enclosure, Add.....	26.89	
		For Pilot Light, Add.....	39.44	
26 29 13 13-0007	EA	NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	199.64	45.82
		For Oversized Enclosure, Add.....	26.89	
26 29 13 13-0008	EA	NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	261.64	59.56
		For Oversized Enclosure, Add.....	26.89	
26 29 13 13-0009	EA	NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	416.04	54.98
		For Pilot Light, Add.....	103.07	
26 29 13 13-0010	EA	NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	477.15	68.72
		For Pilot Light, Add.....	103.07	
26 29 13 13-0011	EA	NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	442.93	54.98
26 29 13 13-0012	EA	NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	501.35	68.72

26 29 13 13-0013 Non Reversing Manual Motor Starters (26 29 13 13-0001)

26 29 13 13-0014	EA	NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	148.71	45.82
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add.....	12.97	
		For Pilot Light, Add.....	62.27	
26 29 13 13-0015	EA	NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	247.98	59.56
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add.....	12.97	
		For Pilot Light, Add.....	62.27	
26 29 13 13-0016	EA	NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	168.25	50.40
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add.....	12.97	
		For Pilot Light, Add.....	62.27	
26 29 13 13-0017	EA	NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	268.39	64.15
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add.....	12.97	
		For Pilot Light, Add.....	62.27	
26 29 13 13-0018	EA	NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	173.79	45.82
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add.....	12.97	
		For Pilot Light, Add.....	62.27	
26 29 13 13-0019	EA	NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	273.92	59.56
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add.....	12.97	
		For Pilot Light, Add.....	62.27	
26 29 13 13-0020	EA	NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	381.51	54.98
		For Pilot Light, Add.....	98.59	
26 29 13 13-0021	EA	NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	471.27	68.72
		For Pilot Light, Add.....	98.59	



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Controllers			26 29

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0022	EA	NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	401.92	59.56
		<i>For Pilot Light, Add</i>	98.59	
26 29 13 13-0023	EA	NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	489.09	73.31
		<i>For Pilot Light, Add</i>	98.59	
26 29 13 13-0024	EA	NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	405.73	54.98
26 29 13 13-0025	EA	NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	502.40	68.72
26 29 13 13-0026	EA	Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	109.12	32.07
		<i>For Pilot Light, Add</i>	62.27	
26 29 13 13-0027	EA	Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	208.38	45.82
		<i>For Pilot Light, Add</i>	62.27	
26 29 13 13-0028	EA	Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	128.66	36.65
		<i>For Pilot Light, Add</i>	62.27	
26 29 13 13-0029	EA	Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	227.92	50.40
		<i>For Pilot Light, Add</i>	62.27	
26 29 13 13-0030 Reversing Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0031	EA	NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....	413.14	82.47
		<i>For Pilot Light, Add</i>	100.32	
26 29 13 13-0032	EA	NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....	601.31	109.96
		<i>For Pilot Light, Add</i>	100.32	
26 29 13 13-0033 Two Speed Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0034	EA	NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....	413.14	82.47
26 29 13 13-0035	EA	NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	601.31	109.96
26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0037	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1).....	385.13	54.98
26 29 13 13-0038	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1).....	385.13	54.98
26 29 13 13-0039	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11).....	812.16	64.15
26 29 13 13-0040	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	812.16	64.15
26 29 13 13-0041	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1).....	1,066.70	64.15
26 29 13 13-0042	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	492.19	64.15
26 29 13 13-0043	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1).....	330.75	41.24
26 29 13 13-0044	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	458.82	59.56
26 29 13 13-0045	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	458.82	59.56
26 29 13 13-0046	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	974.58	68.72
26 29 13 13-0047	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	974.58	68.72
26 29 13 13-0048	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,248.84	68.72
26 29 13 13-0049	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	565.88	68.72
26 29 13 13-0050	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1).....	404.44	45.82
26 29 13 13-0051	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	606.91	64.15
26 29 13 13-0052	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	606.91	64.15
26 29 13 13-0053	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12).....	1,161.21	73.31
26 29 13 13-0054	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,161.21	73.31
26 29 13 13-0055	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2).....	1,423.82	73.31
26 29 13 13-0056	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	716.66	73.31
26 29 13 13-0057	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2).....	555.21	50.40

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0058	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2).....	476.71	68.72
26 29 13 13-0059	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	476.71	68.72
26 29 13 13-0060	EA	NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	903.74	77.88
26 29 13 13-0061	EA	NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	903.74	77.88
26 29 13 13-0062	EA	NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,165.45	77.88
26 29 13 13-0063	EA	Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	584.67	77.88
26 29 13 13-0064	EA	Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2).....	425.02	54.98
26 29 13 13-0065	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	550.41	73.31
26 29 13 13-0066	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	550.41	73.31
26 29 13 13-0067	EA	NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	1,066.16	82.47
26 29 13 13-0068	EA	NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,066.16	82.47
26 29 13 13-0069	EA	NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,346.69	82.47
26 29 13 13-0070	EA	Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	657.46	82.47
26 29 13 13-0071	EA	Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	496.02	59.56
26 29 13 13-0072 Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0073	EA	NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	1,132.19	96.22
26 29 13 13-0074	EA	NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	1,132.19	96.22
26 29 13 13-0075	EA	Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	1,001.03	68.72
26 29 13 13-0076	EA	NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,341.43	105.38
26 29 13 13-0077	EA	Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	1,210.26	77.88
26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0079	EA	NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,132.19	96.22
26 29 13 13-0080	EA	Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,001.03	68.72
26 29 13 13-0081	EA	NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,341.43	105.38
26 29 13 13-0082	EA	Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,210.26	77.88
26 29 13 13-0083 Magnetic Contactors/Starters (26 29 13 13)				
26 29 13 13-0084 Non Reversing, Magnetic Contactors (26 29 13 13-0083)				
26 29 13 13-0085 Open Enclosure, Non Reversing, Magnetic Contactors (26 29 13 13-0084)				
26 29 13 13-0086	EA	Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11).....	440.50	91.63
26 29 13 13-0087	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12).....	496.46	100.79
26 29 13 13-0088	EA	Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5).....	478.14	91.63
26 29 13 13-0089	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1).....	535.00	100.79
26 29 13 13-0090	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2).....	590.98	109.96
26 29 13 13-0091	EA	Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3).....	747.23	137.45
26 29 13 13-0092	EA	Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4).....	942.93	164.94
26 29 13 13-0093	EA	Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5).....	559.20	100.79
26 29 13 13-0094	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1).....	615.17	109.96
26 29 13 13-0095	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2).....	672.94	119.12
26 29 13 13-0096	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3).....	857.58	160.35
26 29 13 13-0097	EA	Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,052.38	187.85



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Low-Voltage Electrical Distribution		26 20	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0098	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1).....	961.13	109.96
26 29 13 13-0099	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,065.41	137.45
26 29 13 13-0100	EA	Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,387.38	183.27
26 29 13 13-0101	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,449.01	137.45
26 29 13 13-0102	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2).....	1,643.71	183.27
26 29 13 13-0103	EA	Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,092.07	229.09
26 29 13 13-0104	EA	Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,001.10	274.90
26 29 13 13-0105	EA	Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,292.17	229.09
26 29 13 13-0106	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2).....	3,614.15	274.90
26 29 13 13-0107	EA	Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3).....	4,904.99	320.72
26 29 13 13-0108	EA	Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1).....	6,691.04	274.90
26 29 13 13-0109	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2).....	7,411.16	366.53
26 29 13 13-0110	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2).....	19,328.79	549.81
26 29 13 13-0111	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2).....	27,666.28	824.70
26 29 13 13-0112 NEMA 1, Non Reversing, Magnetic Contactors (26 29 13 13-0084)				
26 29 13 13-0113	EA	Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG11).....	468.28	91.63
26 29 13 13-0114	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG12).....	524.25	100.79
26 29 13 13-0115	EA	Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5).....	505.93	91.63
26 29 13 13-0116	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1).....	563.68	100.79
26 29 13 13-0117	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2).....	619.66	109.96
26 29 13 13-0118	EA	Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3).....	777.71	137.45
26 29 13 13-0119	EA	Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4).....	974.30	164.94
26 29 13 13-0120	EA	Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5).....	588.78	100.79
26 29 13 13-0121	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1).....	646.54	109.96
26 29 13 13-0122	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2).....	702.52	119.12
26 29 13 13-0123	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3).....	888.06	160.35
26 29 13 13-0124	EA	Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,081.96	187.85
26 29 13 13-0125	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,093.78	109.96
26 29 13 13-0126	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2).....	1,198.95	137.45
26 29 13 13-0127	EA	Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3).....	1,520.03	183.27
26 29 13 13-0128	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1).....	1,709.83	137.45
26 29 13 13-0129	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2).....	1,903.63	183.27
26 29 13 13-0130	EA	Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3).....	2,352.88	229.09
26 29 13 13-0131	EA	Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1).....	3,832.62	229.09
26 29 13 13-0132	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2).....	4,154.60	274.90
26 29 13 13-0133	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2).....	8,396.16	366.53
26 29 13 13-0134	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2).....	23,660.46	549.81
26 29 13 13-0135	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJG2).....	32,010.49	824.70
26 29 13 13-0136 NEMA 12, Non Reversing, Magnetic Contactors (26 29 13 13-0084)				
26 29 13 13-0137	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1).....	716.94	100.79
26 29 13 13-0138	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2).....	772.92	109.96

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0139	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2).....	855.78	119.12	
26 29 13 13-0140	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1).....	1,373.42	109.96	
26 29 13 13-0141	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2).....	1,479.48	137.45	
26 29 13 13-0142	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1).....	2,041.44	137.45	
26 29 13 13-0143	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2).....	2,234.35	183.27	
26 29 13 13-0144	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFA2).....	5,252.53	274.90	
26 29 13 13-0145	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2).....	11,205.96	366.53	
26 29 13 13-0146	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2).....	27,105.71	549.81	
26 29 13 13-0147 NEMA 4/4X, Non Reversing, Magnetic Contactors (26 29 13 13-0084)					
Note: Brushed stainless steel enclosure.					
26 29 13 13-0148	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12).....	1,066.89	109.96	
26 29 13 13-0149	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11).....	1,106.33	109.96	
26 29 13 13-0150	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12).....	1,162.30	119.12	
26 29 13 13-0151	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13).....	1,347.84	160.35	
26 29 13 13-0152	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12).....	2,118.52	137.45	
26 29 13 13-0153	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12).....	3,205.01	183.27	
26 29 13 13-0154	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFW12).....	6,376.45	274.90	
26 29 13 13-0155	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12).....	11,205.96	366.53	
26 29 13 13-0156	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2).....	30,041.89	549.81	
26 29 13 13-0157 NEMA 7/9, Non Reversing, Magnetic Contactors (26 29 13 13-0084)					
Note: Bolted cast iron enclosure.					
26 29 13 13-0158	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2).....	2,148.50	146.62	
26 29 13 13-0159 Non Reversing, Magnetic Starters (26 29 13 13-0083)					
26 29 13 13-0160 Open Enclosure, Non Reversing, Magnetic Starters (26 29 13 13-0159)					
26 29 13 13-0161	EA	Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11).....	529.23	91.63	
26 29 13 13-0162	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12).....	547.55	100.79	
26 29 13 13-0163	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1).....	591.47	100.79	
26 29 13 13-0164	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2).....	654.61	109.96	
26 29 13 13-0165	EA	Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4).....	1,054.96	164.94	
26 29 13 13-0166	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1).....	674.33	109.96	
26 29 13 13-0167	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3).....	793.94	119.12	
26 29 13 13-0168	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2).....	831.58	119.12	
26 29 13 13-0169	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO6).....	1,042.69	109.96	
26 29 13 13-0170	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO1).....	1,181.03	137.45	
26 29 13 13-0171	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1).....	1,834.62	183.27	
26 29 13 13-0172	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1).....	3,908.13	274.90	
26 29 13 13-0173	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1).....	8,935.71	366.53	
26 29 13 13-0174	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2).....	20,598.81	549.81	
26 29 13 13-0175	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2).....	29,666.75	824.70	
26 29 13 13-0176 NEMA 1, Non Reversing, Magnetic Starters (26 29 13 13-0159)					
26 29 13 13-0177	EA	Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG11).....	558.81	91.63	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0178	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12).....	577.13	100.79
26 29 13 13-0179	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1).....	621.04	100.79
26 29 13 13-0180	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2).....	684.19	109.96
26 29 13 13-0181	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1).....	703.01	109.96
26 29 13 13-0182	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3).....	767.05	119.12
26 29 13 13-0183	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2).....	862.05	119.12
26 29 13 13-0184	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6).....	1,176.24	109.96
26 29 13 13-0185	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1).....	1,314.57	137.45
26 29 13 13-0186	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1).....	2,095.43	183.27
26 29 13 13-0187	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1).....	4,448.58	274.90
26 29 13 13-0188	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1).....	9,923.40	366.53
26 29 13 13-0189			NEMA 12, Non Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0190	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1).....	774.31	100.79
26 29 13 13-0191	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2).....	837.45	109.96
26 29 13 13-0192	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1).....	856.27	109.96
26 29 13 13-0193	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3).....	920.31	119.12
26 29 13 13-0194	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2).....	1,015.31	119.12
26 29 13 13-0195	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6).....	1,456.77	109.96
26 29 13 13-0196	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1).....	1,594.21	137.45
26 29 13 13-0197	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1).....	2,426.15	183.27
26 29 13 13-0198	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1).....	5,545.61	274.90
26 29 13 13-0199	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1).....	12,730.51	366.53
26 29 13 13-0200	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2).....	30,431.76	549.81
26 29 13 13-0201			NEMA 3R, Non Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0202	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1).....	774.31	100.79
26 29 13 13-0203	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2).....	837.45	109.96
26 29 13 13-0204	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1).....	856.27	109.96
26 29 13 13-0205	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	920.31	119.12
26 29 13 13-0206	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	1,015.31	119.12
26 29 13 13-0207	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6).....	1,456.77	109.96
26 29 13 13-0208	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1).....	1,594.21	137.45
26 29 13 13-0209	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1).....	2,426.15	183.27
26 29 13 13-0210	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1).....	5,545.61	274.90
26 29 13 13-0211			NEMA 3R/4X/7/9, Non Reversing, Magnetic Starters (26 29 13 13-0159)		
			Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4).....	2,238.54	155.78
26 29 13 13-0213	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1).....	2,760.16	155.78
26 29 13 13-0214	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3).....	2,843.02	164.94
26 29 13 13-0215	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1).....	4,423.94	183.27
26 29 13 13-0216	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43).....	5,332.97	229.09
26 29 13 13-0217	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41).....	8,508.88	320.72

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0218		NEMA 4/4X, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11).....	1,067.38	100.79
26 29 13 13-0220	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12).....	1,131.42	109.96
26 29 13 13-0221	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11).....	1,162.79	109.96
26 29 13 13-0222	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13).....	1,226.83	119.12
26 29 13 13-0223	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12).....	1,321.84	119.12
26 29 13 13-0224	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16).....	2,094.02	109.96
26 29 13 13-0225	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11).....	3,395.92	183.27
26 29 13 13-0226	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW11).....	6,668.63	274.90
26 29 13 13-0227	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11).....	14,889.62	366.53
26 29 13 13-0228		NEMA 4X, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Glass polyester enclosure.		
26 29 13 13-0229	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21).....	2,234.14	137.45
26 29 13 13-0230	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21).....	4,154.16	183.27
26 29 13 13-0231	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW21).....	8,199.46	274.90
26 29 13 13-0232		NEMA 7/9, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1).....	2,167.33	146.62
26 29 13 13-0234	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2).....	2,238.54	155.78
26 29 13 13-0235	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1).....	2,270.80	155.78
26 29 13 13-0236	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3).....	2,338.42	164.94
26 29 13 13-0237	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2).....	2,447.76	164.94
26 29 13 13-0238	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1).....	3,613.71	183.27
26 29 13 13-0239		Reversing, Magnetic Starters (26 29 13 13-0083)		
26 29 13 13-0240		Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0241	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	1,011.73	119.12
26 29 13 13-0242	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	1,068.19	119.12
26 29 13 13-0243	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	1,183.31	128.29
26 29 13 13-0244	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	1,226.74	137.45
26 29 13 13-0245	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,258.11	137.45
26 29 13 13-0246	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,346.34	146.62
26 29 13 13-0247	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,400.72	160.35
26 29 13 13-0248	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7).....	1,432.99	160.35
26 29 13 13-0249	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	2,471.86	183.27
26 29 13 13-0250	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	4,047.05	274.90
26 29 13 13-0251	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	9,366.13	412.35
26 29 13 13-0252	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	17,509.37	549.81
26 29 13 13-0253	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	56,912.36	1,007.97
26 29 13 13-0254		NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0255	EA	Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,047.18	109.96



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0256	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15)	1,092.39	119.12
26 29 13 13-0257	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16)	1,124.66	119.12
26 29 13 13-0258	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1)	1,237.09	128.29
26 29 13 13-0259	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2)	1,282.31	137.45
26 29 13 13-0260	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4)	1,314.57	137.45
26 29 13 13-0261	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2)	1,427.01	146.62
26 29 13 13-0262	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6)	1,481.39	160.35
26 29 13 13-0263	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8)	1,513.65	160.35
26 29 13 13-0264	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2)	2,681.59	183.27
26 29 13 13-0265	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2)	4,410.04	274.90
26 29 13 13-0266	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3)	10,032.96	412.35
26 29 13 13-0267		NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0268	EA	Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2)	1,511.75	137.45
26 29 13 13-0269	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4)	1,544.02	137.45
26 29 13 13-0270	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4)	1,743.10	160.35
26 29 13 13-0271	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1)	3,065.19	183.27
26 29 13 13-0272		NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)		
		Note: Brushed stainless steel enclosure.		
26 29 13 13-0273	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14)	1,900.73	137.45
26 29 13 13-0274	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11)	2,244.41	146.62
26 29 13 13-0275		Magnetic Contactor/Starters Accessories (26 29 13 13-0083)		
26 29 13 13-0276	EA	NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2)	141.47	11.45
		For Factory Installed Accessory, Deduct	-22.91	
26 29 13 13-0277	EA	NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3)	242.65	11.45
		For Factory Installed Accessory, Deduct	-22.91	
26 29 13 13-0278	EA	NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2)	141.47	11.45
		For Factory Installed Accessory, Deduct	-22.91	
26 29 13 13-0279	EA	NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8)	242.65	11.45
		For Factory Installed Accessory, Deduct	-22.91	
26 29 13 13-0280	EA	NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R)	242.65	11.45
		For Factory Installed Accessory, Deduct	-22.91	
26 29 13 13-0281	EA	Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11)	119.50	9.16
		For Factory Installed Accessory, Deduct	-18.32	
26 29 13 13-0282	EA	External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6)	106.22	9.16
		For Factory Installed Accessory, Deduct	-18.32	
26 29 13 13-0283	EA	External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8)	141.47	11.45
		For Factory Installed Accessory, Deduct	-22.91	
26 29 13 13-0284	EA	External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13)	119.50	9.16
		For Factory Installed Accessory, Deduct	-18.32	
26 29 13 13-0285	EA	External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15)	159.87	11.45
		For Factory Installed Accessory, Deduct	-22.91	
26 29 13 13-0286	EA	30 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6)	179.81	9.16
		For Factory Installed Accessory, Deduct	-18.32	
26 29 13 13-0287	EA	45 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11)	311.65	9.16
		For Factory Installed Accessory, Deduct	-18.32	
26 29 13 13-0288	EA	60 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21)	331.07	9.16
		For Factory Installed Accessory, Deduct	-18.32	
26 29 13 13-0289	EA	30 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8)	395.96	11.45
		For Factory Installed Accessory, Deduct	-22.91	
26 29 13 13-0290	EA	45 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13)	693.38	11.45
		For Factory Installed Accessory, Deduct	-22.91	
26 29 13 13-0291	EA	60 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23)	693.38	11.45
		For Factory Installed Accessory, Deduct	-22.91	
26 29 13 13-0292	EA	Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1)	40.43	6.87
		For Factory Installed Accessory, Deduct	-13.75	
26 29 13 13-0293	EA	1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3)	83.73	9.16
		For Factory Installed Accessory, Deduct	-18.32	
26 29 13 13-0294	EA	2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4)	110.81	11.45
		For Factory Installed Accessory, Deduct	-22.91	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0295	EA	Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	86.28	11.45
		<i>For Factory Installed Accessory, Deduct</i>	-22.91	
26 29 13 13-0296	EA	Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	47.79	6.87
		<i>For Factory Installed Accessory, Deduct</i>	-13.75	
26 29 13 13-0297	EA	Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1).....	28.37	6.87
		<i>For Factory Installed Accessory, Deduct</i>	-13.75	
26 29 13 13-0298	EA	1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39).....	156.30	9.16
		<i>For Factory Installed Accessory, Deduct</i>	-18.32	
26 29 13 13-0299	EA	2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40).....	271.27	11.45
		<i>For Factory Installed Accessory, Deduct</i>	-22.91	
26 29 13 13-0300		Definite Purpose Starters (26 29 13 13)		
26 29 13 13-0301		Open Enclosure, Definite Purpose Starter (26 29 13 13-0300)		
26 29 13 13-0302	EA	Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13).....	486.11	109.96
		<i>For Factory Installed Accessory, Deduct</i>	-219.92	
26 29 13 13-0303	EA	Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22).....	485.22	109.96
		<i>For Factory Installed Accessory, Deduct</i>	-219.92	
26 29 13 13-0304	EA	Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23).....	525.06	119.12
		<i>For Factory Installed Accessory, Deduct</i>	-238.25	
26 29 13 13-0305	EA	Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32).....	518.38	109.96
		<i>For Factory Installed Accessory, Deduct</i>	-219.92	
26 29 13 13-0306	EA	Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33).....	563.60	119.12
		<i>For Factory Installed Accessory, Deduct</i>	-238.25	
26 29 13 13-0307	EA	Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42).....	547.06	109.96
		<i>For Factory Installed Accessory, Deduct</i>	-219.92	
26 29 13 13-0308	EA	Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43).....	632.51	137.45
		<i>For Factory Installed Accessory, Deduct</i>	-274.90	
26 29 13 13-0309	EA	Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52).....	706.90	137.45
		<i>For Factory Installed Accessory, Deduct</i>	-274.90	
26 29 13 13-0310	EA	Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53).....	892.54	160.35
		<i>For Factory Installed Accessory, Deduct</i>	-320.72	
26 29 13 13-0311		NEMA 1, Definite Purpose Starter (26 29 13 13-0300)		
26 29 13 13-0312	EA	NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12).....	499.15	100.79
		<i>For Factory Installed Accessory, Deduct</i>	-201.59	
26 29 13 13-0313	EA	NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13).....	538.99	109.96
		<i>For Factory Installed Accessory, Deduct</i>	-219.92	
26 29 13 13-0314	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22).....	537.20	109.96
		<i>For Factory Installed Accessory, Deduct</i>	-219.92	
26 29 13 13-0315	EA	NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23).....	579.73	119.12
		<i>For Factory Installed Accessory, Deduct</i>	-238.25	
26 29 13 13-0316	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32).....	571.26	109.96
		<i>For Factory Installed Accessory, Deduct</i>	-219.92	
26 29 13 13-0317	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33).....	617.37	119.12
		<i>For Factory Installed Accessory, Deduct</i>	-238.25	
26 29 13 13-0318	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42).....	601.73	109.96
		<i>For Factory Installed Accessory, Deduct</i>	-219.92	
26 29 13 13-0319	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43).....	686.29	137.45
		<i>For Factory Installed Accessory, Deduct</i>	-274.90	
26 29 13 13-0320	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52).....	757.99	137.45
		<i>For Factory Installed Accessory, Deduct</i>	-274.90	
26 29 13 13-0321	EA	NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53).....	944.52	160.35
		<i>For Factory Installed Accessory, Deduct</i>	-320.72	
26 29 13 13-0322		Definite Purpose Starter Accessory (26 29 13 13-0300)		
26 29 13 13-0323	EA	Start-Stop Push Button Kit, Definite Purpose Starter Accessory.....	159.87	11.45
		Note: Or Hand-Off-Auto Selector Switch Kit		
		<i>For Factory Installed Accessory, Deduct</i>	-22.91	
26 29 13 13-0324		Panel Mounted Miniature Contactor (26 29 13 13)		



Electrical		26	26
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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0325		Non Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)		
26 29 13 13-0326	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	142.72	45.82
26 29 13 13-0327	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	168.01	50.40
26 29 13 13-0328	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	168.01	50.40
26 29 13 13-0329	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	187.04	54.98
26 29 13 13-0330	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	158.85	45.82
26 29 13 13-0331	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	167.81	45.82
26 29 13 13-0332	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	183.25	50.40
26 29 13 13-0333	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	192.21	50.40
26 29 13 13-0334	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	188.62	50.40
26 29 13 13-0335	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	192.21	50.40
26 29 13 13-0336	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	204.96	54.98
26 29 13 13-0337	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	197.59	50.40
26 29 13 13-0338	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	213.93	54.98
26 29 13 13-0339	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	199.38	50.40
26 29 13 13-0340	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	199.38	50.40
26 29 13 13-0341	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	222.89	54.98
26 29 13 13-0342	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	222.89	54.98
26 29 13 13-0343		Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)		
26 29 13 13-0344	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	208.14	45.82
26 29 13 13-0345	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	226.07	45.82
26 29 13 13-0346	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	250.47	50.40
26 29 13 13-0347	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	250.47	50.40
26 29 13 13-0348	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	268.39	50.40
26 29 13 13-0349	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	281.15	54.98
26 29 13 13-0350	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	281.15	54.98
26 29 13 13-0351	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	241.31	45.82
26 29 13 13-0352	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	259.23	45.82

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0353	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	281.84	50.40
26 29 13 13-0354	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	299.76	50.40
26 29 13 13-0355	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	317.89	54.98
26 29 13 13-0356	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	335.82	54.98
26 29 13 13-0357	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	271.98	50.40
26 29 13 13-0358	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	314.10	50.40
26 29 13 13-0359	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	355.54	54.98
26 29 13 13-0360		Panel Mounted Miniature Contactor Accessories (26 29 13 13-0324)		
26 29 13 13-0361	EA	2 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02)	59.89	22.91
26 29 13 13-0362	EA	4 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40)	66.81	22.91
26 29 13 13-0363	EA	Electronic Time Delay Contact, 2 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U)	79.34	22.91
26 29 13 13-0364	EA	Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301)	104.27	22.91
26 29 13 13-0365		Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole (26 29 13 13)		
26 29 13 13-0366		NEMA 1 Enclosure (26 29 13 13-0365)		
26 29 13 13-0367	EA	Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	6,592.57	439.18
		<i>For NEMA 4, Add</i>	711.94	
26 29 13 13-0368	EA	Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	11,576.34	585.58
		<i>For NEMA 4, Add</i>	1,300.41	
26 29 13 13-0369	EA	Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	20,373.92	695.37
		<i>For NEMA 4, Add</i>	2,373.45	
26 29 13 13-0370	EA	Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	49,958.80	850.91
		<i>For NEMA 4, Add</i>	6,033.05	
26 29 13 13-0371	EA	Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	79,791.37	1,088.81
		<i>For NEMA 4, Add</i>	9,701.61	
26 29 13 13-0372		NEMA 12 Enclosure (26 29 13 13-0365)		
26 29 13 13-0373	EA	Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	6,545.13	448.52
26 29 13 13-0374	EA	Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	11,489.69	586.49
26 29 13 13-0375	EA	Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	20,215.76	693.18
26 29 13 13-0376	EA	Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	49,556.79	847.17
26 29 13 13-0377	EA	Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	79,144.90	1,089.27
26 29 13 13-0378		Factory Modifications Pilot Devices (26 29 13 13-0365)		
26 29 13 13-0379	EA	Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	167.74	
26 29 13 13-0380	EA	H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	184.99	
26 29 13 13-0381	EA	Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	314.89	
26 29 13 13-0382	EA	Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	171.09	
26 29 13 13-0383	EA	Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	246.01	
26 29 13 13-0384	EA	Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	123.01	
26 29 13 13-0385	EA	Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	401.48	
26 29 13 13-0386		Factory Modifications Meters (26 29 13 13-0365)		
26 29 13 13-0387	EA	Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,613.84	
26 29 13 13-0388	EA	Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,558.74	
26 29 13 13-0389	EA	Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	551.07	
26 29 13 13-0390	EA	Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	456.61	
26 29 13 13-0391		Factory Modifications Main Circuit Breakers (26 29 13 13-0365)		
26 29 13 13-0392	EA	Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker	2,132.92	
26 29 13 13-0393	EA	Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker	3,900.85	
26 29 13 13-0394	EA	Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker	8,297.48	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Controllers	26 29

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0395 Factory Modifications Addition (26 29 13 13-0365)		
Note: For reversing service auto transformer type.		
26 29 13 13-0396 EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	358.21	
26 29 13 13-0397 EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	358.21	
26 29 13 13-0398 EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	358.21	
26 29 13 13-0399 EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	358.21	
26 29 13 13-0400 Combination Starters Non-Reversing (26 29 13 13)		
26 29 13 13-0401 240-600 Volts, 3-Pole (26 29 13 13-0400)		
26 29 13 13-0402 NEMA 1 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0403 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,460.74	210.45
For Electronic Overloads, Add	197.06	
26 29 13 13-0404 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,757.13	329.39
For Electronic Overloads, Add	207.88	
26 29 13 13-0405 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,494.84	384.29
For Electronic Overloads, Add	329.15	
26 29 13 13-0406 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,836.56	475.78
For Electronic Overloads, Add	547.86	
26 29 13 13-0407 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	7,086.74	759.42
For Electronic Overloads, Add	1,056.74	
26 29 13 13-0408 EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	14,393.63	951.57
For Electronic Overloads, Add	2,372.62	
26 29 13 13-0409 NEMA 1 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0410 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	1,871.03	210.45
For Electronic Overloads, Add	275.01	
26 29 13 13-0411 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,167.43	329.39
For Electronic Overloads, Add	285.84	
26 29 13 13-0412 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,893.74	384.29
For Electronic Overloads, Add	404.94	
26 29 13 13-0413 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	4,053.11	475.78
For Electronic Overloads, Add	589.00	
26 29 13 13-0414 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	8,329.02	759.42
For Electronic Overloads, Add	1,292.78	
26 29 13 13-0415 EA Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	17,687.40	951.57
For Electronic Overloads, Add	2,998.43	
26 29 13 13-0416 Factory Modifications For NEMA 1 Enclosure (26 29 13 13-0401)		
26 29 13 13-0417 EA Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	186.85	
26 29 13 13-0418 EA H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	438.86	
26 29 13 13-0419 EA Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	302.88	
26 29 13 13-0420 NEMA 4 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0421 EA Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,696.05	274.49
For Electronic Overloads, Add	404.94	
26 29 13 13-0422 EA Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,950.73	384.29
For Electronic Overloads, Add	415.77	
26 29 13 13-0423 EA Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,266.33	420.88
For Electronic Overloads, Add	649.64	
26 29 13 13-0424 EA Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	6,840.56	512.38
For Electronic Overloads, Add	1,106.55	
26 29 13 13-0425 EA Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	10,847.79	759.42
For Electronic Overloads, Add	1,771.34	
26 29 13 13-0426 EA Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	23,990.00	951.57
For Electronic Overloads, Add	4,195.93	
26 29 13 13-0427 NEMA 4 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0428 EA Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,106.35	274.49
For Electronic Overloads, Add	482.90	
26 29 13 13-0429 EA Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,361.02	384.29
For Electronic Overloads, Add	493.72	
26 29 13 13-0430 EA Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	4,665.23	420.88
For Electronic Overloads, Add	725.43	
26 29 13 13-0431 EA Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	7,057.11	512.38
For Electronic Overloads, Add	1,147.69	
26 29 13 13-0432 EA Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	12,090.07	759.42
For Electronic Overloads, Add	2,007.37	
26 29 13 13-0433 EA Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	22,702.13	951.57
For Electronic Overloads, Add	3,951.23	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0434	Factory Modifications For NEMA 4 Enclosure (26 29 13 13-0401)			
26 29 13 13-0435	EA	Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	186.87	
26 29 13 13-0436	EA	H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	438.86	
26 29 13 13-0437	EA	Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	302.88	
26 29 13 13-0438	NEMA 12 With Disconnect Switch (26 29 13 13-0401)			
26 29 13 13-0439	EA	Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,512.59	211.82
		<i>For Electronic Overloads, Add</i>	206.91	
26 29 13 13-0440	EA	Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,811.84	331.49
		<i>For Electronic Overloads, Add</i>	218.28	
26 29 13 13-0441	EA	Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,581.46	381.26
		<i>For Electronic Overloads, Add</i>	345.61	
26 29 13 13-0442	EA	Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,980.73	476.52
		<i>For Electronic Overloads, Add</i>	575.25	
26 29 13 13-0443	EA	Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,364.82	762.54
		<i>For Electronic Overloads, Add</i>	1,109.58	
26 29 13 13-0444	EA	Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	15,017.99	953.03
		<i>For Electronic Overloads, Add</i>	2,491.24	
26 29 13 13-0445	NEMA 12 With Circuit Breaker (26 29 13 13-0401)			
26 29 13 13-0446	EA	Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,002.52	211.82
		<i>For Electronic Overloads, Add</i>	299.99	
26 29 13 13-0447	EA	Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,304.09	331.49
		<i>For Electronic Overloads, Add</i>	311.81	
26 29 13 13-0448	EA	Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,087.34	381.26
		<i>For Electronic Overloads, Add</i>	441.72	
26 29 13 13-0449	EA	Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,334.70	476.52
		<i>For Electronic Overloads, Add</i>	642.51	
26 29 13 13-0450	EA	Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,947.09	762.54
		<i>For Electronic Overloads, Add</i>	1,410.21	
26 29 13 13-0451	EA	Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	19,120.92	953.03
		<i>For Electronic Overloads, Add</i>	3,270.80	
26 29 13 13-0452	Factory Modifications For NEMA 12 Enclosure (26 29 13 13-0401)			
26 29 13 13-0453	EA	Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	185.31	
26 29 13 13-0454	EA	H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	435.21	
26 29 13 13-0455	EA	Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	300.36	
26 29 13 13-0456	NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0401)			
26 29 13 13-0457	EA	Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,552.26	439.18
26 29 13 13-0458	EA	Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,813.30	585.58
26 29 13 13-0459	EA	Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,220.76	805.17
26 29 13 13-0460	EA	Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,764.78	1,097.96
26 29 13 13-0461	EA	Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	11,708.53	1,537.15
26 29 13 13-0462	Factory Modifications For NEMA 7 Or 9 Enclosure (26 29 13 13-0401)			
26 29 13 13-0463	EA	Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,111.19	
26 29 13 13-0464	EA	H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,111.19	
26 29 13 13-0465	EA	Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,111.19	
26 29 13 13-0466	Combination Starters Reversing (26 29 13 13)			
26 29 13 13-0467	240-600 Volt, 3 Pole (26 29 13 13-0466)			
26 29 13 13-0468	NEMA 1 With Disconnect Switch (26 29 13 13-0467)			
26 29 13 13-0469	EA	Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,800.73	274.49
26 29 13 13-0470	EA	Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,081.18	384.29
26 29 13 13-0471	EA	Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,051.46	420.88
26 29 13 13-0472	EA	Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,669.26	512.38
26 29 13 13-0473	EA	Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	9,175.05	759.42
26 29 13 13-0474	NEMA 1 With Circuit Breaker (26 29 13 13-0467)			
26 29 13 13-0475	EA	Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,017.21	274.49
26 29 13 13-0476	EA	Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,312.27	384.29
26 29 13 13-0477	EA	Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,321.98	420.88
26 29 13 13-0478	EA	Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,296.82	512.38
26 29 13 13-0479	EA	Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	9,906.78	759.42
26 29 13 13-0480	NEMA 12 With Disconnect Switch (26 29 13 13-0467)			
26 29 13 13-0481	EA	Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,926.61	282.45
26 29 13 13-0482	EA	Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,215.50	381.26



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Controllers	26 29

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,275.98	423.63
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,041.30	508.35
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	9,954.26	762.54
26 29 13 13-0486 NEMA 12 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,165.15	282.45
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,470.12	381.26
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,574.05	423.63
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,630.93	508.35
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	10,760.52	762.54
26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,302.72	585.58
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,612.86	731.97
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	6,642.55	951.57
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	10,595.48	1,244.35
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	19,399.44	1,683.53
26 29 13 13-0498 Solid State Motor Controllers (26 29 13 13)		
26 29 13 13-0499 Adjustable Voltage Drives, DC Motors (26 29 13 13-0498)		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking	1,437.04	164.69
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	1,739.96	164.69
26 29 13 13-0502 Removal And Reinstallation Of Motor Starters (26 29 13 13)		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	653.54	
26 29 13 13-0504 Auxiliary Devices (26 29 13 13)		
26 29 13 13-0505 EA Auxiliary Contact, Normally Open	418.84	91.50
26 29 13 13-0506 EA Auxiliary Contact, Normally Closed.....	418.84	91.50
26 29 13 13-0507 EA Pilot Light Kit.....	442.64	91.50
26 29 23 Variable-Frequency Motor Controllers (26 29)		
26 29 23 00-0001 208/230 Volt Variable Frequency Drives (26 29 23)		
Note: 1 or 3 phase. Wall mounted. ABB ACH550 or ACS550 Series. Includes full voltage bypass. NEMA 1 enclosure.		
26 29 23 00-0002 EA 3/4 HP, 208/230 Volt Variable Frequency Drive	1,724.81	188.37
26 29 23 00-0003 EA 1 HP, 208/230 Volt Variable Frequency Drive	1,939.85	188.37
26 29 23 00-0004 EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive	2,261.77	188.37
26 29 23 00-0005 EA 2 HP, 208/230 Volt Variable Frequency Drive	2,473.03	188.37
26 29 23 00-0006 EA 3 HP, 208/230 Volt Variable Frequency Drive	2,608.83	188.37
26 29 23 00-0007 EA 5 HP, 208/230 Volt Variable Frequency Drive	2,685.19	188.37
26 29 23 00-0008 EA 7.5 HP, 208/230 Volt Variable Frequency Drive	2,994.30	283.10
26 29 23 00-0009 EA 10 HP, 208/230 Volt Variable Frequency Drive	3,644.00	283.10
26 29 23 00-0010 EA 15 HP, 208/230 Volt Variable Frequency Drive	4,417.28	376.62
26 29 23 00-0011 EA 20 HP, 208/230 Volt Variable Frequency Drive	5,110.49	376.62
26 29 23 00-0012 EA 25 HP, 208/230 Volt Variable Frequency Drive	6,358.20	471.37
26 29 23 00-0013 EA 30 HP, 208/230 Volt Variable Frequency Drive	7,941.29	471.37
26 29 23 00-0014 EA 40 HP, 208/230 Volt Variable Frequency Drive	9,709.81	553.46
26 29 23 00-0015 EA 50 HP, 208/230 Volt Variable Frequency Drive	10,910.71	661.72
26 29 23 00-0016 EA 60 HP, 208/230 Volt Variable Frequency Drive	12,458.04	707.50
26 29 23 00-0017 EA 75 HP, 208/230 Volt Variable Frequency Drive	14,632.91	661.72
26 29 23 00-0018 460/480 Volt Variable Frequency Drives (26 29 23)		
Note: 3 Phase. ABB ACH550 or ACS550 Series. Includes full voltage bypass. NEMA 1 enclosure.		
26 29 23 00-0019 EA 3 HP, 480 Volt Variable Frequency Drive	2,354.02	165.37
Note: Wall mounted.		
26 29 23 00-0020 EA 5 HP, 480 Volt Variable Frequency Drive	2,524.58	188.37
Note: Wall mounted.		
26 29 23 00-0021 EA 7.5 HP, 480 Volt Variable Frequency Drive	2,676.15	283.10
Note: Wall mounted.		
26 29 23 00-0022 EA 10 HP, 480 Volt Variable Frequency Drive	2,962.35	283.11
Note: Wall mounted.		
26 29 23 00-0023 EA 15 HP, 480 Volt Variable Frequency Drive	3,749.55	376.62
Note: Wall mounted.		
26 29 23 00-0024 EA 20 HP, 480 Volt Variable Frequency Drive	4,385.19	376.64
Note: Wall mounted.		
26 29 23 00-0025 EA 25 HP, 480 Volt Variable Frequency Drive	5,505.61	471.38
Note: Wall mounted.		
26 29 23 00-0026 EA 30 HP, 480 Volt Variable Frequency Drive	6,288.93	471.37
Note: Wall mounted.		
26 29 23 00-0027 EA 40 HP, 480 Volt Variable Frequency Drive	7,560.74	553.46
Note: Wall mounted.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0028 EA 50 HP, 480 Volt Variable Frequency Drive Note: Wall mounted.	8,952.78	661.72
26 29 23 00-0029 EA 60 HP, 480 Volt Variable Frequency Drive Note: Wall mounted.	10,415.86	707.50
26 29 23 00-0030 EA 75 HP, 480 Volt Variable Frequency Drive Note: Wall mounted.	11,802.21	753.29
26 29 23 00-0031 EA 100 HP, 480 Volt Variable Frequency Drive Note: Wall mounted.	14,131.36	798.84
26 29 23 00-0032 EA 125 HP, 480 Volt Variable Frequency Drive Note: Wall mounted.	16,787.46	843.72
26 29 23 00-0033 EA 150 HP, 480 Volt Variable Frequency Drive Note: Floor mounted.	19,323.29	942.68
26 29 23 00-0034 EA 200 HP, 480 Volt Variable Frequency Drive Note: Floor mounted.	26,040.04	1,033.55
26 29 23 00-0035 EA 250 HP, 480 Volt Variable Frequency Drive Note: Floor mounted.	33,564.13	1,124.93
26 29 23 00-0036 EA 300 HP, 480 Volt Variable Frequency Drive Note: Floor mounted.	39,523.60	1,318.29
26 29 23 00-0037 EA 350 HP, 480 Volt Variable Frequency Drive Note: Floor mounted.	45,910.82	1,493.30
26 29 23 00-0038 EA 400 HP, 480 Volt Variable Frequency Drive Note: Floor mounted.	53,764.10	1,687.44
26 29 23 00-0039 EA 450 HP, 480 Volt Variable Frequency Drive Note: Floor mounted.	58,014.31	1,895.96

26 30 Facility Electrical Power Generating And Storing Equipment

(26)

26 31 Photovoltaic Collectors (26 31)**26 31 00 00-0001****Photovoltaic Collectors** (26 31)

Note: All materials are to be installed per manufacturers specifications and must be in compliance with the California Energy Commission Guidelines (CEC-300-2011-005-CMF). See CSI section 26 28 13 00-0078 for fuses.

26 31 00 00-0002**Rigid Photovoltaic Modules** (26 31)**26 31 00 00-0003****Sanyo Rigid Photovoltaic Modules** (26 31 00 00-0002)

26 31 00 00-0004 EA 205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	1,247.50	86.93
For >50, Deduct	-107.37	
26 31 00 00-0005 EA 210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	1,305.70	86.93
For >50, Deduct	-113.19	
26 31 00 00-0006 EA 215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	1,224.67	86.93
For >50, Deduct	-105.08	

26 31 00 00-0007**Sharp Rigid Photovoltaic Modules** (26 31 00 00-0002)

26 31 00 00-0008 EA 224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	985.43	86.93
For >50, Deduct	-81.16	
26 31 00 00-0009 EA 230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3).....	1,115.34	86.93
For >50, Deduct	-94.15	
26 31 00 00-0010 EA 235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1).....	1,135.92	86.93
For >50, Deduct	-96.21	
26 31 00 00-0011 EA 240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1).....	1,071.61	86.93
For >50, Deduct	-89.78	

26 31 00 00-0012**BP Solar Rigid Photovoltaic Modules** (26 31 00 00-0002)

Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.

26 31 00 00-0013 EA 50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J).....	506.90	86.93
For >50, Deduct	-33.31	
26 31 00 00-0014 EA 75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J).....	616.23	86.93
For >50, Deduct	-44.24	
26 31 00 00-0015 EA 80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J).....	659.96	86.93
For >50, Deduct	-48.61	

26 31 00 00-0016**Photovoltaic Inverters** (26 31)**26 31 00 00-0017****Fronius Photovoltaic Inverters** (26 31 00 00-0016)

26 31 00 00-0018 EA 3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1).....	2,917.57	91.50
26 31 00 00-0019 EA 5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1).....	3,834.57	91.50
26 31 00 00-0020 EA 6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1).....	4,045.25	91.50
26 31 00 00-0021 EA 7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1).....	4,517.92	91.50
26 31 00 00-0022 EA 10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1).....	7,128.75	91.50
26 31 00 00-0023 EA 12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1).....	8,279.62	91.50
26 31 00 00-0024 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta).....	6,794.20	182.99
26 31 00 00-0025 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3).....	8,575.73	182.99
26 31 00 00-0026 EA Inverter Display Stand (Fronius 4,045,894).....	273.75	45.75



		Electrical	26
		Facility Electrical Power Generating And Storing Equipment	26 30
		Photovoltaic Collectors	26 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0027 SMA Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0028 EA 4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22).....	2,180.45	91.50
26 31 00 00-0029 EA 5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22).....	2,608.59	91.50
26 31 00 00-0030 EA 6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22).....	3,007.59	91.50
26 31 00 00-0031 EA 7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22).....	3,312.20	91.50
26 31 00 00-0032 EA 8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12).....	3,209.59	91.50
26 31 00 00-0033 PVPowered Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0034 EA 120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100).....	2,684.82	91.50
26 31 00 00-0035 EA 240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000).....	2,805.95	91.50
26 31 00 00-0036 EA 240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500).....	3,095.64	91.50
26 31 00 00-0037 EA 240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500).....	3,673.35	114.37
26 31 00 00-0038 EA 208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600).....	4,477.55	137.25
26 31 00 00-0039 EA 240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800).....	4,514.42	137.25
26 31 00 00-0040 EA 240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200).....	4,759.86	137.25
26 31 00 00-0041 EA 208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	56,317.28	731.97
26 31 00 00-0042 EA 480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	56,391.35	731.97
26 31 00 00-0043 EA 208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	60,992.00	731.97
26 31 00 00-0044 EA 480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	56,568.13	731.97
26 31 00 00-0045 Solectria Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0046 EA 208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI).....	8,897.64	182.99
26 31 00 00-0047 EA 208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI).....	8,897.64	182.99
26 31 00 00-0048 EA 208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI).....	9,155.30	182.99
26 31 00 00-0049 EA 480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI).....	9,155.30	182.99
26 31 00 00-0050 EA 208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI).....	27,866.75	548.98
26 31 00 00-0051 EA 480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI).....	26,578.41	548.98
26 31 00 00-0052 EA 208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI).....	30,443.42	548.98
26 31 00 00-0053 EA 480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI).....	29,727.68	548.98
26 31 00 00-0054 EA 208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI).....	32,304.35	548.98
26 31 00 00-0055 EA 480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI).....	30,872.87	548.98
26 31 00 00-0056 EA 208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI).....	34,101.83	731.97
26 31 00 00-0057 EA 480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI).....	32,527.20	731.97
26 31 00 00-0058 EA 208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI).....	35,390.17	731.97
26 31 00 00-0059 EA 480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI).....	33,529.24	731.97
26 31 00 00-0060 Xantrex Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0061 EA 0.6 KW Photovoltaic Inverter (Xantrex 806-1206).....	379.20	22.88
26 31 00 00-0062 EA 1 KW Photovoltaic Inverter (Xantrex 806-1210).....	412.32	22.88
26 31 00 00-0063 EA 2 KW Photovoltaic Inverter (Xantrex 806-1220).....	655.72	22.88
26 31 00 00-0064 Photovoltaic DC-DC Converters (26 31)		
26 31 00 00-0065 EA 15 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20).....	233.25	34.31
Note: Hazardous locations.		
26 31 00 00-0066 EA 20 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23).....	161.23	34.31
26 31 00 00-0067 EA 60 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60).....	418.47	34.31
26 31 00 00-0068 Photovoltaic Combiner Boxes (26 31)		
26 31 00 00-0069 Midnight Solar Photovoltaic Combiner Boxes (26 31 00 00-0068)		
26 31 00 00-0070 EA 3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3).....	304.44	91.50
26 31 00 00-0071 EA 6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6).....	297.77	91.50
26 31 00 00-0072 EA 12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12).....	469.67	137.25
26 31 00 00-0073 EA 6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250).....	472.00	137.25
26 31 00 00-0074 EA 16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16).....	688.37	137.25
26 31 00 00-0075 SMA Photovoltaic Combiner Boxes (26 31 00 00-0068)		
26 31 00 00-0076 EA 6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6).....	619.26	91.50
26 31 00 00-0077 EA 12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12).....	732.93	91.50
26 31 00 00-0078 EA 28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28).....	1,422.42	182.99
26 31 00 00-0079 EA 52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52).....	3,153.10	182.99
26 31 00 00-0080 EA 4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch).....	557.74	91.50
26 31 00 00-0081 Photovoltaic Charge Controller (26 31)		
26 31 00 00-0082 EA 35 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-35).....	189.52	34.31
26 31 00 00-0083 EA 40 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-40).....	247.40	34.31
26 31 00 00-0084 EA 60 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-60).....	285.99	34.31
26 31 00 00-0085 EA Remote Digital Meter For Xantrex C-35, 40 And 60.....	222.96	34.31
26 31 00 00-0086 EA MPPT Charge Controller (Xantrex XW SCC).....	737.11	45.75

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 31 Photovoltaic Collectors**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 31 00 00-0087	Photovoltaic Batteries (26 31)		
26 31 00 00-0088	Concorde Photovoltaic Batteries (26 31 00 00-0087)		
26 31 00 00-0089	EA 34 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T)	166.27	13.73
26 31 00 00-0090	EA 45 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T)	210.11	18.30
26 31 00 00-0091	EA 49 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T)	226.88	18.30
26 31 00 00-0092	EA 56 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T)	263.12	27.45
26 31 00 00-0093	EA 69 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T)	297.83	27.45
26 31 00 00-0094	EA 89 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T)	353.25	32.02
26 31 00 00-0095	EA 104 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T)	404.98	36.59
26 31 00 00-0096	EA 108 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T)	400.57	36.59
26 31 00 00-0097	EA 210 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T)	723.17	43.46
26 31 00 00-0098	EA 255 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T)	834.17	45.75
26 31 00 00-0099	Deka Photovoltaic Batteries (26 31 00 00-0087)		
26 31 00 00-0100	EA 31 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8GU1)	178.30	22.91
26 31 00 00-0101	EA 50 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G22NF)	241.32	22.91
26 31 00 00-0102	EA 74 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G24)	350.65	22.91
26 31 00 00-0103	EA 86 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G27)	399.52	22.91
26 31 00 00-0104	EA 98 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G31)	400.81	22.91
26 31 00 00-0105	EA 183 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G4D)	766.09	22.91
26 31 00 00-0106	EA 225 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G8D)	884.42	22.91
26 31 00 00-0107	Battery Enclosures (26 31 00 00-0087)		
26 31 00 00-0108	EA 14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010)	200.09	22.88
26 31 00 00-0109	EA 22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC)	937.16	22.91
26 31 00 00-0110	EA 37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL)	881.85	22.91
26 31 00 00-0111	EA 37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC)	1,171.24	22.91
26 31 00 00-0112	EA 15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1)	528.14	22.91
26 31 00 00-0113	EA 31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP)	1,226.55	22.91
26 31 00 00-0114	Photovoltaic System Monitoring (26 31)		
26 31 00 00-0115	EA Solar Inverter Monitor (Xantrex 864-0203)	421.02	45.75
26 31 00 00-0116	EA Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox)	835.80	22.88
26 31 00 00-0117	EA Sun Radiation And Temperature Monitor (SMA Sunny SensorBox)	700.14	22.88
26 31 00 00-0118	EA PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA)	138.12	22.88
26 31 00 00-0119	EA Wind Sensor Accessory For Sunny SensorBox (SMA)	336.24	45.75
26 31 00 00-0120	EA Sunny Boy Control with RS485 (SMA)	822.29	22.88
26 31 00 00-0121	EA RS 485 Module (SMA)	195.45	22.88
26 31 00 00-0122	EA RS 232 Module (SMA)	200.09	22.88
26 31 00 00-0123	EA Wireless Monitor with Bluetooth (SMA Sunny Beam)	376.66	
26 31 00 00-0124	EA Bluetooth Piggy-Back Computer Card (SMA)	202.60	22.88
26 31 00 00-0125	EA RS485-N Communication Computer Card (SMA)	201.30	22.88
26 31 00 00-0126	EA Bluetooth Repeater (SMA)	370.47	22.88
26 31 00 00-0127	EA Sunny Boy PC Service Cable (SMA)	174.10	6.86
26 31 00 00-0128	EA Integrated Revenue Grade Meter, Option (PVPowered)	3,299.10	
26 31 00 00-0129	EA Data Monitoring Module (PVPowered PVM1010)	369.71	22.88
26 31 00 00-0130	EA Wireless IG Personal Display (Fronius 4,240,108)	382.31	
26 31 00 00-0131	EA DatCom Power Supply (Fronius 43,0001,2311)	123.06	
26 31 00 00-0132	EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z)	224.50	22.88
26 31 00 00-0133	EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z)	191.58	22.88
26 31 00 00-0134	EA Datalogger Pro Box (Fronius 4,240,102)	721.37	22.88
26 31 00 00-0135	EA Datalogger Easy Box (Fronius 4,240,103)	472.94	22.88
26 31 00 00-0136	EA Datalogger Interface Box (Fronius 4,240,105)	813.04	22.88
26 31 00 00-0137	EA Datalogger Web (Fronius 4,240,122)	1,389.51	22.88
26 31 00 00-0138	EA Interface Box (Fronius 4,240,109)	381.07	22.88
26 31 00 00-0139	EA Interface Card (Fronius 4,240,009,Z)	274.93	22.88
26 31 00 00-0140	EA Interface Card Easy (Fronius 4,240,013,Z)	184.89	22.88
26 31 00 00-0141	EA Sensor Box (Fronius 4,240,104)	752.93	22.88
26 31 00 00-0142	EA Ambient Temperature Sensor (Fronius 43,0001,1188)	92.90	22.88
26 31 00 00-0143	EA Irradiance Sensor (Fronius 43,0001,1188)	268.40	22.88
26 31 00 00-0144	EA Module Temperature Sensor (Fronius 43,0001,1190)	297.71	22.88
26 31 00 00-0145	EA Wind Speed Sensor (Fronius 42,0411,0027)	173.08	45.75
26 31 00 00-0146	Photovoltaic System Accessories (26 31)		
26 31 00 00-0147	EA Four Inverter Bypass Switch (OutBack AC-IOB-100Q)	568.98	45.75
26 31 00 00-0148	EA Line Communication Filter (Enphase LCF)	1,236.39	91.50
26 31 00 00-0149	EA 15 Meter RS 485 Communication Cable (SMA)	94.76	6.86
26 31 00 00-0150	EA 15 Meter RS 232 Communication Cable (SMA)	141.06	6.86
26 31 00 00-0151	EA 24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	22.66	2.26
26 31 00 00-0152	EA 36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	24.21	2.26
26 31 00 00-0153	EA 48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	25.09	2.26
26 31 00 00-0154	EA 72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	27.52	2.26
26 31 00 00-0155	EA 120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	31.17	2.26



		Electrical	26
		Facility Electrical Power Generating And Storing Equipment	26 30
		Photovoltaic Collectors	26 31

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0156 EA 240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	50.19	4.53
26 31 00 00-0157 EA 360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	61.51	4.53
26 31 00 00-0158 EA 420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	81.35	6.79
26 31 00 00-0159 EA 36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	28.13	2.26
26 31 00 00-0160 EA 120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	38.46	2.26
26 31 00 00-0161 EA 240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	57.49	4.53
26 31 00 00-0162 EA 360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	75.72	4.53
26 31 00 00-0163 EA 600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	124.08	9.06
26 31 00 00-0164 EA 1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	129.22	9.06
26 31 00 00-0165 EA Lighting Kit, 9W Fluorescent, 12 V 4.5 Amp Hour Battery	2,304.58	247.04
Note: Tamper proof enclosure.		
26 31 00 00-0166 Photovoltaic Mounting Systems (26 31)		
26 31 00 00-0167 LF Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard)	8.58	2.28
26 31 00 00-0168 EA Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229)	26.91	11.43
26 31 00 00-0169 EA Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216)	32.64	11.43
26 31 00 00-0170 EA 8" x 3/8" Hanger Bolt (UNIRAC 310046)	16.53	4.58
Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0171 EA Mounting Rail Grounding Clip (UNIRAC 980006)	8.46	3.43
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		
26 31 00 00-0172 EA Mounting Rail Grounding Lugs (UNIRAC 980012)	16.80	4.58
Note: Two grounding lugs for each rail splice and one additional lug for each rail.		
26 31 00 00-0173 EA Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002)	4.65	1.52
Note: Four for each row of modules you plan to mount.		
26 31 00 00-0174 EA Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008)	4.84	1.52
Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.		
26 31 00 00-0175 EA Photovoltaic Module Mount L-Foot (UNIRAC 310065)	12.36	4.58
26 31 00 00-0176 EA 12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121)	71.50	22.88
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0177 EA 30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122)	77.98	22.88
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0178 EA 44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123)	83.20	22.88
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0179 EA 12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107)	105.35	34.31
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0180 EA 44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108)	124.80	34.31
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0181 EA 72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109)	142.45	34.31
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0182 EA 18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111)	160.65	45.75
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0183 EA 64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112)	207.10	45.75
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0184 EA 104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110)	293.19	68.62
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0185 EA Ballasted Photovoltaic Module Frame (UNIRAC 310351)	143.53	
Note: Excludes ballast.		
26 31 00 00-0186 EA Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355)	264.19	
Note: Excludes ballast.		
26 31 00 00-0187 EA 3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051)	58.55	22.88
26 31 00 00-0188 EA 4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052)	59.15	22.88
26 31 00 00-0189 EA 6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053)	59.69	22.88
26 31 00 00-0190 EA 7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054)	61.06	22.88
26 31 00 00-0191 EA 3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553)	54.93	22.88
26 31 00 00-0192 EA 4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554)	55.62	22.88
26 31 00 00-0193 EA 6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555)	57.63	22.88
26 31 00 00-0194 EA 7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556)	57.06	22.88
26 31 00 00-0195 EA 3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390)	107.87	34.31
26 31 00 00-0196 EA 4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391)	108.29	34.31
26 31 00 00-0197 EA 7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394)	109.51	34.31
26 31 00 00-0198 EA Photovoltaic Module RapidFoot Standoff Assembly (UNIRAC 310370)	108.24	34.31
26 31 00 00-0199 EA Photovoltaic Module Standoff Flashing (UNIRAC 990103)	20.46	4.58
26 31 00 00-0200 EA Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161)	14.21	4.58
26 31 00 00-0201 EA 1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100)	26.12	6.86
26 31 00 00-0202 EA 3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100)	27.05	6.86
26 31 00 00-0203 EA Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100)	7.37	1.52
Note: Mid or end clamp.		
26 31 00 00-0204 EA Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024)	32.50	4.58
26 31 00 00-0205 EA Photovoltaic Module Wire Clip (UNIRAC 908002S-0100)	1.92	

26 32 Packaged Generator Assemblies (26 30)

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 Engine Generators (26 32)				
26 32 13 13 Diesel-Engine-Driven Generator Sets (26 32 13)				
26 32 13 13-0001 Diesel Generator Sets (26 32 13 13)				
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes manufacturer's representative at startup. Excludes fuel tank, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0707 for loadbank rental, 26 36 23 00-0000 for automatic transfer switch.				
26 32 13 13-0002	EA	25 KW Diesel Generator Set, 3 Phase (Cummins DSKCA).....	18,191.88	789.22
		For Weather Resistant Steel Diesel Generator Enclosure, Add	3,410.99	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	10,702.29	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,684.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,797.21	
26 32 13 13-0003	EA	35 KW Diesel Generator Set, 3 Phase (Cummins DSFAA).....	22,996.15	971.72
		For Weather Resistant Steel Diesel Generator Enclosure, Add	3,410.99	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	10,702.29	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,684.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,797.21	
26 32 13 13-0004	EA	40 KW Diesel Generator Set, 3 Phase (Cummins DSFAB).....	23,711.66	1,065.44
		For Weather Resistant Steel Diesel Generator Enclosure, Add	3,410.99	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	10,702.29	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,684.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,797.21	
26 32 13 13-0005	EA	50 KW Diesel Generator Set, 3 Phase (Cummins DSFAC).....	25,490.72	1,223.28
		For Weather Resistant Steel Diesel Generator Enclosure, Add	3,410.99	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	10,702.29	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,684.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,797.21	
26 32 13 13-0006	EA	60 KW Diesel Generator Set, 3 Phase (Cummins DSFAD).....	27,282.25	1,405.79
		For Weather Resistant Steel Diesel Generator Enclosure, Add	3,410.99	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	10,702.29	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,684.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,797.21	
26 32 13 13-0007	EA	80 KW Diesel Generator Set, 3 Phase (Cummins DSFAE).....	30,454.64	1,647.49
		For Weather Resistant Steel Diesel Generator Enclosure, Add	3,410.99	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	10,702.29	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,684.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,797.21	
26 32 13 13-0008	EA	100 KW Diesel Generator Set, 3 Phase (Cummins DSGAA).....	35,567.13	1,913.84
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,173.75	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,362.88	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,142.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	17,861.55	
26 32 13 13-0009	EA	125 KW Diesel Generator Set, 3 Phase (Cummins DSGAB).....	36,866.56	2,268.99
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,173.75	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,362.88	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,142.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	17,861.55	
26 32 13 13-0010	EA	150 KW Diesel Generator Set, 3 Phase (Cummins DSGAC).....	40,652.17	2,500.82
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,173.75	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,362.88	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,142.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	17,861.55	
26 32 13 13-0011	EA	175 KW Diesel Generator Set, 3 Phase (Cummins DSHAB).....	47,104.56	2,791.85
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,173.75	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,362.88	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,142.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	17,861.55	
26 32 13 13-0012	EA	200 KW Diesel Generator Set, 3 Phase (Cummins DSHAC).....	50,382.78	3,058.21
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,173.75	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,362.88	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,142.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	17,861.55	
26 32 13 13-0013	EA	230 KW Diesel Generator Set, 3 Phase (Cummins DSHAD).....	56,470.96	3,230.85
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,173.75	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,362.88	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,142.98	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	17,861.55	
26 32 13 13-0014	EA	250 KW Diesel Generator Set, 3 Phase (Cummins DQDAA).....	59,011.17	3,364.03
		For Weather Resistant Steel Diesel Generator Enclosure, Add	33,553.05	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	49,537.29	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	40,694.81	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	60,552.99	
26 32 13 13-0015	EA	275 KW Diesel Generator Set, 3 Phase (Cummins DQHAA).....	64,321.08	3,546.53
		For Weather Resistant Steel Diesel Generator Enclosure, Add	33,553.05	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	49,537.29	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	40,694.81	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	60,552.99	
26 32 13 13-0016	EA	300 KW Diesel Generator Set, 3 Phase (Cummins DQHAB).....	65,641.67	3,704.38
		For Weather Resistant Steel Diesel Generator Enclosure, Add	33,553.05	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	49,537.29	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	40,694.81	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	60,552.99	



		Electrical	26
		Facility Electrical Power Generating And Storing Equipment	26 30
		Packaged Generator Assemblies	26 32

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 32 13 13-0017	EA 350 KW Diesel Generator Set, 3 Phase (Cummins DFEG) For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	74,615.85 33,553.05 49,537.29 40,694.81 60,552.99		4,143.38
26 32 13 13-0018	EA 400 KW Diesel Generator Set, 3 Phase (Cummins DFEH) For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	80,717.15 33,553.05 49,537.29 40,694.81 60,552.99		4,537.99
26 32 13 13-0019	EA 450 KW Diesel Generator Set, 3 Phase (Cummins DFEJ) For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	91,612.61 33,553.05 49,537.29 40,694.81 60,552.99		4,888.20
26 32 13 13-0020	EA 500 KW Diesel Generator Set, 3 Phase (Cummins DFEK)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	96,721.24 33,553.05 49,537.29 40,694.81 60,552.99		5,208.82
26 32 13 13-0021	EA 600 KW Diesel Generator Set, 3 Phase (Cummins DQCA)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	140,975.57 68,542.72 110,055.28 80,619.60 128,212.74		5,736.61
26 32 13 13-0022	EA 750 KW Diesel Generator Set, 3 Phase (Cummins DQCB)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	161,388.36 68,542.72 110,055.28 80,619.60 128,212.74		6,308.79
26 32 13 13-0023	EA 800 KW Diesel Generator Set, 3 Phase (Cummins DQCC)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	168,504.14 68,542.72 110,055.28 80,619.60 128,212.74		6,446.90
26 32 13 13-0024	EA 900 KW Diesel Generator Set, 3 Phase (Cummins DQFAC)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	205,392.07 68,542.72 110,055.28 80,619.60 128,212.74		6,950.02
26 32 13 13-0025	EA 1,000 KW Diesel Generator Set, 3 Phase (Cummins DQFAD)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	228,903.99 68,542.72 110,055.28 80,619.60 128,212.74		7,398.89
26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)				
26 32 13 19-0001 Natural Gas Or Propane Generator Sets (26 32 13 19)				
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes manufacturer's representative at startup. Excludes fuel tank, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0707 for loadbank rental, 26 36 23 00-0000 for automatic transfer switches.				
26 32 13 19-0002	EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	14,472.78 3,102.35 10,702.29 3,360.07 5,574.68		660.97
26 32 13 19-0003	EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	16,365.47 3,102.35 10,702.29 3,360.07 5,574.68		789.22
26 32 13 19-0004	EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	17,517.68 3,102.35 10,702.29 3,360.07 5,574.68		878.00
26 32 13 19-0005	EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	19,084.60 3,102.35 10,702.29 9,504.31 15,952.42		971.72
26 32 13 19-0006	EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	19,654.93 3,102.35 10,702.29 9,504.31 15,952.42		1,065.44
26 32 13 19-0007	EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	20,274.61 3,102.35 10,702.29 9,504.31 15,952.42		1,149.29

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0008 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE)	22,038.81	1,405.79
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,102.35	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	10,702.29	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	9,504.31	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,952.42	
26 32 13 19-0009 EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF)	23,447.17	1,573.50
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,102.35	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	10,702.29	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	9,504.31	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,952.42	
26 32 13 19-0010 EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG)	28,121.24	1,682.01
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	5,654.22	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,362.88	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	11,142.98	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,952.42	
26 32 13 19-0011 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH)	30,523.70	1,894.12
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	5,654.22	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,362.88	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	11,142.98	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,952.42	
26 32 13 19-0012 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA)	38,274.78	2,268.99
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	5,654.22	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,362.88	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	11,142.98	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,952.42	
26 32 13 19-0013 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB)	43,622.18	2,500.82
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	5,654.22	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,362.88	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	11,142.98	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,952.42	
26 32 13 19-0014 EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA)	105,924.88	6,651.99
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	30,173.88	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	44,535.35	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	32,991.44	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	49,507.05	
26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB)	112,860.19	3,003.95
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	30,173.88	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	44,535.35	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	32,991.44	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	49,507.05	
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC)	114,252.99	3,364.03
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	30,173.88	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	44,535.35	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	32,991.44	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	49,507.05	
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFEA)	157,241.72	3,704.38
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	30,173.88	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	44,535.35	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	32,991.44	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	49,507.05	
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB)	158,791.75	4,143.38
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	30,173.88	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	44,535.35	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	32,991.44	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	49,507.05	
26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFGA)	223,381.49	4,888.20
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	65,885.84	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	93,337.62	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	74,834.91	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	105,767.68	
26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB)	304,128.48	5,208.82
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	65,885.84	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	93,337.62	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	74,834.91	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	105,767.68	
26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC)	320,032.62	5,489.98
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	65,885.84	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	93,337.62	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	74,834.91	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	105,767.68	
26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA)	364,688.30	5,736.61
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	65,885.84	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	93,337.62	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	74,834.91	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	105,767.68	
26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB)	381,341.43	5,953.64
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	65,885.84	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	93,337.62	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	74,834.91	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	105,767.68	
26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC)	403,348.15	6,363.04
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	65,885.84	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	93,337.62	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	74,834.91	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	105,767.68	



		Electrical	26
		Facility Electrical Power Generating And Storing Equipment	26 30
		Packaged Generator Assemblies	26 32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets (26 32 13 19)		
26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.	3,551.63	422.51
26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	4,470.80	469.46
26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	5,147.17	513.32
26 32 13 26 AC To DC Electrical Conversion (26 32 13)		
26 32 13 26-0001 60 Hz AC Input 230 Or 460 Volts, 125 Volt DC Output (26 32 13 26)		
26 32 13 26-0002 EA 3 KW, 24 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	5,484.58	182.99
26 32 13 26-0003 EA 5 KW, 40 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	6,661.98	182.99
26 32 13 26-0004 EA 7.5 KW, 60 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,797.59	182.99
26 32 13 26-0005 EA 10 KW, 80 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,866.12	182.99
26 32 13 26-0006 EA 15 KW, 120 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,853.84	228.74
26 32 13 26-0007 EA 20 KW, 160 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,662.83	228.74
26 32 13 26-0008 EA 25 KW, 200 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,160.31	228.74
26 32 13 26-0009 EA 40 KW, 320 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	13,602.61	301.94
26 32 13 26-0010 EA 50 KW, 400 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	15,102.40	301.94
26 32 13 26-0011 60 Hz AC Input, 230 Or 460 Volts, 250 Volts DC Output (26 32 13 26)		
26 32 13 26-0012 EA 3 KW, 12 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	6,336.96	182.99
26 32 13 26-0013 EA 5 KW, 20 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	7,540.20	182.99
26 32 13 26-0014 EA 7.5 KW, 30 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,612.13	182.99
26 32 13 26-0015 EA 10 KW, 40 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,848.73	182.99
26 32 13 26-0016 EA 15 KW, 60 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,032.84	228.74
26 32 13 26-0017 EA 20 KW, 80 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,023.15	228.74
26 32 13 26-0018 EA 25 KW, 100 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,383.48	228.74
26 32 13 26-0019 EA 40 KW, 160 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	13,549.14	301.94
26 32 13 26-0020 EA 50 KW, 200 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,365.10	301.94
26 32 29 Rotary Converters (26 32)		
26 32 29 00-0001 460 Volt 3 Phase AC Motor Drive 250 Volt DC (26 32 29)		
26 32 29 00-0002 EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	17,211.42	3,452.81
26 32 29 00-0003 EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	19,213.84	3,452.81
26 32 29 00-0004 EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	21,918.05	4,932.59
26 32 29 00-0005 EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	25,422.12	4,932.59
26 32 29 00-0006 EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	28,728.47	4,932.59
26 32 29 00-0007 EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	33,923.72	7,398.89
26 32 29 00-0008 EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	41,344.29	7,398.89
26 32 29 00-0009 4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC (26 32 29)		
26 32 29 00-0010 EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	59,094.37	9,865.18
26 32 29 00-0011 EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	64,446.87	9,865.18
26 32 29 00-0012 EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	77,458.69	12,824.74
26 32 29 00-0013 EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	88,150.65	15,586.99
26 32 29 00-0014 EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	104,157.98	15,586.99
26 32 29 00-0015 EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	147,387.59	23,281.83
26 32 29 00-0016 EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	153,000.62	23,281.83
26 32 29 00-0017 EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	175,823.04	27,129.26
26 33 Battery Equipment (26 30)		
26 33 13 Batteries (26 33)		
26 33 13 00-0001 Standby Batteries (26 33 13)		
26 33 13 00-0002 EA 12 Volt, 100 Amp Hours To 10.5 Volts Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery	671.88	22.91
26 33 13 00-0003 EA 12 Volt, 100 Amp Hours To 10.5 Volts Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket	724.93	22.91
26 33 13 00-0004 EA 725CCA, Group 31, 12 Volt Lead Calcium Standby Battery	219.77	22.91
26 33 13 00-0005 EA 810CCA, Group 24, 12 Volt Lead Calcium Standby Battery	200.64	22.91
26 33 13 00-0006 EA 1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery	337.05	22.91
26 33 13 00-0007 EA 1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery	389.91	22.91
26 33 43 Battery Chargers (26 33)		
26 33 43 00-0001 Solid State Chargers, Single Phase (26 33 43)		
Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.		
26 33 43 00-0002 EA Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt	2,120.33	522.80
26 33 43 00-0003 EA Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt	2,455.07	522.80
26 33 43 00-0004 EA Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt	2,699.19	522.80
26 33 43 00-0005 EA Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt	2,865.94	618.99

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 33 Battery Equipment**
 MINOR
CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST
26 33 53 Static Uninterruptible Power Supply (26 33)

26 33 53 00-0001	Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)		
26 33 53 00-0002	Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53 00-0001)		
26 33 53 00-0003	120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
	Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0004 EA	0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120).....	904.69	90.58
	Note: Includes 12 minutes of battery backup at full load.		
26 33 53 00-0005 EA	0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120).....	1,081.04	105.67
	Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0006 EA	1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120).....	1,333.93	120.77
	Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0007 EA	1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120).....	1,631.31	135.88
	Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0008 EA	2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120).....	2,096.90	150.97
	Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0009 EA	3 kVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120).....	3,478.19	211.36
	Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0010	208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
	Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0011 EA	3 kVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208).....	3,415.33	211.36
	Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0012	120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
	Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0013 EA	5 kVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208).....	5,133.17	241.55
	Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0014 EA	6 kVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208).....	5,612.35	271.74
	Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0015 EA	8 kVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208).....	8,403.48	332.13
	Note: Includes 7 minutes of battery backup at full load.		
26 33 53 00-0016 EA	10 kVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208).....	9,662.89	362.32
	Note: Includes 4-1/2 minutes of battery backup at full load.		
26 33 53 00-0017	230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
	Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018 EA	0.7 kVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230).....	1,081.04	105.67
	Note: Includes 11 minutes of battery backup at full load.		
26 33 53 00-0019 EA	1 kVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230).....	1,333.93	120.77
	Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0020 EA	1.5 kVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230).....	1,649.88	135.88
	Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0021 EA	2 kVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230).....	2,101.38	150.97
	Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0022 EA	3 kVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230).....	3,492.15	211.36
	Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0023 EA	5 kVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230).....	4,923.23	241.55
	Note: Includes 9 minutes of battery backup at full load.		
26 33 53 00-0024 EA	6 kVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230).....	6,048.83	271.74
	Note: Includes 6 minutes of battery backup at full load.		



		Electrical	26
		Facility Electrical Power Generating And Storing Equipment	26 30
		Battery Equipment	26 33

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0025	EA	10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230)..... Note: Includes 3 minutes of battery backup at full load.	9,362.78	362.32
26 33 53 00-0026 Optional Accessories For Single Phase, Uninterruptible Power Supply Systems (26 33 53 00-0001)				
26 33 53 00-0027	EA	External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT)..... Note: Rack mount or tower configuration.	606.53	27.45
26 33 53 00-0028	EA	External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT)..... Note: Rack mount or tower configuration.	795.37	27.45
26 33 53 00-0029	EA	External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT)..... Note: Rack mount or tower configuration.	774.35	27.45
26 33 53 00-0030	EA	External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT)..... Note: Rack mount or tower configuration.	525.18	27.45
26 33 53 00-0031	EA	Replacement Internal Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT).....	766.56	90.58
26 33 53 00-0032	EA	Replacement Internal Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT).....	858.05	120.77
26 33 53 00-0033 Three Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)				
26 33 53 00-0034 Optional Accessories For Three Phase, Uninterruptible Power Supply Systems (26 33 53 00-0033)				
26 33 53 00-0035	EA	Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	538.76	45.75
26 33 53 00-0036	EA	Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	870.09	45.75
26 33 53 00-0037	EA	Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	1,660.22	91.50
26 33 53 00-0038	EA	Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	5,149.74	365.98
26 33 53 00-0039	EA	12 Volt, 491 Watts, 3 Phase, 134 Amp Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	354.88	45.75
26 33 53 00-0040	EA	12 Volt, 204 Watts, 3 Phase, 55 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	196.33	45.75
26 33 53 00-0041	EA	12 Volt, 257 Watts, 3 Phase, 65 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	219.47	45.75
26 33 53 00-0042	EA	12 Volt, 311 Watts, 3 Phase, 75 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	242.60	45.75
26 33 53 00-0043	EA	12 Volt, 374 Watts, 3 Phase, 90 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	284.25	45.75
26 33 53 00-0044	EA	12 Volt, 415 Watts, 3 Phase, 100 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	298.13	45.75
26 33 53 00-0045	EA	12 Volt, 493 Watts, 3 Phase, 135 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	369.85	45.75
26 33 53 00-0046	EA	12 Volt, 540 Watts, 3 Phase, 150 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	387.20	45.75
26 33 53 00-0047 Other Uninterruptable Power Supply Equipment (26 33 53)				
26 33 53 00-0048	EA	Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	3,461.51	83.64
26 33 53 00-0049	EA	Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	4,196.77	167.30
26 33 53 00-0050	EA	GE Plug-In Breakers 1 Pole 15- 60A For UPS Distribution Panel.....	20.25	5.02
26 33 53 00-0051	EA	GE Plug-In Breakers 2 Pole 15- 40A For UPS Distribution Panel.....	35.27	6.27
26 33 53 00-0052	EA	GE Plug-In Breakers 2 Pole 50- 80A For UPS Distribution Panel.....	63.67	6.27
26 33 53 00-0053	EA	GE Plug-In Breakers 3 Pole 15- 60A For UPS Distribution Panel.....	92.84	8.37
26 33 53 00-0054	EA	GE Plug-In Breakers 3 Pole 70- 100A For UPS Distribution Panel.....	130.32	8.37
26 33 53 00-0055	EA	Uninterrupted Power Supply Remote Status Panel.....	2,382.37	83.64
26 33 53 00-0056	EA	Uninterrupted Power Supply Remote Contact Board.....	807.02	62.74
26 35 Power Filters And Conditioners (26 30)				
26 35 33 Power Factor Correction Equipment (26 35)				
26 35 33 00-0001 Power Factor Correction Capacitors (26 35 33)				
26 35 33 00-0002	EA	Power Factor Correction Capacitors, 2.0 KVAR.....	568.98	
26 35 33 00-0003	EA	Power Factor Correction Capacitors, 3.0 KVAR.....	630.16	
26 35 33 00-0004	EA	Power Factor Correction Capacitors, 4.0 KVAR.....	691.34	
26 35 33 00-0005	EA	Power Factor Correction Capacitors, 5.0 KVAR.....	750.08	
26 35 33 00-0006	EA	Power Factor Correction Capacitors, 7.5 KVAR.....	921.38	
26 35 33 00-0007	EA	Power Factor Correction Capacitors, 10.0 KVAR.....	1,125.73	
26 35 33 00-0008	EA	Power Factor Correction Capacitors, 15.0 KVAR.....	1,738.76	
26 35 33 00-0009	EA	Power Factor Correction Capacitors, 20.0 KVAR.....	2,111.96	
26 35 33 00-0010	EA	Power Factor Correction Capacitors, 25.0 KVAR.....	2,728.67	
26 35 33 00-0011	EA	Power Factor Correction Capacitors, 30.0 KVAR.....	3,103.09	
26 35 33 00-0012	EA	Power Factor Correction Capacitors, 50.0 KVAR.....	5,445.10	
26 35 33 00-0013	EA	Power Factor Correction Capacitors, 75.0 KVAR.....	8,187.23	
26 35 33 00-0014	EA	Power Factor Correction Capacitors, 100.0 KVAR.....	10,917.12	
26 35 33 00-0015	EA	Power Factor Correction Capacitors, Fuse Kit.....	506.58	

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 35 Power Filters And Conditioners**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**26 35 43 Static-Frequency Converters (26 35)****26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)**

26 35 43 00-0002	EA	750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure	439.27	91.50
26 35 43 00-0003	EA	2 KW Output Rotary Phase Converter With NEMA 1 Enclosure	748.34	109.79
26 35 43 00-0004	EA	3 KW Output Rotary Phase Converter With NEMA 1 Enclosure	860.32	146.40
26 35 43 00-0005	EA	5 KW Output Rotary Phase Converter With NEMA 1 Enclosure	1,175.89	182.99
26 35 43 00-0006	EA	7 KW Output Rotary Phase Converter With NEMA 1 Enclosure	1,612.38	237.89
26 35 43 00-0007	EA	11 KW Output Rotary Phase Converter With NEMA 1 Enclosure	2,076.09	292.79
26 35 43 00-0008	EA	15 KW Output Rotary Phase Converter With NEMA 1 Enclosure	2,594.25	347.68
26 35 43 00-0009	EA	21 KW Output Rotary Phase Converter With NEMA 1 Enclosure	3,148.55	393.44
26 35 43 00-0010	EA	29 KW Output Rotary Phase Converter With NEMA 1 Enclosure	3,667.15	475.78
26 35 43 00-0011	EA	36 KW Output Rotary Phase Converter With NEMA 1 Enclosure	4,194.46	535.26
26 35 43 00-0012	EA	44 KW Output Rotary Phase Converter With NEMA 1 Enclosure	4,721.76	594.73
26 35 43 00-0013	EA	55 KW Output Rotary Phase Converter With NEMA 1 Enclosure	5,853.58	718.25
26 35 43 00-0014	EA	74 KW Output Rotary Phase Converter With NEMA 1 Enclosure	7,575.64	864.64
26 35 43 00-0015	EA	87 KW Output Rotary Phase Converter With NEMA 1 Enclosure	9,584.21	1,052.21
26 35 43 00-0016	EA	110 KW Output Rotary Phase Converter With NEMA 1 Enclosure	10,975.56	1,230.62
26 35 43 00-0017	EA	125 KW Output Rotary Phase Converter With NEMA 1 Enclosure	14,036.05	1,372.45
26 35 43 00-0018	EA	165 KW Output Rotary Phase Converter With NEMA 1 Enclosure	21,208.06	1,555.44
26 35 43 00-0019	EA	220 KW Output Rotary Phase Converter With NEMA 1 Enclosure	31,374.69	1,738.43

26 35 53 Voltage Regulators (26 35)**26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)**

Note: For diesel motor generator sets mounted in switchgear cabinet.

26 35 53 00-0002	EA	50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	4,759.24	1,454.80
26 35 53 00-0003	EA	75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	5,516.29	1,829.93
26 35 53 00-0004	EA	100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	6,213.41	2,177.61

26 36 Transfer Switches (26 30)**26 36 13 Manual Transfer Switches (26 36)****26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)**

26 36 13 00-0002	EA	30 Amp Manual Transfer Switch, Fused, 3 Pole, 480 Volt	1,196.88	160.11
26 36 13 00-0003	EA	60 Amp Manual Transfer Switch, Fused, 3 Pole, 480 Volt	1,388.14	198.91

26 36 23 Automatic Transfer Switches (26 36)**26 36 23 00-0001 Automatic Transfer Switch (26 36 23)****26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)**

Note: Programmable, 120/240 volt single phase, 3 wire.

26 36 23 00-0003	EA	100 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	2,011.12	328.61
26 36 23 00-0004	EA	225 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	2,728.69	422.51
26 36 23 00-0005	EA	400 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	4,305.38	563.35
26 36 23 00-0006	EA	600 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	9,649.45	704.18

26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)

26 36 23 00-0008	EA	40 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40)	3,227.64	234.72
		For NEMA 3R Enclosure, Add	676.16	
		For NEMA 4 Enclosure, Add	715.93	
		For NEMA 12 Enclosure, Add	715.93	
26 36 23 00-0009	EA	70 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70)	3,729.19	281.67
		For NEMA 3R Enclosure, Add	676.16	
		For NEMA 4 Enclosure, Add	715.93	
		For NEMA 12 Enclosure, Add	715.93	
26 36 23 00-0010	EA	125 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125)	4,104.59	328.61
		For NEMA 3R Enclosure, Add	676.16	
		For NEMA 4 Enclosure, Add	715.93	
		For NEMA 12 Enclosure, Add	715.93	
26 36 23 00-0011	EA	150 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150)	4,878.91	375.56
		For NEMA 3R Enclosure, Add	795.48	
		For NEMA 4 Enclosure, Add	1,034.12	
		For NEMA 12 Enclosure, Add	715.93	
26 36 23 00-0012	EA	225 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225)	5,569.36	422.51
		For NEMA 3R Enclosure, Add	795.48	
		For NEMA 4 Enclosure, Add	1,034.12	
		For NEMA 12 Enclosure, Add	715.93	
26 36 23 00-0013	EA	260 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260)	6,146.77	469.46
		For NEMA 3R Enclosure, Add	795.48	
		For NEMA 4 Enclosure, Add	1,034.12	
		For NEMA 12 Enclosure, Add	715.93	



Electrical			26	26
Facility Electrical Power Generating And Storing Equipment			26 30	
Transfer Switches			26 36	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
26 36 23 00-0014	EA	300 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300)	6,429.54	516.40
		For NEMA 3R Enclosure, Add	938.66	
		For NEMA 4 Enclosure, Add	1,113.67	
		For NEMA 12 Enclosure, Add	795.48	
26 36 23 00-0015	EA	400 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400)	7,265.84	563.35
		For NEMA 3R Enclosure, Add	938.66	
		For NEMA 4 Enclosure, Add	1,113.67	
		For NEMA 12 Enclosure, Add	795.48	
26 36 23 00-0016	EA	600 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600)	9,939.59	704.18
		For NEMA 3R Enclosure, Add	938.66	
		For NEMA 4 Enclosure, Add	1,113.67	
		For NEMA 12 Enclosure, Add	795.48	
26 36 23 00-0017	EA	800 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800)	11,161.31	845.02
		For NEMA 3R Enclosure, Add	1,153.44	
		For NEMA 4 Enclosure, Add	1,272.77	
		For NEMA 12 Enclosure, Add	1,113.67	
26 36 23 00-0018	EA	1,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000)	14,448.56	1,126.68
		For NEMA 3R Enclosure, Add	1,153.44	
		For NEMA 4 Enclosure, Add	1,272.77	
		For NEMA 12 Enclosure, Add	1,113.67	
26 36 23 00-0019	EA	1,200 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200)	18,714.44	1,220.58
		For NEMA 3R Enclosure, Add	2,545.52	
		For NEMA 4 Enclosure, Add	1,431.86	
		For NEMA 12 Enclosure, Add	1,193.22	
26 36 23 00-0020	EA	1,600 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600)	19,968.81	1,408.36
		For NEMA 3R Enclosure, Add	4,136.47	
		For NEMA 4 Enclosure, Add	5,091.03	
		For NEMA 12 Enclosure, Add	4,136.47	
26 36 23 00-0021	EA	2,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000)	22,829.65	1,596.14
		For NEMA 3R Enclosure, Add	4,136.47	
		For NEMA 4 Enclosure, Add	5,091.03	
		For NEMA 12 Enclosure, Add	4,136.47	
26 36 23 00-0022	EA	3,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000)	27,579.26	1,971.70
		For NEMA 3R Enclosure, Add	4,136.47	
26 36 23 00-0023	EA	4,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000)	47,702.49	2,347.27
		For NEMA 3R Enclosure, Add	19,441.37	
26 36 23 00-0024		Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure ^(26 36 23 00-0001)		
26 36 23 00-0025	EA	150 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150)	16,210.68	1,783.92
		For NEMA 3R Enclosure, Add	1,392.09	
		For NEMA 4 Enclosure, Add	1,431.86	
		For NEMA 12 Enclosure, Add	755.71	
26 36 23 00-0026	EA	225 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225)	16,925.15	1,877.81
		For NEMA 3R Enclosure, Add	1,392.09	
		For NEMA 4 Enclosure, Add	1,431.86	
		For NEMA 12 Enclosure, Add	755.71	
26 36 23 00-0027	EA	260 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260)	17,743.08	1,971.70
		For NEMA 3R Enclosure, Add	1,392.09	
		For NEMA 4 Enclosure, Add	1,431.86	
		For NEMA 12 Enclosure, Add	755.71	
26 36 23 00-0028	EA	300 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300)	19,768.69	2,018.66
		For NEMA 3R Enclosure, Add	1,392.09	
		For NEMA 4 Enclosure, Add	1,431.86	
		For NEMA 12 Enclosure, Add	755.71	
26 36 23 00-0029	EA	400 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400)	22,765.97	2,065.60
		For NEMA 3R Enclosure, Add	1,392.09	
		For NEMA 4 Enclosure, Add	1,431.86	
		For NEMA 12 Enclosure, Add	755.71	
26 36 23 00-0030	EA	600 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600)	27,274.60	2,159.49
		For NEMA 3R Enclosure, Add	1,392.09	
		For NEMA 4 Enclosure, Add	1,431.86	
		For NEMA 12 Enclosure, Add	795.48	
26 36 23 00-0031	EA	800 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800)	30,043.70	2,253.38
		For NEMA 3R Enclosure, Add	1,431.86	
		For NEMA 4 Enclosure, Add	1,431.86	
		For NEMA 12 Enclosure, Add	875.03	
26 36 23 00-0032	EA	1,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000)	37,711.79	2,628.94
		For NEMA 3R Enclosure, Add	1,431.86	
		For NEMA 4 Enclosure, Add	1,431.86	
		For NEMA 12 Enclosure, Add	875.03	
26 36 23 00-0033	EA	1,200 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200)	49,080.52	2,816.73
		For NEMA 3R Enclosure, Add	6,363.79	
		For NEMA 4 Enclosure, Add	7,954.73	
		For NEMA 12 Enclosure, Add	6,363.79	
26 36 23 00-0034	EA	1,600 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600)	63,963.76	3,004.51
		For NEMA 3R Enclosure, Add	13,523.04	
		For NEMA 4 Enclosure, Add	13,523.04	
		For NEMA 12 Enclosure, Add	12,600.30	
26 36 23 00-0035	EA	2,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000)	72,615.63	3,286.18
		For NEMA 3R Enclosure, Add	13,523.04	
		For NEMA 4 Enclosure, Add	13,523.04	
		For NEMA 12 Enclosure, Add	12,600.30	

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0036	EA	3,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	115,983.46		3,755.63
		For NEMA 3R Enclosure, Add	16,704.93		
26 36 23 00-0037	EA	4,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	125,209.34		4,225.08
		For NEMA 3R Enclosure, Add	16,704.93		
26 36 23 00-0038 Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)					
26 36 23 00-0039	EA	40 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	5,234.64		234.72
		For NEMA 3R Enclosure, Add	397.74		
		For NEMA 12 Enclosure, Add	715.93		
26 36 23 00-0040	EA	70 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	5,666.92		281.67
		For NEMA 3R Enclosure, Add	397.74		
		For NEMA 12 Enclosure, Add	715.93		
26 36 23 00-0041	EA	125 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	6,098.47		328.61
		For NEMA 3R Enclosure, Add	397.74		
		For NEMA 12 Enclosure, Add	715.93		
26 36 23 00-0042	EA	150 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	7,319.84		375.56
		For Four Pole Circuit Breaker, Add	1,988.68		
		For NEMA 3R Enclosure, Add	397.74		
		For NEMA 12 Enclosure, Add	715.93		
26 36 23 00-0043	EA	225 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	9,517.00		422.51
		For Four Pole Circuit Breaker, Add	1,988.68		
		For NEMA 3R Enclosure, Add	397.74		
		For NEMA 12 Enclosure, Add	715.93		
26 36 23 00-0044	EA	250 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	10,136.71		469.46
		For Four Pole Circuit Breaker, Add	1,988.68		
		For NEMA 3R Enclosure, Add	397.74		
		For NEMA 12 Enclosure, Add	715.93		
26 36 23 00-0045	EA	300 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	10,547.84		516.40
		For Four Pole Circuit Breaker, Add	2,704.61		
		For NEMA 3R Enclosure, Add	1,034.12		
		For NEMA 12 Enclosure, Add	795.48		
26 36 23 00-0046	EA	400 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	11,931.83		563.35
		For Four Pole Circuit Breaker, Add	2,704.61		
		For NEMA 3R Enclosure, Add	1,034.12		
		For NEMA 12 Enclosure, Add	795.48		
26 36 23 00-0047	EA	600 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	14,482.34		704.18
		For Four Pole Circuit Breaker, Add	2,704.61		
		For NEMA 3R Enclosure, Add	1,034.12		
		For NEMA 12 Enclosure, Add	795.48		
26 36 23 00-0048	EA	800 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	15,111.14		845.02
		For Four Pole Circuit Breaker, Add	3,858.05		
		For NEMA 3R Enclosure, Add	1,781.87		
		For NEMA 12 Enclosure, Add	1,113.67		
26 36 23 00-0049	EA	1,000 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	17,861.63		1,126.68
		For Four Pole Circuit Breaker, Add	3,858.05		
		For NEMA 3R Enclosure, Add	1,781.87		
		For NEMA 12 Enclosure, Add	1,113.67		
26 36 23 00-0050 Accessories (26 36 23)					
26 36 23 00-0051	EA	Auxiliary Contacts For Automatic Transfer Switch.....	184.55		
26 36 23 00-0052	EA	Battery Charger For Automatic Transfer Switch.....	1,511.41		
26 36 23 00-0053	EA	Elevator Relay Signal For Automatic Transfer Switch.....	548.88		
26 36 33 Non-Automatic Transfer Switches (26 36)					
26 36 33 00-0001 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 33)					
26 36 33 00-0002	EA	40 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....	2,187.67		234.72
		For NEMA 3R Enclosure, Add	676.16		
		For NEMA 12 Enclosure, Add	636.38		
26 36 33 00-0003	EA	70 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....	2,430.34		281.67
		For NEMA 3R Enclosure, Add	676.16		
		For NEMA 12 Enclosure, Add	636.38		
26 36 33 00-0004	EA	125 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....	2,761.24		328.61
		For NEMA 3R Enclosure, Add	676.16		
		For NEMA 12 Enclosure, Add	636.38		
26 36 33 00-0005	EA	150 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....	2,594.55		375.56
		For NEMA 3R Enclosure, Add	795.48		
		For NEMA 12 Enclosure, Add	636.38		



Electrical		26
Facility Electrical Power Generating And Storing Equipment		26 30
Transfer Switches		26 36

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 33 00-0006 EA 225 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....	4,218.71	422.51
For NEMA 3R Enclosure, Add	795.48	
For NEMA 12 Enclosure, Add	636.38	
26 36 33 00-0007 EA 260 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....	4,741.42	469.46
For NEMA 3R Enclosure, Add	795.48	
For NEMA 12 Enclosure, Add	636.38	
26 36 33 00-0008 EA 300 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....	5,272.16	516.40
For NEMA 3R Enclosure, Add	938.66	
For NEMA 12 Enclosure, Add	795.48	
26 36 33 00-0009 EA 400 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....	6,177.01	563.35
For NEMA 3R Enclosure, Add	938.66	
For NEMA 12 Enclosure, Add	795.48	
26 36 33 00-0010 EA 600 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	8,157.21	704.18
For NEMA 3R Enclosure, Add	938.66	
For NEMA 12 Enclosure, Add	795.48	
26 36 33 00-0011 EA 800 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	9,192.96	845.02
For NEMA 3R Enclosure, Add	1,153.44	
For NEMA 12 Enclosure, Add	1,113.67	
26 36 33 00-0012 EA 1,000 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	12,147.66	1,126.68
For NEMA 3R Enclosure, Add	1,153.44	
For NEMA 12 Enclosure, Add	1,113.67	

26 40 Electrical And Cathodic Protection ⁽²⁶⁾

26 43 Surge Protective Devices ^(26 40)

26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits ^(26 43)

26 43 13 00-0001 25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression ^(26 43 13)

Note: Liebert LPL

26 43 13 00-0002 EA 120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	213.36	22.88
26 43 13 00-0003 EA 208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	230.37	22.88
26 43 13 00-0004 EA 240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	239.52	27.45
26 43 13 00-0005 EA 277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	199.35	18.30
26 43 13 00-0006 EA 480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	239.52	27.45

26 43 13 00-0007 50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression ^(26 43 13)

Note: Liebert LPL

26 43 13 00-0008 EA 120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	297.17	22.88
26 43 13 00-0009 EA 208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	316.04	27.45
26 43 13 00-0010 EA 208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	306.89	22.88
26 43 13 00-0011 EA 480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	316.04	27.45

26 43 13 00-0012 100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression ^(26 43 13)

Note: Liebert LPL

26 43 13 00-0013 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	360.33	22.88
26 43 13 00-0014 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	379.20	27.45
26 43 13 00-0015 EA 277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	336.60	18.30
26 43 13 00-0016 EA 480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	379.20	27.45

26 43 13 00-0017 100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression ^(26 43 13)

Note: Liebert LPM

26 43 13 00-0018 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	425.92	22.88
26 43 13 00-0019 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	480.01	27.45
26 43 13 00-0020 EA 277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	403.40	18.30

26 43 13 00-0021 160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression ^(26 43 13)

Note: Liebert LPM

26 43 13 00-0022 EA 208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	753.30	27.45
26 43 13 00-0023 EA 208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	744.15	22.88
26 43 13 00-0024 EA 480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	753.30	27.45

26 43 13 00-0025 250 kA, 500 Joule Transient Voltage Surge Suppression ^(26 43 13)

Note: Liebert Interceptor Hybrid.

26 43 13 00-0026 EA LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	4,377.00	45.75
26 43 13 00-0027 EA Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor	5,348.68	45.75

26 43 13 00-0028 Class 1310 Transient Voltage Surge Suppression ^(26 43 13)

Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.

26 43 13 00-0029 NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ^(26 43 13 00-0028)

Note: Square D. EMA series.

26 43 13 00-0030 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,521.75	118.94
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	

26 Electrical**26 40 Electrical And Cathodic Protection****26 43 Surge Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0031	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,883.38	137.25
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0032	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,679.97	160.11
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0033	EA	320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,560.99	182.99
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0034	EA	480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,191.25	251.62
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0035	EA	120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,675.61	118.94
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0036	EA	160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,052.39	137.25
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0037	EA	240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,941.08	160.11
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0038	EA	320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,900.11	182.99
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0039	EA	480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,714.55	251.62
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0040	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,675.61	118.94
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0041	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,052.39	137.25
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0042	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,941.03	160.11
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0043	EA	320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,900.11	182.99
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0044	EA	480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,714.55	251.62
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0045	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,829.47	118.94
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0046	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,223.58	137.25
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0047	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,204.35	160.11
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0048	EA	320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,241.45	182.99
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0049	EA	480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	12,239.97	251.62
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0050	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,008.23	118.94
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0051	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,401.30	137.25
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0052	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,479.54	160.11
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0053	EA	320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,598.98	182.99
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0054	EA	480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	12,046.55	251.62
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0055		NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor ⁽²⁶		
		^{43 13 00-0028)}		
		Note: Square D EBA series.		
26 43 13 00-0056	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,741.71	118.94
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0057	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,313.54	137.25
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0058	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,863.08	160.11
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	



Electrical		26	26
Electrical And Cathodic Protection		26 40	
Surge Protective Devices		26 43	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0059	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 2,829.46	118.94	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0060	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 3,443.55	137.25	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0061	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 5,033.17	160.11	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0062	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 2,829.46	118.94	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0063	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 3,443.55	137.25	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0064	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 5,033.17	160.11	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0065	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 2,941.06	118.94	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0066	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 3,583.32	137.25	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0067	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 5,250.94	160.11	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0068	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 3,058.08	118.94	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0069	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 3,731.74	137.25	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0070	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	 5,479.54	160.11	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0071 NEMA 4X Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028)					
Note: Square D EMA series. Stainless steel.					
26 43 13 00-0072	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 4,545.59	118.94	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0073	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 4,907.22	137.25	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0074	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 6,703.80	160.11	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0075	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 4,699.44	118.94	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0076	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 5,076.23	137.25	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0077	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 6,964.92	160.11	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0078	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 4,699.44	118.94	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0079	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 5,076.23	137.25	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0080	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 6,964.87	160.11	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0081	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 4,853.30	118.94	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0082	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 5,247.41	137.25	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0083	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 7,228.18	160.11	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0084	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 5,032.07	118.94	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0085	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 5,425.14	137.25	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0086	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	 7,503.38	160.11	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		

26 Electrical**26 40 Electrical And Cathodic Protection****26 43 Surge Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028) Note: Square D EBA series. Stainless steel.		
26 43 13 00-0088 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	3,765.54	118.94
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0089 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	4,337.38	137.25
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0090 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	5,886.91	160.11
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0091 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	3,853.30	118.94
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0092 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	4,467.39	137.25
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0093 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	6,057.01	160.11
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0094 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	3,853.30	118.94
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0095 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	4,467.39	137.25
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0096 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	6,057.01	160.11
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0097 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	3,964.90	118.94
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	4,607.15	137.25
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	6,274.77	160.11
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	4,081.91	118.94
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	4,755.58	137.25
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	6,503.37	160.11
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	

26 50 Lighting (26)

Note: Light fixtures include testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 52 Safety Lighting (26 50)**26 52 00 00-0001 Commercial Emergency Lights** (26 52)**26 52 00 00-0002 Polycarbonate Housing, Commercial Emergency Lights** (26 52 00 00-0001)

Note: Includes lead-calcium batteries and two adjustable lamp heads.

26 52 00 00-0003 EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED)	147.62	22.88
26 52 00 00-0004 EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2)	104.80	22.88
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 00 00-0005 EA 18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618)	160.83	22.88
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 00 00-0006 EA 27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627)	186.20	22.88
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 00 00-0007 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654)	273.37	22.88
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 00 00-0008 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254)	308.75	22.88
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	



Electrical		26	26
Lighting		26 50	
Safety Lighting		26 52	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 00 00-0009	EA	72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272) <i>For Halogen Lamps, Add</i> <i>For Self-Diagnostics, Add</i>	446.61 27.55 87.50	22.88
26 52 00 00-0010		Remote Heads For Commercial Emergency Lights (26 52 00 00-0001) Note: For use with fixtures that have remote capability.		
26 52 00 00-0011	EA	6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606).....	99.22	13.73
26 52 00 00-0012	EA	6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606).....	99.86	13.73
26 52 00 00-0013	EA	8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806).....	102.00	13.73
26 52 00 00-0014	EA	12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212).....	101.65	13.73
26 52 00 00-0015	EA	12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212).....	88.51	13.73
26 52 00 00-0016	EA	12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	62.42	13.73
26 52 00 00-0017		Industrial Emergency Lights (26 52)		
26 52 00 00-0018		Painted Steel Housing, Industrial Emergency Lights (26 52 00 00-0017)		
26 52 00 00-0019		Painted Steel Housing, Industrial Emergency Lights (26 52 00 00-0018) Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 00 00-0020	EA	16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16)..... <i>For Wireguard, Add</i>	254.11 125.37	22.88
26 52 00 00-0021	EA	24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24)..... <i>For Wireguard, Add</i>	214.53 125.37	22.88
26 52 00 00-0022	EA	36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36)..... <i>For Wireguard, Add</i>	330.23 125.37	22.88
26 52 00 00-0023	EA	50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50)..... <i>For Wireguard, Add</i>	350.19 125.37	22.88
26 52 00 00-0024	EA	125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125)..... <i>For Wireguard, Add</i>	496.63 133.53	22.88
26 52 00 00-0025	EA	275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275)..... <i>For Wireguard, Add</i>	776.76 133.53	22.88
26 52 00 00-0026		Remote Heads For Painted Steel Housing, Industrial Emergency Lights (26 52 00 00-0019) Note: For use with fixtures that have remote capability.		
26 52 00 00-0027	EA	8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806)..... <i>For Wireguard, Add</i>	77.46 101.17	13.73
26 52 00 00-0028	EA	12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206)..... <i>For Wireguard, Add</i>	79.95 101.17	13.73
26 52 00 00-0029	EA	8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812)..... <i>For Wireguard, Add</i>	77.80 101.17	13.73
26 52 00 00-0030	EA	12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212)..... <i>For Wireguard, Add</i>	78.21 101.17	13.73
26 52 00 00-0031	EA	12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512)..... <i>For Wireguard, Add</i>	79.95 101.17	13.73
26 52 00 00-0032	EA	12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512)..... <i>For Wireguard, Add</i>	92.56 101.17	13.73
26 52 00 00-0033		Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 00 00-0017)		
26 52 00 00-0034		Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 00 00-0033) Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 00 00-0035	EA	18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618)..... <i>For Wireguard, Add</i> <i>For Self-Diagnostics, Add</i>	250.93 121.89 105.50	22.88
26 52 00 00-0036	EA	36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236)..... <i>For Wireguard, Add</i> <i>For Self-Diagnostics, Add</i>	272.06 121.89 105.50	22.88
26 52 00 00-0037	EA	54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654)..... <i>For Wireguard, Add</i> <i>For Self-Diagnostics, Add</i>	266.27 121.89 105.50	22.88

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 00 00-0038	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	281.03	22.88
		<i>For Wireguard, Add</i>	121.89	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 00 00-0039	EA	100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	467.98	22.88
		<i>For Wireguard, Add</i>	121.89	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 00 00-0040	EA	18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618)	369.29	22.88
		<i>For Wireguard, Add</i>	121.89	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 00 00-0041	EA	36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236).....	412.70	22.88
		<i>For Wireguard, Add</i>	121.89	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 00 00-0042	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254).....	434.70	22.88
		<i>For Wireguard, Add</i>	121.89	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 00 00-0043 Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 00 00-0033)				
Note: For use with fixtures that have remote capability.				
26 52 00 00-0044	EA	9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....	67.91	13.73
26 52 00 00-0045	EA	12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....	72.94	13.73
26 52 00 00-0046	EA	9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912)	67.97	13.73
26 52 00 00-0047	EA	12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....	71.67	13.73
26 52 00 00-0048	EA	12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....	62.15	13.73
26 52 00 00-0049 Outdoor Emergency Lights (26 52)				
26 52 00 00-0050 Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights (26 52 00 00-0049)				
Note: Includes nickel-cadmium batteries.				
26 52 00 00-0051	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series).....	390.42	22.88
26 52 00 00-0052	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....	464.22	22.88
26 52 00 00-0053 Recessed Emergency Lights (26 52)				
26 52 00 00-0054	EA	10 Watts At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG)	424.11	22.88
		<i>For Wire Guard, Add</i>	60.00	
26 52 00 00-0055	EA	16 Watts At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....	346.30	45.75
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
		<i>For Wireguard, Add</i>	133.53	
26 52 00 00-0056	EA	50 Watts At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4).....	489.32	45.75
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
		<i>For Wireguard, Add</i>	133.53	
26 52 00 00-0057 Square Wraparound Emergency Lights (26 52)				
26 52 00 00-0058	EA	10 Watts At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ)	198.53	22.88
26 53 Exit Signs (26 50)				
Note: Excludes pendants.				
26 53 00 00-0001 LED Exit Signs (26 53)				
Note: Includes red LED lamps.				
26 53 00 00-0002	EA	Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM).....	125.50	33.44
		<i>For Green LED Lamps, Add</i>	15.00	
26 53 00 00-0003	EA	Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM)	125.50	33.44
		<i>For Green LED Lamps, Add</i>	15.00	
26 53 00 00-0004	EA	Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	169.33	33.44
		<i>For Green LED Lamps, Add</i>	15.00	
		<i>For Self-Diagnostics, Add</i>	50.00	
26 53 00 00-0005	EA	Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN)	169.33	33.44
		<i>For Green LED Lamps, Add</i>	15.00	
		<i>For Self-Diagnostics, Add</i>	50.00	
26 53 00 00-0006	EA	Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC).....	185.00	33.44
		<i>For Green LED Lamps, Add</i>	15.00	



Electrical		26
Lighting		26 50
Exit Signs		26 53

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 53 00 00-0007 EA Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC) For Green LED Lamps, Add	207.85 15.00	33.44
26 53 00 00-0008 EA Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN)..... For Green LED Lamps, Add For Self-Diagnostics, Add	175.45 15.00 50.00	33.44
26 53 00 00-0009 EA Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN) For Green LED Lamps, Add For Self-Diagnostics, Add	192.03 15.00 50.00	33.44
26 53 00 00-0010 EA Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM) Note: Includes two circular side mounted krypton emergency lights. For Green LED Lamps, Add	224.64 15.00	33.44
26 53 00 00-0011 EA Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM LED) Note: Includes two circular side mounted LED emergency lights. For Green LED Lamps, Add	321.82 15.00	33.44
26 53 00 00-0012 EA Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH) Note: Includes two rectangular front mounted high intensity tungsten emergency lights. For Green LED Lamps, Add	276.52 15.00	33.44
26 53 00 00-0013 EA Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM)..... Note: Includes two circular side mounted PAR 36 emergency lights. For Green LED Lamps, Add	288.56 15.00	33.44
26 53 00 00-0014 Edge-Lit LED Exit Signs (26 53) Note: Includes red LED lamps.		
26 53 00 00-0015 EA Single Face, Edge-Lit LED Exit Sign For Green LED Lamps, Add	252.01 40.00	33.44
26 53 00 00-0016 EA Double Face, Edge-Lit LED Exit Sign For Green LED Lamps, Add	269.42 40.00	33.44
26 53 00 00-0017 EA Single Face, Edge-Lit LED Exit Sign With Battery Back-Up For Green LED Lamps, Add For Self-Diagnostics, Add	305.77 40.00 50.00	33.44
26 53 00 00-0018 EA Double Face, Edge-Lit LED Exit Sign With Battery Back-Up..... For Green LED Lamps, Add For Self-Diagnostics, Add	318.60 40.00 50.00	33.44
26 53 00 00-0019 Self-Luminous Tritium Exit Signs (26 53) Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.		
26 53 00 00-0020 EA 10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	337.76	33.44
26 53 00 00-0021 EA 10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	608.35	33.44
26 53 00 00-0022 EA 20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	399.40	33.44
26 53 00 00-0023 EA 20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	657.83	33.44
26 53 00 00-0024 EA 10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	368.44	33.44
26 53 00 00-0025 EA 10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	657.83	33.44
26 53 00 00-0026 EA 20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	448.60	33.44
26 53 00 00-0027 EA 20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	812.95	33.44
26 53 00 00-0028 Vandal-Resistant LED Exit Signs (26 53) Note: Includes red LED lamps.		
26 53 00 00-0029 EA Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign.....	319.53	33.44
26 53 00 00-0030 EA Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup	487.09	33.44
26 53 00 00-0031 EA Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup.....	589.83	33.44
26 53 00 00-0032 Remove And Reinstall Exit Light Fixture (26 53)		
26 53 00 00-0033 EA Removal And Reinstall Of Exit Light Fixtures Note: Includes storage and cleaning.	68.62	
26 53 00 00-0034 Exit Sign Accessories (26 53)		
26 53 00 00-0035 EA Polycarbonate Vandal Shield For Exit Signs.....	76.19	9.16
26 53 00 00-0036 EA Wire Guard For Exit Signs Or Emergency Lights.....	46.27	9.16
26 53 00 00-0037 EA Replacement Battery For Exit Signs.....	77.25	11.45
26 55 Special Purpose Lighting (26 55)		
26 55 68 Athletic Field Lighting (26 55)		
26 55 68 00-0001 Sports Lighting System (26 55 68) Note: Musco.		
26 55 68 00-0002 Round Steel Tapered Poles (26 55 68 00-0001) Note: With Internal wiring harness.		
26 55 68 00-0003 EA 20' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	2,494.26	487.27
26 55 68 00-0004 EA 25' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	3,002.41	588.78
26 55 68 00-0005 EA 30' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	3,373.61	639.54
26 55 68 00-0006 EA 35' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	3,674.37	664.92

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 68 00-0007 EA 40' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,547.97	690.30
26 55 68 00-0008 EA 45' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,241.02	842.58
26 55 68 00-0009 EA 50' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,627.00	893.34
26 55 68 00-0010 EA 55' Steel Tapered Pole With Precast Concrete Foundation Sleeve	6,392.16	1,015.15
26 55 68 00-0011 EA 60' Steel Tapered Pole With Precast Concrete Foundation Sleeve	7,252.82	1,142.04
26 55 68 00-0012 EA 65' Steel Tapered Pole With Precast Concrete Foundation Sleeve	8,015.38	1,257.81
26 55 68 00-0013 EA 70' Steel Tapered Pole With Precast Concrete Foundation Sleeve	8,757.00	1,405.79
26 55 68 00-0014 EA 75' Steel Tapered Pole With Precast Concrete Foundation Sleeve	9,566.91	1,578.43
26 55 68 00-0015 EA 80' Steel Tapered Pole With Precast Concrete Foundation Sleeve	10,786.55	1,899.05
26 55 68 00-0016 Steel Pole Brackets (26 55 68 00-0001)		
26 55 68 00-0017 EA Two Light Bracket	365.87	50.76
26 55 68 00-0018 EA Three Light Bracket.....	461.57	71.06
26 55 68 00-0019 EA Four Light Bracket.....	661.37	86.29
26 55 68 00-0020 EA Five Light Bracket	755.05	101.51
26 55 68 00-0021 EA Six Light Bracket	914.39	116.75
26 55 68 00-0022 EA Seven Light Bracket.....	1,046.93	131.97
26 55 68 00-0023 EA Eight Light Bracket.....	1,196.27	152.27
26 55 68 00-0024 EA Nine Light Bracket.....	1,350.70	167.50
26 55 68 00-0025 Light Fixtures (26 55 68 00-0001)		
26 55 68 00-0026 EA 120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug.....	1,590.57	
For 1,500 Watt Metal Halide Lamp, Add	8.32	
26 55 68 00-0027 Electrical Component Enclosure (26 55 68 00-0001)		
Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
26 55 68 00-0028 EA Electrical Component Enclosure For 2 Lights, Pole Mounted	588.55	59.47
26 55 68 00-0029 EA Electrical Component Enclosure For 3 Lights, Pole Mounted	884.28	91.50
26 55 68 00-0030 EA Electrical Component Enclosure For 4 Lights, Pole Mounted	1,013.61	114.37
26 55 68 00-0031 EA Electrical Component Enclosure For 5 Lights, Pole Mounted	1,308.13	128.10
26 55 68 00-0032 EA Electrical Component Enclosure For 6 Lights, Pole Mounted	1,468.76	137.25
26 55 68 00-0033 Accessories (26 55 68 00-0001)		
26 55 68 00-0034 EA Time Delay Kit (Musco®)	659.63	183.27
26 55 68 00-0035 EA Remote Switch Box Push Button (Musco®).....	1,245.83	183.27
26 55 68 00-0036 EA Push Button Strobe Kit (Musco®).....	1,480.31	183.27
26 55 68 00-0037 EA Additional Control-Link Unit (Musco®).....	6,961.58	549.81
26 55 68 00-0038 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®)	769.19	91.50
26 55 68 00-0039 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®)	952.18	182.99
26 56 Exterior Lighting (26 50)		
26 56 13 Lighting Poles And Standards (26 56)		
26 56 13 00-0001 Poles And Standards (26 56 13)		
See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole, 26 56 19 00-0000 for street light fixtures.		
26 56 13 00-0002 Roadway Light Poles (26 56 13 00-0001)		
Note: Excludes lighting fixtures.		
26 56 13 00-0003 Steel Roadway Light Poles (26 56 13 00-0002)		
Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0004 Round Tapered, Steel Roadway Light Poles (26 56 13 00-0003)		
26 56 13 00-0005 Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0004)		
26 56 13 00-0006 Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0005)		
26 56 13 00-0007 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,170.60	304.54
For Galvanized Finish, Add	76.85	
For >10 To 20, Deduct	-79.27	
For >20 To 40, Deduct	-158.53	
For >40, Deduct	-253.02	
26 56 13 00-0008 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,176.93	304.54
For Galvanized Finish, Add	77.04	
For >10 To 20, Deduct	-79.42	
For >20 To 40, Deduct	-158.85	
For >40, Deduct	-253.50	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0009	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,417.47	406.06
		For Galvanized Finish, Add	78.16	
		For >10 To 20, Deduct	-85.44	
		For >20 To 40, Deduct	-170.87	
		For >40, Deduct	-276.61	
26 56 13 00-0010	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,493.60	406.06
		For Galvanized Finish, Add	80.44	
		For >10 To 20, Deduct	-87.34	
		For >20 To 40, Deduct	-174.68	
		For >40, Deduct	-282.32	
26 56 13 00-0011	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,569.72	406.06
		For Galvanized Finish, Add	82.73	
		For >10 To 20, Deduct	-89.24	
		For >20 To 40, Deduct	-178.49	
		For >40, Deduct	-288.03	
26 56 13 00-0012	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,687.29	456.81
		For Galvanized Finish, Add	83.21	
		For >10 To 20, Deduct	-92.18	
		For >20 To 40, Deduct	-184.36	
		For >40, Deduct	-299.39	
26 56 13 00-0013	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,723.39	456.81
		For Galvanized Finish, Add	84.29	
		For >10 To 20, Deduct	-93.08	
		For >20 To 40, Deduct	-186.17	
		For >40, Deduct	-302.10	
26 56 13 00-0014	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,730.26	456.81
		For Galvanized Finish, Add	84.50	
		For >10 To 20, Deduct	-93.26	
		For >20 To 40, Deduct	-186.51	
		For >40, Deduct	-302.61	
26 56 13 00-0015	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,909.17	482.20
		For Galvanized Finish, Add	88.34	
		For >10 To 20, Deduct	-97.73	
		For >20 To 40, Deduct	-195.46	
		For >40, Deduct	-317.30	
26 56 13 00-0016	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,936.44	482.20
		For Galvanized Finish, Add	89.16	
		For >10 To 20, Deduct	-98.41	
		For >20 To 40, Deduct	-196.82	
		For >40, Deduct	-319.34	
26 56 13 00-0017	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,966.21	482.20
		For Galvanized Finish, Add	90.05	
		For >10 To 20, Deduct	-99.16	
		For >20 To 40, Deduct	-198.31	
		For >40, Deduct	-321.58	
26 56 13 00-0018	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,550.29	507.57
		For Galvanized Finish, Add	106.05	
		For >10 To 20, Deduct	-113.76	
		For >20 To 40, Deduct	-227.51	
		For >40, Deduct	-366.65	
26 56 13 00-0019	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,560.00	507.57
		For Galvanized Finish, Add	106.35	
		For >10 To 20, Deduct	-114.00	
		For >20 To 40, Deduct	-228.00	
		For >40, Deduct	-367.38	
26 56 13 00-0020	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,569.60	507.57
		For Galvanized Finish, Add	106.63	
		For >10 To 20, Deduct	-114.24	
		For >20 To 40, Deduct	-228.48	
		For >40, Deduct	-368.10	
26 56 13 00-0021		Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0005)		
26 56 13 00-0022	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,963.05	355.30
		For Galvanized Finish, Add	97.57	
		For >10 To 20, Deduct	-99.08	
		For >20 To 40, Deduct	-198.15	
		For >40, Deduct	-314.99	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0023	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,029.11	367.99
			For Galvanized Finish, Add	98.79	
			For >10 To 20, Deduct	-100.73	
			For >20 To 40, Deduct	-201.46	
			For >40, Deduct	-320.58	
26 56 13 00-0024	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,085.13	380.68
			For Galvanized Finish, Add	99.71	
			For >10 To 20, Deduct	-102.13	
			For >20 To 40, Deduct	-204.26	
			For >40, Deduct	-325.42	
26 56 13 00-0025	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,902.36	456.81
			For Galvanized Finish, Add	89.66	
			For >10 To 20, Deduct	-97.56	
			For >20 To 40, Deduct	-195.12	
			For >40, Deduct	-315.52	
26 56 13 00-0026	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,943.88	469.51
			For Galvanized Finish, Add	90.15	
			For >10 To 20, Deduct	-98.60	
			For >20 To 40, Deduct	-197.19	
			For >40, Deduct	-319.27	
26 56 13 00-0027	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,975.81	482.20
			For Galvanized Finish, Add	90.34	
			For >10 To 20, Deduct	-99.40	
			For >20 To 40, Deduct	-198.79	
			For >40, Deduct	-322.30	
26 56 13 00-0028	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,203.25	507.57
			For Galvanized Finish, Add	95.64	
			For >10 To 20, Deduct	-105.08	
			For >20 To 40, Deduct	-210.16	
			For >40, Deduct	-340.62	
26 56 13 00-0029	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,238.44	520.26
			For Galvanized Finish, Add	95.94	
			For >10 To 20, Deduct	-105.96	
			For >20 To 40, Deduct	-211.92	
			For >40, Deduct	-343.90	
26 56 13 00-0030	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,270.04	532.95
			For Galvanized Finish, Add	96.12	
			For >10 To 20, Deduct	-106.75	
			For >20 To 40, Deduct	-213.50	
			For >40, Deduct	-346.90	
26 56 13 00-0031	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,462.87	532.95
			For Galvanized Finish, Add	101.91	
			For >10 To 20, Deduct	-111.57	
			For >20 To 40, Deduct	-223.14	
			For >40, Deduct	-361.36	
26 56 13 00-0032	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,530.45	545.65
			For Galvanized Finish, Add	103.18	
			For >10 To 20, Deduct	-113.26	
			For >20 To 40, Deduct	-226.52	
			For >40, Deduct	-367.07	
26 56 13 00-0033	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,595.86	558.33
			For Galvanized Finish, Add	104.38	
			For >10 To 20, Deduct	-114.90	
			For >20 To 40, Deduct	-229.79	
			For >40, Deduct	-372.61	
26 56 13 00-0034	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	5,066.48	558.33
			For Galvanized Finish, Add	118.49	
			For >10 To 20, Deduct	-126.66	
			For >20 To 40, Deduct	-253.32	
			For >40, Deduct	-407.90	
26 56 13 00-0035	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,098.18	571.02
			For Galvanized Finish, Add	118.68	
			For >10 To 20, Deduct	-127.45	
			For >20 To 40, Deduct	-254.91	
			For >40, Deduct	-410.91	
26 56 13 00-0036	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,130.10	583.71
			For Galvanized Finish, Add	118.88	
			For >10 To 20, Deduct	-128.25	
			For >20 To 40, Deduct	-256.51	
			For >40, Deduct	-413.94	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0037			Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0005)		
26 56 13 00-0038	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,601.77	507.57
			For Galvanized Finish, Add	107.60	
			For >10 To 20, Deduct	-115.04	
			For >20 To 40, Deduct	-230.09	
			For >40, Deduct	-370.51	
26 56 13 00-0039	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,658.97	532.95
			For Galvanized Finish, Add	107.79	
			For >10 To 20, Deduct	-116.47	
			For >20 To 40, Deduct	-232.95	
			For >40, Deduct	-376.07	
26 56 13 00-0040	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,725.76	558.33
			For Galvanized Finish, Add	108.27	
			For >10 To 20, Deduct	-118.14	
			For >20 To 40, Deduct	-236.29	
			For >40, Deduct	-382.35	
26 56 13 00-0041	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,864.05	558.33
			For Galvanized Finish, Add	112.42	
			For >10 To 20, Deduct	-121.60	
			For >20 To 40, Deduct	-243.20	
			For >40, Deduct	-392.72	
26 56 13 00-0042	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,924.29	583.71
			For Galvanized Finish, Add	112.71	
			For >10 To 20, Deduct	-123.11	
			For >20 To 40, Deduct	-246.21	
			For >40, Deduct	-398.51	
26 56 13 00-0043	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,981.49	609.09
			For Galvanized Finish, Add	112.90	
			For >10 To 20, Deduct	-124.54	
			For >20 To 40, Deduct	-249.07	
			For >40, Deduct	-404.07	
26 56 13 00-0044	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,178.09	583.71
			For Galvanized Finish, Add	120.32	
			For >10 To 20, Deduct	-129.45	
			For >20 To 40, Deduct	-258.90	
			For >40, Deduct	-417.54	
26 56 13 00-0045	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,235.28	609.09
			For Galvanized Finish, Add	120.51	
			For >10 To 20, Deduct	-130.88	
			For >20 To 40, Deduct	-261.76	
			For >40, Deduct	-423.10	
26 56 13 00-0046	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,292.48	634.47
			For Galvanized Finish, Add	120.71	
			For >10 To 20, Deduct	-132.31	
			For >20 To 40, Deduct	-264.62	
			For >40, Deduct	-428.66	
26 56 13 00-0047	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,582.66	609.09
			For Galvanized Finish, Add	130.93	
			For >10 To 20, Deduct	-139.57	
			For >20 To 40, Deduct	-279.13	
			For >40, Deduct	-449.15	
26 56 13 00-0048	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,639.53	634.47
			For Galvanized Finish, Add	131.12	
			For >10 To 20, Deduct	-140.99	
			For >20 To 40, Deduct	-281.98	
			For >40, Deduct	-454.69	
26 56 13 00-0049	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,703.15	659.84
			For Galvanized Finish, Add	131.50	
			For >10 To 20, Deduct	-142.58	
			For >20 To 40, Deduct	-285.16	
			For >40, Deduct	-460.73	
26 56 13 00-0050			Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0005)		
26 56 13 00-0051	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,121.12	558.33
			For Galvanized Finish, Add	120.13	
			For >10 To 20, Deduct	-128.03	
			For >20 To 40, Deduct	-256.06	
			For >40, Deduct	-412.00	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0052	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,206.85	596.40
		For Galvanized Finish, Add	120.42	
		For >10 To 20, Deduct	-130.17	
		For >20 To 40, Deduct	-260.34	
		For >40, Deduct	-420.33	
26 56 13 00-0053	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,289.32	634.47
		For Galvanized Finish, Add	120.61	
		For >10 To 20, Deduct	-132.23	
		For >20 To 40, Deduct	-264.47	
		For >40, Deduct	-428.42	
26 56 13 00-0054	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,422.77	609.09
		For Galvanized Finish, Add	126.14	
		For >10 To 20, Deduct	-135.57	
		For >20 To 40, Deduct	-271.14	
		For >40, Deduct	-437.16	
26 56 13 00-0055	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,505.66	647.16
		For Galvanized Finish, Add	126.34	
		For >10 To 20, Deduct	-137.64	
		For >20 To 40, Deduct	-275.28	
		For >40, Deduct	-445.28	
26 56 13 00-0056	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,551.48	685.23
		For Galvanized Finish, Add	125.43	
		For >10 To 20, Deduct	-138.79	
		For >20 To 40, Deduct	-277.57	
		For >40, Deduct	-450.62	
26 56 13 00-0057	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,838.79	634.47
		For Galvanized Finish, Add	137.10	
		For >10 To 20, Deduct	-145.97	
		For >20 To 40, Deduct	-291.94	
		For >40, Deduct	-469.63	
26 56 13 00-0058	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,965.09	672.53
		For Galvanized Finish, Add	138.60	
		For >10 To 20, Deduct	-149.13	
		For >20 To 40, Deduct	-298.25	
		For >40, Deduct	-481.01	
26 56 13 00-0059	EA	35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,007.31	710.60
		For Galvanized Finish, Add	137.58	
		For >10 To 20, Deduct	-150.18	
		For >20 To 40, Deduct	-300.37	
		For >40, Deduct	-486.08	
26 56 13 00-0060	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	6,098.51	659.84
		For Galvanized Finish, Add	143.36	
		For >10 To 20, Deduct	-152.46	
		For >20 To 40, Deduct	-304.93	
		For >40, Deduct	-490.38	
26 56 13 00-0061	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,180.97	697.92
		For Galvanized Finish, Add	143.55	
		For >10 To 20, Deduct	-154.52	
		For >20 To 40, Deduct	-309.05	
		For >40, Deduct	-498.47	
26 56 13 00-0062	EA	40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,266.71	735.98
		For Galvanized Finish, Add	143.84	
		For >10 To 20, Deduct	-156.67	
		For >20 To 40, Deduct	-313.34	
		For >40, Deduct	-506.80	
26 56 13 00-0063		Round Tapered, Steel Roadway Light Poles With Davit Style Arm (26 56 13 00-0004)		
26 56 13 00-0064		Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0063)		
26 56 13 00-0065	EA	25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,653.05	406.06
		For Galvanized Finish, Add	85.23	
		For >10 To 20, Deduct	-91.33	
		For >20 To 40, Deduct	-182.65	
		For >40, Deduct	-294.28	
26 56 13 00-0066	EA	30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,135.33	456.81
		For Galvanized Finish, Add	96.65	
		For >10 To 20, Deduct	-103.38	
		For >20 To 40, Deduct	-206.77	
		For >40, Deduct	-332.99	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0067	EA		35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	4,239.09	482.20
			For Galvanized Finish, Add	98.24	
			For >10 To 20, Deduct	-105.98	
			For >20 To 40, Deduct	-211.95	
			For >40, Deduct	-342.04	
26 56 13 00-0068	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	5,103.04	507.57
			For Galvanized Finish, Add	122.64	
			For >10 To 20, Deduct	-127.58	
			For >20 To 40, Deduct	-255.15	
			For >40, Deduct	-408.11	
26 56 13 00-0069			Round Tapered, Steel Roadway Light Poles With Truss Style Arms (26 56 13 00-0004)		
26 56 13 00-0070			Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0069)		
26 56 13 00-0071	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,790.28	406.06
			For Galvanized Finish, Add	119.35	
			For >10 To 20, Deduct	-119.76	
			For >20 To 40, Deduct	-239.51	
			For >40, Deduct	-379.57	
26 56 13 00-0072	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,839.03	406.06
			For Galvanized Finish, Add	120.81	
			For >10 To 20, Deduct	-120.98	
			For >20 To 40, Deduct	-241.95	
			For >40, Deduct	-383.23	
26 56 13 00-0073	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,861.28	406.06
			For Galvanized Finish, Add	121.48	
			For >10 To 20, Deduct	-121.53	
			For >20 To 40, Deduct	-243.06	
			For >40, Deduct	-384.90	
26 56 13 00-0074	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,940.56	456.81
			For Galvanized Finish, Add	120.81	
			For >10 To 20, Deduct	-123.51	
			For >20 To 40, Deduct	-247.03	
			For >40, Deduct	-393.38	
26 56 13 00-0075	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,949.07	456.81
			For Galvanized Finish, Add	121.06	
			For >10 To 20, Deduct	-123.73	
			For >20 To 40, Deduct	-247.45	
			For >40, Deduct	-394.02	
26 56 13 00-0076	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,036.97	456.81
			For Galvanized Finish, Add	123.70	
			For >10 To 20, Deduct	-125.92	
			For >20 To 40, Deduct	-251.85	
			For >40, Deduct	-400.61	
26 56 13 00-0077	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,020.22	482.20
			For Galvanized Finish, Add	121.67	
			For >10 To 20, Deduct	-125.51	
			For >20 To 40, Deduct	-251.01	
			For >40, Deduct	-400.63	
26 56 13 00-0078	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,071.70	482.20
			For Galvanized Finish, Add	123.22	
			For >10 To 20, Deduct	-126.79	
			For >20 To 40, Deduct	-253.59	
			For >40, Deduct	-404.49	
26 56 13 00-0079	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,341.64	482.20
			For Galvanized Finish, Add	131.32	
			For >10 To 20, Deduct	-133.54	
			For >20 To 40, Deduct	-267.08	
			For >40, Deduct	-424.73	
26 56 13 00-0080			Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0069)		
26 56 13 00-0081	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,290.33	507.57
			For Galvanized Finish, Add	158.26	
			For >10 To 20, Deduct	-157.26	
			For >20 To 40, Deduct	-314.52	
			For >40, Deduct	-497.15	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0082	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	6,387.77	532.95
		For Galvanized Finish, Add	159.66	
		For >10 To 20, Deduct	-159.69	
		For >20 To 40, Deduct	-319.39	
		For >40, Deduct	-505.73	
26 56 13 00-0083	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,621.76	558.33
		For Galvanized Finish, Add	165.15	
		For >10 To 20, Deduct	-165.54	
		For >20 To 40, Deduct	-331.09	
		For >40, Deduct	-524.55	
26 56 13 00-0084	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	6,364.80	558.33
		For Galvanized Finish, Add	157.44	
		For >10 To 20, Deduct	-159.12	
		For >20 To 40, Deduct	-318.24	
		For >40, Deduct	-505.28	
26 56 13 00-0085	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	6,656.69	583.71
		For Galvanized Finish, Add	164.68	
		For >10 To 20, Deduct	-166.42	
		For >20 To 40, Deduct	-332.83	
		For >40, Deduct	-528.44	
26 56 13 00-0086	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,826.12	609.09
		For Galvanized Finish, Add	168.24	
		For >10 To 20, Deduct	-170.65	
		For >20 To 40, Deduct	-341.31	
		For >40, Deduct	-542.41	
26 56 13 00-0087	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	6,550.24	583.71
		For Galvanized Finish, Add	161.48	
		For >10 To 20, Deduct	-163.76	
		For >20 To 40, Deduct	-327.51	
		For >40, Deduct	-520.45	
26 56 13 00-0088	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	6,945.00	609.09
		For Galvanized Finish, Add	171.80	
		For >10 To 20, Deduct	-173.63	
		For >20 To 40, Deduct	-347.25	
		For >40, Deduct	-551.33	
26 56 13 00-0089	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	7,172.44	634.47
		For Galvanized Finish, Add	177.11	
		For >10 To 20, Deduct	-179.31	
		For >20 To 40, Deduct	-358.62	
		For >40, Deduct	-569.66	
26 56 13 00-0090		Aluminum Roadway Light Poles (26 56 13 00-0002) Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0091		Round Tapered, Aluminum Roadway Light Poles (26 56 13 00-0090)		
26 56 13 00-0092		Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0091)		
26 56 13 00-0093		Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0092)		
26 56 13 00-0094	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,973.63	304.54
		For >10 To 20, Deduct	-74.34	
		For >20 To 40, Deduct	-148.68	
		For >40, Deduct	-238.25	
26 56 13 00-0095	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,002.25	304.54
		For >10 To 20, Deduct	-75.06	
		For >20 To 40, Deduct	-150.11	
		For >40, Deduct	-240.40	
26 56 13 00-0096	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,608.71	406.06
		For >10 To 20, Deduct	-90.22	
		For >20 To 40, Deduct	-180.44	
		For >40, Deduct	-290.96	
26 56 13 00-0097	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,662.79	406.06
		For >10 To 20, Deduct	-91.57	
		For >20 To 40, Deduct	-183.14	
		For >40, Deduct	-295.01	
26 56 13 00-0098	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,712.53	406.06
		For >10 To 20, Deduct	-92.81	
		For >20 To 40, Deduct	-185.63	
		For >40, Deduct	-298.74	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0099	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,152.74	456.81
			For >10 To 20, Deduct	-103.82	
			For >20 To 40, Deduct	-207.64	
			For >40, Deduct	-334.30	
26 56 13 00-0100	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,198.38	456.81
			For >10 To 20, Deduct	-104.96	
			For >20 To 40, Deduct	-209.92	
			For >40, Deduct	-337.72	
26 56 13 00-0101	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,249.41	456.81
			For >10 To 20, Deduct	-106.24	
			For >20 To 40, Deduct	-212.47	
			For >40, Deduct	-341.55	
26 56 13 00-0102	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,925.44	482.20
			For >10 To 20, Deduct	-123.14	
			For >20 To 40, Deduct	-246.27	
			For >40, Deduct	-393.52	
26 56 13 00-0103	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,970.96	482.20
			For >10 To 20, Deduct	-124.27	
			For >20 To 40, Deduct	-248.55	
			For >40, Deduct	-396.93	
26 56 13 00-0104	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	5,009.08	482.20
			For >10 To 20, Deduct	-125.23	
			For >20 To 40, Deduct	-250.45	
			For >40, Deduct	-399.79	
26 56 13 00-0105 Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0092)					
26 56 13 00-0106	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,400.09	355.30
			For >10 To 20, Deduct	-85.00	
			For >20 To 40, Deduct	-170.00	
			For >40, Deduct	-272.77	
26 56 13 00-0107	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,680.59	355.30
			For >10 To 20, Deduct	-92.01	
			For >20 To 40, Deduct	-184.03	
			For >40, Deduct	-293.81	
26 56 13 00-0108	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,786.02	380.68
			For >10 To 20, Deduct	-94.65	
			For >20 To 40, Deduct	-189.30	
			For >40, Deduct	-302.99	
26 56 13 00-0109	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,019.83	456.81
			For >10 To 20, Deduct	-100.50	
			For >20 To 40, Deduct	-200.99	
			For >40, Deduct	-324.33	
26 56 13 00-0110	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,223.75	469.51
			For >10 To 20, Deduct	-105.59	
			For >20 To 40, Deduct	-211.19	
			For >40, Deduct	-340.26	
26 56 13 00-0111	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,524.23	482.20
			For >10 To 20, Deduct	-113.11	
			For >20 To 40, Deduct	-226.21	
			For >40, Deduct	-363.43	
26 56 13 00-0112	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,662.15	507.57
			For >10 To 20, Deduct	-116.55	
			For >20 To 40, Deduct	-233.11	
			For >40, Deduct	-375.04	
26 56 13 00-0113	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,853.17	520.26
			For >10 To 20, Deduct	-121.33	
			For >20 To 40, Deduct	-242.66	
			For >40, Deduct	-390.00	
26 56 13 00-0114	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,089.48	532.95
			For >10 To 20, Deduct	-127.24	
			For >20 To 40, Deduct	-254.47	
			For >40, Deduct	-408.36	
26 56 13 00-0115	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	5,337.59	532.95
			For >10 To 20, Deduct	-133.44	
			For >20 To 40, Deduct	-266.88	
			For >40, Deduct	-426.97	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0116	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,879.37	545.65
		For >10 To 20, Deduct	-146.98	
		For >20 To 40, Deduct	-293.97	
		For >40, Deduct	-468.23	
26 56 13 00-0117	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	6,511.85	558.33
		For >10 To 20, Deduct	-162.80	
		For >20 To 40, Deduct	-325.59	
		For >40, Deduct	-516.31	
26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0092)				
26 56 13 00-0119	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	3,953.14	406.06
		For >10 To 20, Deduct	-98.83	
		For >20 To 40, Deduct	-197.66	
		For >40, Deduct	-316.79	
26 56 13 00-0120	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,230.79	431.44
		For >10 To 20, Deduct	-105.77	
		For >20 To 40, Deduct	-211.54	
		For >40, Deduct	-338.88	
26 56 13 00-0121	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,791.31	507.57
		For >10 To 20, Deduct	-119.78	
		For >20 To 40, Deduct	-239.57	
		For >40, Deduct	-384.73	
26 56 13 00-0122	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,992.11	532.95
		For >10 To 20, Deduct	-124.80	
		For >20 To 40, Deduct	-249.61	
		For >40, Deduct	-401.06	
26 56 13 00-0123	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,227.87	558.33
		For >10 To 20, Deduct	-130.70	
		For >20 To 40, Deduct	-261.39	
		For >40, Deduct	-420.01	
26 56 13 00-0124	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,407.78	583.71
		For >10 To 20, Deduct	-135.19	
		For >20 To 40, Deduct	-270.39	
		For >40, Deduct	-434.77	
26 56 13 00-0125	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,676.42	583.71
		For >10 To 20, Deduct	-141.91	
		For >20 To 40, Deduct	-283.82	
		For >40, Deduct	-454.92	
26 56 13 00-0126	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	6,203.94	609.09
		For >10 To 20, Deduct	-155.10	
		For >20 To 40, Deduct	-310.20	
		For >40, Deduct	-495.75	
26 56 13 00-0127	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	6,590.03	634.47
		For >10 To 20, Deduct	-164.75	
		For >20 To 40, Deduct	-329.50	
		For >40, Deduct	-525.98	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0092)				
26 56 13 00-0129	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,053.96	456.81
		For >10 To 20, Deduct	-101.35	
		For >20 To 40, Deduct	-202.70	
		For >40, Deduct	-326.89	
26 56 13 00-0130	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,225.71	456.81
		For >10 To 20, Deduct	-105.64	
		For >20 To 40, Deduct	-211.29	
		For >40, Deduct	-339.77	
26 56 13 00-0131	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,238.54	558.33
		For >10 To 20, Deduct	-130.96	
		For >20 To 40, Deduct	-261.93	
		For >40, Deduct	-420.81	
26 56 13 00-0132	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,680.81	596.40
		For >10 To 20, Deduct	-142.02	
		For >20 To 40, Deduct	-284.04	
		For >40, Deduct	-455.88	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0133	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,940.11	609.09
			For >10 To 20, Deduct	-148.50	
			For >20 To 40, Deduct	-297.01	
			For >40, Deduct	-475.96	
26 56 13 00-0134	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,344.36	647.16
			For >10 To 20, Deduct	-158.61	
			For >20 To 40, Deduct	-317.22	
			For >40, Deduct	-508.18	
26 56 13 00-0135	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	6,263.15	634.47
			For >10 To 20, Deduct	-156.58	
			For >20 To 40, Deduct	-313.16	
			For >40, Deduct	-501.46	
26 56 13 00-0136	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	7,180.05	672.53
			For >10 To 20, Deduct	-179.50	
			For >20 To 40, Deduct	-359.00	
			For >40, Deduct	-572.13	
26 56 13 00-0137	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	7,985.64	710.60
			For >10 To 20, Deduct	-199.64	
			For >20 To 40, Deduct	-399.28	
			For >40, Deduct	-634.45	
26 56 13 00-0138 Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms (26 56 13 00-0091)					
26 56 13 00-0139 Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0138)					
26 56 13 00-0140	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,403.38	406.06
			For >10 To 20, Deduct	-110.08	
			For >20 To 40, Deduct	-220.17	
			For >40, Deduct	-350.56	
26 56 13 00-0141	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,441.63	406.06
			For >10 To 20, Deduct	-111.04	
			For >20 To 40, Deduct	-222.08	
			For >40, Deduct	-353.43	
26 56 13 00-0142	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,539.35	406.06
			For >10 To 20, Deduct	-113.48	
			For >20 To 40, Deduct	-226.97	
			For >40, Deduct	-360.75	
26 56 13 00-0143	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,685.99	406.06
			For >10 To 20, Deduct	-117.15	
			For >20 To 40, Deduct	-234.30	
			For >40, Deduct	-371.75	
26 56 13 00-0144	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,958.32	456.81
			For >10 To 20, Deduct	-123.96	
			For >20 To 40, Deduct	-247.92	
			For >40, Deduct	-394.72	
26 56 13 00-0145	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,044.55	456.81
			For >10 To 20, Deduct	-126.11	
			For >20 To 40, Deduct	-252.23	
			For >40, Deduct	-401.18	
26 56 13 00-0146	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,136.52	456.81
			For >10 To 20, Deduct	-128.41	
			For >20 To 40, Deduct	-256.83	
			For >40, Deduct	-408.08	
26 56 13 00-0147	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,691.29	456.81
			For >10 To 20, Deduct	-142.28	
			For >20 To 40, Deduct	-284.56	
			For >40, Deduct	-449.69	
26 56 13 00-0148	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	5,403.60	482.20
			For >10 To 20, Deduct	-135.09	
			For >20 To 40, Deduct	-270.18	
			For >40, Deduct	-429.38	
26 56 13 00-0149	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	6,115.45	482.20
			For >10 To 20, Deduct	-152.89	
			For >20 To 40, Deduct	-305.77	
			For >40, Deduct	-482.77	
26 56 13 00-0150	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	6,184.78	482.20
			For >10 To 20, Deduct	-154.62	
			For >20 To 40, Deduct	-309.24	
			For >40, Deduct	-487.97	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0151	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	6,624.94	482.20
		For >10 To 20, Deduct	-165.62	
		For >20 To 40, Deduct	-331.25	
		For >40, Deduct	-520.98	
26 56 13 00-0152	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	7,026.38	482.20
		For >10 To 20, Deduct	-175.66	
		For >20 To 40, Deduct	-351.32	
		For >40, Deduct	-551.09	
26 56 13 00-0153 Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms				
		(26 56 13 00-0138)		
26 56 13 00-0154	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,737.08	507.57
		For >10 To 20, Deduct	-143.43	
		For >20 To 40, Deduct	-286.85	
		For >40, Deduct	-455.66	
26 56 13 00-0155	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,885.56	532.95
		For >10 To 20, Deduct	-147.14	
		For >20 To 40, Deduct	-294.28	
		For >40, Deduct	-468.06	
26 56 13 00-0156	EA	25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,999.20	558.33
		For >10 To 20, Deduct	-149.98	
		For >20 To 40, Deduct	-299.96	
		For >40, Deduct	-477.86	
26 56 13 00-0157	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,166.72	558.33
		For >10 To 20, Deduct	-154.17	
		For >20 To 40, Deduct	-308.34	
		For >40, Deduct	-490.42	
26 56 13 00-0158	EA	30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,726.84	583.71
		For >10 To 20, Deduct	-168.17	
		For >20 To 40, Deduct	-336.34	
		For >40, Deduct	-533.70	
26 56 13 00-0159	EA	30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,782.61	609.09
		For >10 To 20, Deduct	-194.57	
		For >20 To 40, Deduct	-389.13	
		For >40, Deduct	-614.15	
26 56 13 00-0160	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	7,532.89	583.71
		For >10 To 20, Deduct	-188.32	
		For >20 To 40, Deduct	-376.64	
		For >40, Deduct	-594.15	
26 56 13 00-0161	EA	35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	7,665.53	609.09
		For >10 To 20, Deduct	-191.64	
		For >20 To 40, Deduct	-383.28	
		For >40, Deduct	-605.37	
26 56 13 00-0162	EA	35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	9,434.91	634.47
		For >10 To 20, Deduct	-235.87	
		For >20 To 40, Deduct	-471.75	
		For >40, Deduct	-739.34	
26 56 13 00-0163 Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm				
		(26 56 13 00-0091)		
26 56 13 00-0164 Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm				
		(26 56 13 00-0163)		
26 56 13 00-0165	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,642.07	304.54
		For >10 To 20, Deduct	-91.05	
		For >20 To 40, Deduct	-182.10	
		For >40, Deduct	-288.38	
26 56 13 00-0166	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,750.12	304.54
		For >10 To 20, Deduct	-93.75	
		For >20 To 40, Deduct	-187.51	
		For >40, Deduct	-296.49	
26 56 13 00-0167	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,858.40	304.54
		For >10 To 20, Deduct	-96.46	
		For >20 To 40, Deduct	-192.92	
		For >40, Deduct	-304.61	
26 56 13 00-0168	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,286.89	406.06
		For >10 To 20, Deduct	-107.17	
		For >20 To 40, Deduct	-214.34	
		For >40, Deduct	-341.82	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0169	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davitt Style Arm, Anchor Base	4,369.24	406.06
			For >10 To 20, Deduct	-109.23	
			For >20 To 40, Deduct	-218.46	
			For >40, Deduct	-348.00	
26 56 13 00-0170	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base	4,459.22	406.06
			For >10 To 20, Deduct	-111.48	
			For >20 To 40, Deduct	-222.96	
			For >40, Deduct	-354.74	
26 56 13 00-0171	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davitt Style Arm, Anchor Base	4,839.84	456.81
			For >10 To 20, Deduct	-121.00	
			For >20 To 40, Deduct	-241.99	
			For >40, Deduct	-385.83	
26 56 13 00-0172	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davitt Style Arm, Anchor Base	4,951.64	456.81
			For >10 To 20, Deduct	-123.79	
			For >20 To 40, Deduct	-247.58	
			For >40, Deduct	-394.21	
26 56 13 00-0173	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base	4,968.41	456.81
			For >10 To 20, Deduct	-124.21	
			For >20 To 40, Deduct	-248.42	
			For >40, Deduct	-395.47	
26 56 13 00-0174	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davitt Style Arm, Anchor Base	5,288.40	482.20
			For >10 To 20, Deduct	-132.21	
			For >20 To 40, Deduct	-264.42	
			For >40, Deduct	-420.74	
26 56 13 00-0175	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davitt Style Arm, Anchor Base	5,337.44	482.20
			For >10 To 20, Deduct	-133.44	
			For >20 To 40, Deduct	-266.87	
			For >40, Deduct	-424.42	
26 56 13 00-0176	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base	5,452.41	482.20
			For >10 To 20, Deduct	-136.31	
			For >20 To 40, Deduct	-272.62	
			For >40, Deduct	-433.04	
26 56 13 00-0177			Area Light Poles (26 56 13 00-0001)		
			Note: Excludes lighting fixtures.		
26 56 13 00-0178			Steel Area Light Poles (26 56 13 00-0177)		
			Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0179			Round Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0180			Round Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0179)		
26 56 13 00-0181	EA		10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	806.45	177.65
			For Galvanized Finish, Add	13.53	
			For >10 To 20, Deduct	-26.93	
			For >20 To 40, Deduct	-49.35	
			For >40, Deduct	-103.20	
26 56 13 00-0182	EA		12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	882.20	203.03
			For Galvanized Finish, Add	14.28	
			For >10 To 20, Deduct	-29.20	
			For >20 To 40, Deduct	-53.63	
			For >40, Deduct	-112.03	
26 56 13 00-0183	EA		14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	986.69	228.41
			For Galvanized Finish, Add	15.90	
			For >10 To 20, Deduct	-32.62	
			For >20 To 40, Deduct	-59.93	
			For >40, Deduct	-125.16	
26 56 13 00-0184	EA		16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,093.68	253.79
			For Galvanized Finish, Add	17.58	
			For >10 To 20, Deduct	-36.13	
			For >20 To 40, Deduct	-66.41	
			For >40, Deduct	-138.67	
26 56 13 00-0185	EA		18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,169.44	279.17
			For Galvanized Finish, Add	18.33	
			For >10 To 20, Deduct	-38.40	
			For >20 To 40, Deduct	-70.69	
			For >40, Deduct	-147.50	
26 56 13 00-0186	EA		20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,238.94	304.54
			For Galvanized Finish, Add	18.90	
			For >10 To 20, Deduct	-40.42	
			For >20 To 40, Deduct	-74.54	
			For >40, Deduct	-155.39	
26 56 13 00-0187	EA		10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	838.94	177.65
			For Galvanized Finish, Add	14.51	
			For >10 To 20, Deduct	-28.23	
			For >20 To 40, Deduct	-51.62	
			For >40, Deduct	-108.08	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0188	EA		12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	915.94	203.03
			For Galvanized Finish, Add	15.30	
			For >10 To 20, Deduct	-30.55	
			For >20 To 40, Deduct	-55.99	
			For >40, Deduct	-117.09	
26 56 13 00-0189	EA		14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,054.17	228.41
			For Galvanized Finish, Add	17.92	
			For >10 To 20, Deduct	-35.31	
			For >20 To 40, Deduct	-64.66	
			For >40, Deduct	-135.29	
26 56 13 00-0190	EA		16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,137.42	253.79
			For Galvanized Finish, Add	18.90	
			For >10 To 20, Deduct	-37.88	
			For >20 To 40, Deduct	-69.47	
			For >40, Deduct	-145.23	
26 56 13 00-0191	EA		18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,216.93	279.17
			For Galvanized Finish, Add	19.76	
			For >10 To 20, Deduct	-40.30	
			For >20 To 40, Deduct	-74.02	
			For >40, Deduct	-154.62	
26 56 13 00-0192	EA		20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,283.93	304.54
			For Galvanized Finish, Add	20.25	
			For >10 To 20, Deduct	-42.22	
			For >20 To 40, Deduct	-77.69	
			For >40, Deduct	-162.14	
26 56 13 00-0193	EA		25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,533.19	406.06
			For Galvanized Finish, Add	21.63	
			For >10 To 20, Deduct	-49.15	
			For >20 To 40, Deduct	-91.08	
			For >40, Deduct	-189.37	
26 56 13 00-0194	EA		10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	838.94	177.65
			For Galvanized Finish, Add	14.51	
			For >10 To 20, Deduct	-28.23	
			For >20 To 40, Deduct	-51.62	
			For >40, Deduct	-108.08	
26 56 13 00-0195	EA		12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	919.69	203.03
			For Galvanized Finish, Add	15.41	
			For >10 To 20, Deduct	-30.70	
			For >20 To 40, Deduct	-56.26	
			For >40, Deduct	-117.65	
26 56 13 00-0196	EA		14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,074.17	228.41
			For Galvanized Finish, Add	18.52	
			For >10 To 20, Deduct	-36.11	
			For >20 To 40, Deduct	-66.06	
			For >40, Deduct	-138.29	
26 56 13 00-0197	EA		16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,141.17	253.79
			For Galvanized Finish, Add	19.01	
			For >10 To 20, Deduct	-38.03	
			For >20 To 40, Deduct	-69.73	
			For >40, Deduct	-145.80	
26 56 13 00-0198	EA		18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,216.93	279.17
			For Galvanized Finish, Add	19.76	
			For >10 To 20, Deduct	-40.30	
			For >20 To 40, Deduct	-74.02	
			For >40, Deduct	-154.62	
26 56 13 00-0199	EA		20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,283.93	304.54
			For Galvanized Finish, Add	20.25	
			For >10 To 20, Deduct	-42.22	
			For >20 To 40, Deduct	-77.69	
			For >40, Deduct	-162.14	
26 56 13 00-0200	EA		25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,568.18	406.06
			For Galvanized Finish, Add	22.68	
			For >10 To 20, Deduct	-50.55	
			For >20 To 40, Deduct	-93.53	
			For >40, Deduct	-194.62	
26 56 13 00-0201	EA		30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,734.70	456.81
			For Galvanized Finish, Add	24.63	
			For >10 To 20, Deduct	-55.68	
			For >20 To 40, Deduct	-103.16	
			For >40, Deduct	-214.52	
26 56 13 00-0202	EA		20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,363.91	304.54
			For Galvanized Finish, Add	22.64	
			For >10 To 20, Deduct	-45.42	
			For >20 To 40, Deduct	-83.29	
			For >40, Deduct	-174.13	
26 56 13 00-0203	EA		25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,584.43	406.06
			For Galvanized Finish, Add	23.17	
			For >10 To 20, Deduct	-51.20	
			For >20 To 40, Deduct	-94.67	
			For >40, Deduct	-197.06	
26 56 13 00-0204	EA		30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,765.94	456.81
			For Galvanized Finish, Add	25.57	
			For >10 To 20, Deduct	-56.93	
			For >20 To 40, Deduct	-105.34	
			For >40, Deduct	-219.21	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0205			Round Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0206			Round Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0205)		
26 56 13 00-0207	EA		20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	1,646.35	304.54
			For Galvanized Finish, Add	31.12	
			For >10 To 20, Deduct	-56.72	
			For >20 To 40, Deduct	-103.06	
			For >40, Deduct	-216.50	
26 56 13 00-0208	EA		20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	1,685.09	304.54
			For Galvanized Finish, Add	32.28	
			For >10 To 20, Deduct	-58.27	
			For >20 To 40, Deduct	-105.77	
			For >40, Deduct	-222.31	
26 56 13 00-0209	EA		25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	1,973.09	406.06
			For Galvanized Finish, Add	34.83	
			For >10 To 20, Deduct	-66.74	
			For >20 To 40, Deduct	-121.87	
			For >40, Deduct	-255.36	
26 56 13 00-0210	EA		25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,053.07	406.06
			For Galvanized Finish, Add	37.23	
			For >10 To 20, Deduct	-69.94	
			For >20 To 40, Deduct	-127.47	
			For >40, Deduct	-267.36	
26 56 13 00-0211	EA		30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,199.59	456.81
			For Galvanized Finish, Add	38.58	
			For >10 To 20, Deduct	-74.28	
			For >20 To 40, Deduct	-135.70	
			For >40, Deduct	-284.26	
26 56 13 00-0212	EA		30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,333.31	456.81
			For Galvanized Finish, Add	42.59	
			For >10 To 20, Deduct	-79.63	
			For >20 To 40, Deduct	-145.06	
			For >40, Deduct	-304.31	
26 56 13 00-0213	EA		35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,411.56	482.20
			For Galvanized Finish, Add	43.41	
			For >10 To 20, Deduct	-82.00	
			For >20 To 40, Deduct	-149.52	
			For >40, Deduct	-313.51	
26 56 13 00-0214	EA		35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,494.04	482.20
			For Galvanized Finish, Add	45.89	
			For >10 To 20, Deduct	-85.30	
			For >20 To 40, Deduct	-155.29	
			For >40, Deduct	-325.89	
26 56 13 00-0215	EA		35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,691.50	482.20
			For Galvanized Finish, Add	51.81	
			For >10 To 20, Deduct	-93.19	
			For >20 To 40, Deduct	-169.12	
			For >40, Deduct	-355.51	
26 56 13 00-0216	EA		39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,727.25	507.57
			For Galvanized Finish, Add	51.36	
			For >10 To 20, Deduct	-93.86	
			For >20 To 40, Deduct	-170.60	
			For >40, Deduct	-358.33	
26 56 13 00-0217	EA		39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,762.24	507.57
			For Galvanized Finish, Add	52.41	
			For >10 To 20, Deduct	-95.26	
			For >20 To 40, Deduct	-173.05	
			For >40, Deduct	-363.58	
26 56 13 00-0218	EA		45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,740.38	659.84
			For Galvanized Finish, Add	72.62	
			For >10 To 20, Deduct	-129.82	
			For >20 To 40, Deduct	-235.43	
			For >40, Deduct	-495.07	
26 56 13 00-0219	EA		50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,935.91	761.36
			For Galvanized Finish, Add	72.40	
			For >10 To 20, Deduct	-134.60	
			For >20 To 40, Deduct	-245.06	
			For >40, Deduct	-514.25	
26 56 13 00-0220	EA		25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,595.45	406.06
			For Galvanized Finish, Add	53.50	
			For >10 To 20, Deduct	-91.64	
			For >20 To 40, Deduct	-165.44	
			For >40, Deduct	-348.71	
26 56 13 00-0221	EA		30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,944.42	456.81
			For Galvanized Finish, Add	60.92	
			For >10 To 20, Deduct	-104.07	
			For >20 To 40, Deduct	-187.84	
			For >40, Deduct	-395.98	
26 56 13 00-0222	EA		39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,400.85	507.57
			For Galvanized Finish, Add	71.57	
			For >10 To 20, Deduct	-120.81	
			For >20 To 40, Deduct	-217.76	
			For >40, Deduct	-459.37	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0223	EA		45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,130.29	659.84
			For Galvanized Finish, Add	84.32	
			For >10 To 20, Deduct	-145.42	
			For >20 To 40, Deduct	-262.73	
			For >40, Deduct	-553.56	
26 56 13 00-0224	EA		50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,815.71	761.36
			For Galvanized Finish, Add	98.79	
			For >10 To 20, Deduct	-169.79	
			For >20 To 40, Deduct	-306.65	
			For >40, Deduct	-646.22	
26 56 13 00-0225	EA		50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,324.34	761.36
			For Galvanized Finish, Add	114.05	
			For >10 To 20, Deduct	-190.13	
			For >20 To 40, Deduct	-342.25	
			For >40, Deduct	-722.52	
26 56 13 00-0226	EA		50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,023.94	761.36
			For Galvanized Finish, Add	165.04	
			For >10 To 20, Deduct	-258.12	
			For >20 To 40, Deduct	-461.22	
			For >40, Deduct	-977.46	
26 56 13 00-0227	EA		50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,848.75	761.36
			For Galvanized Finish, Add	189.78	
			For >10 To 20, Deduct	-291.11	
			For >20 To 40, Deduct	-518.96	
			For >40, Deduct	-1,101.18	
26 56 13 00-0228			Square Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0229			Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0228)		
26 56 13 00-0230	EA		10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	796.45	177.65
			For Galvanized Finish, Add	13.23	
			For >10 To 20, Deduct	-26.53	
			For >20 To 40, Deduct	-48.65	
			For >40, Deduct	-101.70	
26 56 13 00-0231	EA		12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	847.21	203.03
			For Galvanized Finish, Add	13.23	
			For >10 To 20, Deduct	-27.80	
			For >20 To 40, Deduct	-51.18	
			For >40, Deduct	-106.78	
26 56 13 00-0232	EA		14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	919.20	228.41
			For Galvanized Finish, Add	13.87	
			For >10 To 20, Deduct	-29.92	
			For >20 To 40, Deduct	-55.21	
			For >40, Deduct	-115.04	
26 56 13 00-0233	EA		15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	974.59	241.09
			For Galvanized Finish, Add	14.77	
			For >10 To 20, Deduct	-31.75	
			For >20 To 40, Deduct	-58.58	
			For >40, Deduct	-122.08	
26 56 13 00-0234	EA		16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	999.96	253.79
			For Galvanized Finish, Add	14.77	
			For >10 To 20, Deduct	-32.38	
			For >20 To 40, Deduct	-59.85	
			For >40, Deduct	-124.62	
26 56 13 00-0235	EA		18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,064.46	279.17
			For Galvanized Finish, Add	15.18	
			For >10 To 20, Deduct	-34.20	
			For >20 To 40, Deduct	-63.35	
			For >40, Deduct	-131.75	
26 56 13 00-0236	EA		20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,126.47	304.54
			For Galvanized Finish, Add	15.52	
			For >10 To 20, Deduct	-35.92	
			For >20 To 40, Deduct	-66.67	
			For >40, Deduct	-138.52	
26 56 13 00-0237	EA		25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,404.47	406.06
			For Galvanized Finish, Add	17.77	
			For >10 To 20, Deduct	-44.00	
			For >20 To 40, Deduct	-82.07	
			For >40, Deduct	-170.07	
26 56 13 00-0238	EA		20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,295.18	304.54
			For Galvanized Finish, Add	20.58	
			For >10 To 20, Deduct	-42.67	
			For >20 To 40, Deduct	-78.48	
			For >40, Deduct	-163.82	
26 56 13 00-0239	EA		25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,636.92	406.06
			For Galvanized Finish, Add	24.74	
			For >10 To 20, Deduct	-53.30	
			For >20 To 40, Deduct	-98.34	
			For >40, Deduct	-204.93	
26 56 13 00-0240	EA		30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,874.67	456.81
			For Galvanized Finish, Add	28.83	
			For >10 To 20, Deduct	-61.28	
			For >20 To 40, Deduct	-112.95	
			For >40, Deduct	-235.52	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0241	EA	20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,248.94	304.54	
		For Galvanized Finish, Add	19.20		
		For >10 To 20, Deduct	-40.82		
		For >20 To 40, Deduct	-75.24		
		For >40, Deduct	-156.89		
26 56 13 00-0242	EA	25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,546.94	406.06	
		For Galvanized Finish, Add	22.04		
		For >10 To 20, Deduct	-49.70		
		For >20 To 40, Deduct	-92.04		
		For >40, Deduct	-191.44		
26 56 13 00-0243	EA	30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,797.18	456.81	
		For Galvanized Finish, Add	26.51		
		For >10 To 20, Deduct	-58.18		
		For >20 To 40, Deduct	-107.53		
		For >40, Deduct	-223.90		
26 56 13 00-0244	EA	20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,407.65	304.54	
		For Galvanized Finish, Add	23.96		
		For >10 To 20, Deduct	-47.17		
		For >20 To 40, Deduct	-86.35		
		For >40, Deduct	-180.69		
26 56 13 00-0245	EA	25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,749.39	406.06	
		For Galvanized Finish, Add	28.12		
		For >10 To 20, Deduct	-57.79		
		For >20 To 40, Deduct	-106.22		
		For >40, Deduct	-221.80		
26 56 13 00-0246	EA	30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,980.89	456.81	
		For Galvanized Finish, Add	32.02		
		For >10 To 20, Deduct	-65.53		
		For >20 To 40, Deduct	-120.39		
		For >40, Deduct	-251.45		
26 56 13 00-0247	EA	35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,186.62	482.20	
		For Galvanized Finish, Add	36.67		
		For >10 To 20, Deduct	-73.00		
		For >20 To 40, Deduct	-133.78		
		For >40, Deduct	-279.77		
26 56 13 00-0248	EA	30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,227.09	456.81	
		For Galvanized Finish, Add	39.40		
		For >10 To 20, Deduct	-75.38		
		For >20 To 40, Deduct	-137.62		
		For >40, Deduct	-288.38		
26 56 13 00-0249	EA	35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,434.06	482.20	
		For Galvanized Finish, Add	44.09		
		For >10 To 20, Deduct	-82.90		
		For >20 To 40, Deduct	-151.10		
		For >40, Deduct	-316.89		
26 56 13 00-0250	EA	40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,573.54	507.57	
		For Galvanized Finish, Add	46.75		
		For >10 To 20, Deduct	-87.71		
		For >20 To 40, Deduct	-159.84		
		For >40, Deduct	-335.27		
26 56 13 00-0251		Hinged, Square Straight, Steel Area Light Poles (26 56 13 00-0178)			
26 56 13 00-0252		Hinged, Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0251)			
26 56 13 00-0253	EA	20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,681.37	304.54	
		For Galvanized Finish, Add	62.17		
		For >10 To 20, Deduct	-98.12		
		For >20 To 40, Deduct	-175.51		
		For >40, Deduct	-371.75		
26 56 13 00-0254	EA	25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	3,025.29	406.06	
		For Galvanized Finish, Add	66.40		
		For >10 To 20, Deduct	-108.83		
		For >20 To 40, Deduct	-195.53		
		For >40, Deduct	-413.19		
26 56 13 00-0255	EA	30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,179.58	456.81	
		For Galvanized Finish, Add	97.98		
		For >10 To 20, Deduct	-153.48		
		For >20 To 40, Deduct	-274.30		
		For >40, Deduct	-581.26		
26 56 13 00-0256	EA	20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,731.88	304.54	
		For Galvanized Finish, Add	63.68		
		For >10 To 20, Deduct	-100.14		
		For >20 To 40, Deduct	-179.05		
		For >40, Deduct	-379.33		
26 56 13 00-0257	EA	25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	3,319.05	406.06	
		For Galvanized Finish, Add	75.21		
		For >10 To 20, Deduct	-120.58		
		For >20 To 40, Deduct	-216.09		
		For >40, Deduct	-457.25		
26 56 13 00-0258	EA	30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,616.89	456.81	
		For Galvanized Finish, Add	111.10		
		For >10 To 20, Deduct	-170.97		
		For >20 To 40, Deduct	-304.91		
		For >40, Deduct	-646.85		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0259	EA		35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,277.77	482.20
			For Galvanized Finish, Add	129.40	
			For >10 To 20, Deduct	-196.64	
			For >20 To 40, Deduct	-350.16	
			For >40, Deduct	-743.45	
26 56 13 00-0260	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,175.25	507.57
			For Galvanized Finish, Add	154.80	
			For >10 To 20, Deduct	-231.78	
			For >20 To 40, Deduct	-411.96	
			For >40, Deduct	-875.53	
26 56 13 00-0261	EA		20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,601.62	304.54
			For Galvanized Finish, Add	59.78	
			For >10 To 20, Deduct	-94.93	
			For >20 To 40, Deduct	-169.93	
			For >40, Deduct	-359.79	
26 56 13 00-0262	EA		25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,897.68	406.06
			For Galvanized Finish, Add	62.57	
			For >10 To 20, Deduct	-103.73	
			For >20 To 40, Deduct	-186.60	
			For >40, Deduct	-394.05	
26 56 13 00-0263	EA		30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	3,954.93	456.81
			For Galvanized Finish, Add	91.24	
			For >10 To 20, Deduct	-144.49	
			For >20 To 40, Deduct	-258.57	
			For >40, Deduct	-547.56	
26 56 13 00-0264	EA		20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,693.33	304.54
			For Galvanized Finish, Add	62.53	
			For >10 To 20, Deduct	-98.60	
			For >20 To 40, Deduct	-176.35	
			For >40, Deduct	-373.55	
26 56 13 00-0265	EA		25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	3,199.42	406.06
			For Galvanized Finish, Add	71.62	
			For >10 To 20, Deduct	-115.80	
			For >20 To 40, Deduct	-207.72	
			For >40, Deduct	-439.31	
26 56 13 00-0266	EA		30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base	4,450.74	456.81
			For Galvanized Finish, Add	106.11	
			For >10 To 20, Deduct	-164.33	
			For >20 To 40, Deduct	-293.28	
			For >40, Deduct	-621.93	
26 56 13 00-0267	EA		20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,834.23	304.54
			For Galvanized Finish, Add	66.75	
			For >10 To 20, Deduct	-104.23	
			For >20 To 40, Deduct	-186.21	
			For >40, Deduct	-394.68	
26 56 13 00-0268	EA		25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	3,453.30	406.06
			For Galvanized Finish, Add	79.24	
			For >10 To 20, Deduct	-125.95	
			For >20 To 40, Deduct	-225.49	
			For >40, Deduct	-477.39	
26 56 13 00-0269	EA		30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,749.82	456.81
			For Galvanized Finish, Add	115.09	
			For >10 To 20, Deduct	-176.29	
			For >20 To 40, Deduct	-314.21	
			For >40, Deduct	-666.79	
26 56 13 00-0270	EA		35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,439.94	482.20
			For Galvanized Finish, Add	134.27	
			For >10 To 20, Deduct	-203.13	
			For >20 To 40, Deduct	-361.51	
			For >40, Deduct	-767.77	
26 56 13 00-0271	EA		39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,261.65	507.57
			For Galvanized Finish, Add	157.40	
			For >10 To 20, Deduct	-235.24	
			For >20 To 40, Deduct	-418.01	
			For >40, Deduct	-888.49	
26 56 13 00-0272			Square Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0273			Square Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0272)		
26 56 13 00-0274	EA		20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	2,067.50	304.54
			For Galvanized Finish, Add	43.75	
			For >10 To 20, Deduct	-73.56	
			For >20 To 40, Deduct	-132.54	
			For >40, Deduct	-279.67	
26 56 13 00-0275	EA		25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	2,527.96	406.06
			For Galvanized Finish, Add	51.48	
			For >10 To 20, Deduct	-88.94	
			For >20 To 40, Deduct	-160.72	
			For >40, Deduct	-338.59	
26 56 13 00-0276	EA		30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	2,815.70	456.81
			For Galvanized Finish, Add	57.06	
			For >10 To 20, Deduct	-98.92	
			For >20 To 40, Deduct	-178.83	
			For >40, Deduct	-376.67	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0277	EA	35'	High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,112.65	482.20
			For Galvanized Finish, Add	64.45	
			For >10 To 20, Deduct	-110.04	
			For >20 To 40, Deduct	-198.60	
			For >40, Deduct	-418.68	
26 56 13 00-0278	EA	39'	High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,280.87	507.57
			For Galvanized Finish, Add	67.97	
			For >10 To 20, Deduct	-116.01	
			For >20 To 40, Deduct	-209.36	
			For >40, Deduct	-441.37	
26 56 13 00-0279	EA	20'	High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	2,628.62	304.54
			For Galvanized Finish, Add	60.59	
			For >10 To 20, Deduct	-96.01	
			For >20 To 40, Deduct	-171.82	
			For >40, Deduct	-363.84	
26 56 13 00-0280	EA	25'	High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	2,967.86	406.06
			For Galvanized Finish, Add	64.67	
			For >10 To 20, Deduct	-106.53	
			For >20 To 40, Deduct	-191.51	
			For >40, Deduct	-404.57	
26 56 13 00-0281	EA	30'	High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,175.62	456.81
			For Galvanized Finish, Add	67.86	
			For >10 To 20, Deduct	-113.32	
			For >20 To 40, Deduct	-204.02	
			For >40, Deduct	-430.66	
26 56 13 00-0282	EA	30'	High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,505.54	456.81
			For Galvanized Finish, Add	77.76	
			For >10 To 20, Deduct	-126.52	
			For >20 To 40, Deduct	-227.12	
			For >40, Deduct	-480.15	
26 56 13 00-0283	EA	35'	High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,793.74	482.20
			For Galvanized Finish, Add	84.88	
			For >10 To 20, Deduct	-137.28	
			For >20 To 40, Deduct	-246.27	
			For >40, Deduct	-520.84	
26 56 13 00-0284	EA	35'	High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,202.40	482.20
			For Galvanized Finish, Add	97.14	
			For >10 To 20, Deduct	-153.63	
			For >20 To 40, Deduct	-274.88	
			For >40, Deduct	-582.14	
26 56 13 00-0285	EA	39'	High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,863.24	507.57
			For Galvanized Finish, Add	85.44	
			For >10 To 20, Deduct	-139.30	
			For >20 To 40, Deduct	-250.12	
			For >40, Deduct	-528.73	
26 56 13 00-0286	EA	39'	High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,869.26	507.57
			For Galvanized Finish, Add	115.62	
			For >10 To 20, Deduct	-179.54	
			For >20 To 40, Deduct	-320.55	
			For >40, Deduct	-679.63	
26 56 13 00-0287	EA	45'	High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,591.43	659.84
			For Galvanized Finish, Add	98.15	
			For >10 To 20, Deduct	-163.86	
			For >20 To 40, Deduct	-295.01	
			For >40, Deduct	-622.73	
26 56 13 00-0288	EA	45'	High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	5,277.52	659.84
			For Galvanized Finish, Add	118.73	
			For >10 To 20, Deduct	-191.31	
			For >20 To 40, Deduct	-343.03	
			For >40, Deduct	-725.64	
26 56 13 00-0289	EA	50'	High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	5,515.54	761.36
			For Galvanized Finish, Add	119.78	
			For >10 To 20, Deduct	-197.78	
			For >20 To 40, Deduct	-355.63	
			For >40, Deduct	-751.20	
26 56 13 00-0290	Factory Accessories For Steel Area Light Poles (26 56 13 00-0178)				
26 56 13 00-0291	EA	1/2", 3/4" Or 1"	Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	44.31	
26 56 13 00-0292	EA		Festoon Outlet Provision For Steel Area Light Poles.....	61.35	
			Note: Excludes electrical outlet.		
26 56 13 00-0293	EA		Extra Handhole For Steel Area Light Poles	65.89	
26 56 13 00-0294	EA		Vibration Dampener For Steel Area Light Poles	67.03	
26 56 13 00-0295	Aluminum Area Light Poles (26 56 13 00-0177)				
			Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0296	Round Straight, Aluminum Area Light Poles (26 56 13 00-0295)				
26 56 13 00-0297	Round Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0296)				

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0298	EA	8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	828.78	152.27
		For Bronze Or Satin Anodized Finish, Add	52.42	
		For Black Anodized Finish, Add	104.85	
		For >10 To 20, Deduct	-28.58	
		For >20 To 40, Deduct	-51.92	
		For >40, Deduct	-109.09	
26 56 13 00-0299	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	906.42	177.65
		For Bronze Or Satin Anodized Finish, Add	55.11	
		For Black Anodized Finish, Add	110.22	
		For >10 To 20, Deduct	-30.93	
		For >20 To 40, Deduct	-56.34	
		For >40, Deduct	-118.20	
26 56 13 00-0300	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	990.79	203.03
		For Bronze Or Satin Anodized Finish, Add	58.47	
		For Black Anodized Finish, Add	116.95	
		For >10 To 20, Deduct	-33.54	
		For >20 To 40, Deduct	-61.23	
		For >40, Deduct	-128.32	
26 56 13 00-0301	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,076.49	228.41
		For Bronze Or Satin Anodized Finish, Add	61.97	
		For Black Anodized Finish, Add	123.94	
		For >10 To 20, Deduct	-36.21	
		For >20 To 40, Deduct	-66.22	
		For >40, Deduct	-138.63	
26 56 13 00-0302	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,124.73	241.09
		For Bronze Or Satin Anodized Finish, Add	64.25	
		For Black Anodized Finish, Add	128.51	
		For >10 To 20, Deduct	-37.76	
		For >20 To 40, Deduct	-69.09	
		For >40, Deduct	-144.60	
26 56 13 00-0303	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,171.60	253.79
		For Bronze Or Satin Anodized Finish, Add	66.40	
		For Black Anodized Finish, Add	132.81	
		For >10 To 20, Deduct	-39.25	
		For >20 To 40, Deduct	-71.86	
		For >40, Deduct	-150.36	
26 56 13 00-0304	EA	16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,252.26	253.79
		For Bronze Or Satin Anodized Finish, Add	74.47	
		For Black Anodized Finish, Add	148.94	
		For >10 To 20, Deduct	-42.48	
		For >20 To 40, Deduct	-77.51	
		For >40, Deduct	-162.46	
26 56 13 00-0305	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,354.10	279.17
		For Bronze Or Satin Anodized Finish, Add	79.58	
		For Black Anodized Finish, Add	159.15	
		For >10 To 20, Deduct	-45.79	
		For >20 To 40, Deduct	-83.62	
		For >40, Deduct	-175.20	
26 56 13 00-0306	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,447.87	304.54
		For Bronze Or Satin Anodized Finish, Add	83.88	
		For Black Anodized Finish, Add	167.76	
		For >10 To 20, Deduct	-48.78	
		For >20 To 40, Deduct	-89.17	
		For >40, Deduct	-186.73	
26 56 13 00-0307	EA	15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,421.80	241.09
		For Bronze Or Satin Anodized Finish, Add	93.96	
		For Black Anodized Finish, Add	187.92	
		For >10 To 20, Deduct	-49.64	
		For >20 To 40, Deduct	-89.88	
		For >40, Deduct	-189.16	
26 56 13 00-0308	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,744.94	304.54
		For Bronze Or Satin Anodized Finish, Add	113.59	
		For Black Anodized Finish, Add	227.17	
		For >10 To 20, Deduct	-60.66	
		For >20 To 40, Deduct	-109.96	
		For >40, Deduct	-231.29	
26 56 13 00-0309	EA	20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,895.49	304.54
		For Bronze Or Satin Anodized Finish, Add	128.64	
		For Black Anodized Finish, Add	257.28	
		For >10 To 20, Deduct	-66.68	
		For >20 To 40, Deduct	-120.50	
		For >40, Deduct	-253.87	
26 56 13 00-0310	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	2,239.65	406.06
		For Bronze Or Satin Anodized Finish, Add	142.75	
		For Black Anodized Finish, Add	285.51	
		For >10 To 20, Deduct	-77.40	
		For >20 To 40, Deduct	-140.53	
		For >40, Deduct	-295.34	
26 56 13 00-0311	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	2,608.68	456.81
		For Bronze Or Satin Anodized Finish, Add	169.50	
		For Black Anodized Finish, Add	339.01	
		For >10 To 20, Deduct	-90.64	
		For >20 To 40, Deduct	-164.33	
		For >40, Deduct	-345.62	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0312	EA	20'	High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,540.62 93.15 186.31 -52.49 -95.66 -200.64	304.54
26 56 13 00-0313	EA	20'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,883.39 127.43 254.86 -66.20 -119.66 -252.05	304.54
26 56 13 00-0314	EA	25'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,218.14 140.60 281.21 -76.54 -139.03 -292.12	406.06
26 56 13 00-0315	EA	25'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,413.05 160.09 320.19 -84.34 -152.67 -321.35	406.06
26 56 13 00-0316	EA	30'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,829.12 191.55 383.10 -99.46 -179.77 -378.69	456.81
26 56 13 00-0317 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0296)					
26 56 13 00-0318	EA	8'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	965.89 99.20 -34.07 -61.52 -129.66	152.27
26 56 13 00-0319	EA	10'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,070.41 107.27 -37.49 -67.82 -142.80	177.65
26 56 13 00-0320	EA	12'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,169.57 114.53 -40.69 -73.75 -155.13	203.03
26 56 13 00-0321	EA	14'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,243.17 117.95 -42.87 -77.89 -163.64	228.41
26 56 13 00-0322	EA	16'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,332.91 123.80 -45.70 -83.15 -174.56	253.79
26 56 13 00-0323	EA	10'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,098.64 111.50 -38.62 -69.80 -147.03	177.65
26 56 13 00-0324	EA	12'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,195.11 118.36 -41.71 -75.54 -158.96	203.03
26 56 13 00-0325	EA	14'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,295.59 125.82 -44.97 -81.56 -171.50	228.41
26 56 13 00-0326	EA	16'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,394.74 133.08 -48.18 -87.48 -183.83	253.79
26 56 13 00-0327	EA	18'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,500.61 141.34 -51.65 -93.88 -197.18	279.17

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0328 EA 20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,598.42 148.40 -54.80 -99.71 -209.31	304.54
26 56 13 00-0329 EA 12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,247.53 126.22 -43.81 -79.21 -166.83	203.03
26 56 13 00-0330 EA 14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,357.42 135.09 -47.44 -85.88 -180.77	228.41
26 56 13 00-0331 EA 16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,465.98 143.76 -51.03 -92.47 -194.52	253.79
26 56 13 00-0332 EA 18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,577.23 152.84 -54.71 -99.24 -208.67	279.17
26 56 13 00-0333 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,541.26 155.05 -54.04 -97.74 -205.81	253.79
26 56 13 00-0334 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,774.51 174.81 -61.84 -112.03 -235.72	304.54
26 56 13 00-0335 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,297.26 133.68 -45.80 -82.69 -174.29	203.03
26 56 13 00-0336 EA 14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,421.95 144.77 -50.03 -90.40 -190.45	228.41
26 56 13 00-0337 EA 16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,533.19 153.84 -53.71 -97.17 -204.60	253.79
26 56 13 00-0338 EA 18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,652.51 164.13 -57.73 -104.51 -219.96	279.17
26 56 13 00-0339 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,767.79 173.81 -61.58 -111.56 -234.71	304.54
26 56 13 00-0340 EA 16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,631.32 168.56 -57.64 -104.04 -219.32	253.79
26 56 13 00-0341 EA 18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,762.73 180.66 -62.13 -112.22 -236.49	279.17
26 56 13 00-0342 EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,809.46 180.06 -63.24 -114.48 -240.96	304.54
26 56 13 00-0343 Round Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0296) Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0344 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	748.46 49.47 98.93 -26.13 -47.32 -99.58	126.90



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0345	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	799.38	139.58	
		For Bronze Or Satin Anodized Finish, Add	52.02		
		For Black Anodized Finish, Add	104.04		
		For >10 To 20, Deduct	-27.79		
		For >20 To 40, Deduct	-50.37		
		For >40, Deduct	-105.95		
26 56 13 00-0346	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	885.23	152.27	
		For Bronze Or Satin Anodized Finish, Add	58.07		
		For Black Anodized Finish, Add	116.14		
		For >10 To 20, Deduct	-30.84		
		For >20 To 40, Deduct	-55.88		
		For >40, Deduct	-117.56		
26 56 13 00-0347	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	916.15	152.27	
		For Bronze Or Satin Anodized Finish, Add	61.16		
		For Black Anodized Finish, Add	122.32		
		For >10 To 20, Deduct	-32.08		
		For >20 To 40, Deduct	-58.04		
		For >40, Deduct	-122.20		
26 56 13 00-0348	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	955.13	152.27	
		For Bronze Or Satin Anodized Finish, Add	65.06		
		For Black Anodized Finish, Add	130.12		
		For >10 To 20, Deduct	-33.64		
		For >20 To 40, Deduct	-60.77		
		For >40, Deduct	-128.04		
26 56 13 00-0349	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,098.81	164.96	
		For Bronze Or Satin Anodized Finish, Add	76.89		
		For Black Anodized Finish, Add	153.78		
		For >10 To 20, Deduct	-39.00		
		For >20 To 40, Deduct	-70.32		
		For >40, Deduct	-148.33		
26 56 13 00-0350	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,173.92	177.65	
		For Bronze Or Satin Anodized Finish, Add	81.86		
		For Black Anodized Finish, Add	163.72		
		For >10 To 20, Deduct	-41.63		
		For >20 To 40, Deduct	-75.07		
		For >40, Deduct	-158.32		
26 56 13 00-0351	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,382.27	177.65	
		For Bronze Or Satin Anodized Finish, Add	102.70		
		For Black Anodized Finish, Add	205.39		
		For >10 To 20, Deduct	-49.96		
		For >20 To 40, Deduct	-89.65		
		For >40, Deduct	-189.58		
26 56 13 00-0352	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,700.52	203.03	
		For Bronze Or Satin Anodized Finish, Add	129.45		
		For Black Anodized Finish, Add	258.89		
		For >10 To 20, Deduct	-61.93		
		For >20 To 40, Deduct	-110.92		
		For >40, Deduct	-234.78		
26 56 13 00-0353	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,931.40	228.41	
		For Bronze Or Satin Anodized Finish, Add	147.46		
		For Black Anodized Finish, Add	294.92		
		For >10 To 20, Deduct	-70.40		
		For >20 To 40, Deduct	-126.06		
		For >40, Deduct	-266.87		
26 56 13 00-0354	EA	30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial	2,177.39	228.41	
		For Bronze Or Satin Anodized Finish, Add	172.06		
		For Black Anodized Finish, Add	344.12		
		For >10 To 20, Deduct	-80.24		
		For >20 To 40, Deduct	-143.28		
		For >40, Deduct	-303.77		
26 56 13 00-0355		Round Tapered, Aluminum Area Light Poles (26 56 13 00-0295)			
26 56 13 00-0356		Round Tapered, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0355)			
26 56 13 00-0357	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	684.95	152.27	
		For Bronze Or Satin Anodized Finish, Add	38.04		
		For Black Anodized Finish, Add	76.08		
		For >10 To 20, Deduct	-22.83		
		For >20 To 40, Deduct	-41.86		
		For >40, Deduct	-87.52		
26 56 13 00-0358	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	766.63	177.65	
		For Bronze Or Satin Anodized Finish, Add	41.13		
		For Black Anodized Finish, Add	82.27		
		For >10 To 20, Deduct	-25.34		
		For >20 To 40, Deduct	-46.56		
		For >40, Deduct	-97.23		
26 56 13 00-0359	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	848.30	203.03	
		For Bronze Or Satin Anodized Finish, Add	44.22		
		For Black Anodized Finish, Add	88.45		
		For >10 To 20, Deduct	-27.84		
		For >20 To 40, Deduct	-51.26		
		For >40, Deduct	-106.94		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0360	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	942.07	228.41
			For Bronze Or Satin Anodized Finish, Add	48.53	
			For Black Anodized Finish, Add	97.05	
			For >10 To 20, Deduct	-30.83	
			For >20 To 40, Deduct	-56.81	
			For >40, Deduct	-118.47	
26 56 13 00-0361	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,034.50	253.79
			For Bronze Or Satin Anodized Finish, Add	52.69	
			For Black Anodized Finish, Add	105.39	
			For >10 To 20, Deduct	-33.77	
			For >20 To 40, Deduct	-62.26	
			For >40, Deduct	-129.80	
26 56 13 00-0362	EA		10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	801.57	177.65
			For Bronze Or Satin Anodized Finish, Add	44.63	
			For Black Anodized Finish, Add	89.25	
			For >10 To 20, Deduct	-26.73	
			For >20 To 40, Deduct	-49.00	
			For >40, Deduct	-102.47	
26 56 13 00-0363	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	903.41	203.03
			For Bronze Or Satin Anodized Finish, Add	49.74	
			For Black Anodized Finish, Add	99.47	
			For >10 To 20, Deduct	-30.05	
			For >20 To 40, Deduct	-55.12	
			For >40, Deduct	-115.21	
26 56 13 00-0364	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,001.21	228.41
			For Bronze Or Satin Anodized Finish, Add	54.44	
			For Black Anodized Finish, Add	108.88	
			For >10 To 20, Deduct	-33.20	
			For >20 To 40, Deduct	-60.95	
			For >40, Deduct	-127.34	
26 56 13 00-0365	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,187.42	279.17
			For Bronze Or Satin Anodized Finish, Add	62.91	
			For Black Anodized Finish, Add	125.82	
			For >10 To 20, Deduct	-39.12	
			For >20 To 40, Deduct	-71.95	
			For >40, Deduct	-150.20	
26 56 13 00-0366	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,271.78	304.54
			For Bronze Or Satin Anodized Finish, Add	66.27	
			For Black Anodized Finish, Add	132.54	
			For >10 To 20, Deduct	-41.73	
			For >20 To 40, Deduct	-76.84	
			For >40, Deduct	-160.31	
26 56 13 00-0367	EA		12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	953.15	203.03
			For Bronze Or Satin Anodized Finish, Add	54.71	
			For Black Anodized Finish, Add	109.42	
			For >10 To 20, Deduct	-32.04	
			For >20 To 40, Deduct	-58.60	
			For >40, Deduct	-122.67	
26 56 13 00-0368	EA		14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,059.01	228.41
			For Bronze Or Satin Anodized Finish, Add	60.22	
			For Black Anodized Finish, Add	120.44	
			For >10 To 20, Deduct	-35.51	
			For >20 To 40, Deduct	-64.99	
			For >40, Deduct	-136.01	
26 56 13 00-0369	EA		16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,174.29	253.79
			For Bronze Or Satin Anodized Finish, Add	66.67	
			For Black Anodized Finish, Add	133.34	
			For >10 To 20, Deduct	-39.36	
			For >20 To 40, Deduct	-72.05	
			For >40, Deduct	-150.77	
26 56 13 00-0370	EA		18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,265.38	279.17
			For Bronze Or Satin Anodized Finish, Add	70.71	
			For Black Anodized Finish, Add	141.41	
			For >10 To 20, Deduct	-42.24	
			For >20 To 40, Deduct	-77.41	
			For >40, Deduct	-161.89	
26 56 13 00-0371	EA		20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,375.28	304.54
			For Bronze Or Satin Anodized Finish, Add	76.62	
			For Black Anodized Finish, Add	153.24	
			For >10 To 20, Deduct	-45.87	
			For >20 To 40, Deduct	-84.09	
			For >40, Deduct	-175.84	
26 56 13 00-0372	EA		16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,306.02	253.79
			For Bronze Or Satin Anodized Finish, Add	79.85	
			For Black Anodized Finish, Add	159.69	
			For >10 To 20, Deduct	-44.63	
			For >20 To 40, Deduct	-81.27	
			For >40, Deduct	-170.52	
26 56 13 00-0373	EA		18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,433.40	279.17
			For Bronze Or Satin Anodized Finish, Add	87.51	
			For Black Anodized Finish, Add	175.01	
			For >10 To 20, Deduct	-48.96	
			For >20 To 40, Deduct	-89.17	
			For >40, Deduct	-187.09	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0374	EA	20'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,505.67 89.66 179.32 -51.09 -93.22 -195.40	304.54
26 56 13 00-0375	EA	23'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,726.82 101.62 203.24 -58.41 -106.67 -223.49	355.30
26 56 13 00-0376	EA	25'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,956.02 114.39 228.78 -66.06 -120.68 -252.80	406.06
26 56 13 00-0377	EA	18'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,565.14 100.68 201.36 -54.23 -98.39 -206.85	279.17
26 56 13 00-0378	EA	20'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,665.63 105.65 211.31 -57.49 -104.41 -219.39	304.54
26 56 13 00-0379	EA	23'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,853.17 114.26 228.51 -63.47 -115.51 -242.45	355.30
26 56 13 00-0380	EA	25'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,052.81 124.07 248.14 -69.93 -127.45 -267.32	406.06
26 56 13 00-0381	EA	28'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,212.46 134.96 269.92 -75.56 -137.61 -288.73	431.44
26 56 13 00-0382	EA	30'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,374.79 146.12 292.23 -81.29 -147.96 -310.54	456.81
26 56 13 00-0383	EA	23'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,978.18 126.76 253.52 -68.47 -124.26 -261.20	355.30
26 56 13 00-0384	EA	25'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,136.15 132.40 264.81 -73.26 -133.29 -279.82	406.06
26 56 13 00-0385	EA	28'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,302.52 143.96 287.93 -79.16 -143.92 -302.23	431.44
26 56 13 00-0386	EA	30'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,514.58 160.09 320.19 -86.88 -157.75 -331.51	456.81
26 56 13 00-0387	EA	33'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,600.44 166.14 332.29 -89.93 -163.25 -343.12	469.51

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0388	EA	35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,788.48	482.20
		For Bronze Or Satin Anodized Finish, Add	182.41	
		For Black Anodized Finish, Add	364.82	
		For >10 To 20, Deduct	-97.07	
		For >20 To 40, Deduct	-175.91	
		For >40, Deduct	-370.05	
26 56 13 00-0389	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,008.26	203.03
		For Bronze Or Satin Anodized Finish, Add	60.22	
		For Black Anodized Finish, Add	120.44	
		For >10 To 20, Deduct	-34.24	
		For >20 To 40, Deduct	-62.46	
		For >40, Deduct	-130.94	
26 56 13 00-0390	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,123.53	228.41
		For Bronze Or Satin Anodized Finish, Add	66.67	
		For Black Anodized Finish, Add	133.34	
		For >10 To 20, Deduct	-38.09	
		For >20 To 40, Deduct	-69.51	
		For >40, Deduct	-145.69	
26 56 13 00-0391	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,244.19	253.79
		For Bronze Or Satin Anodized Finish, Add	73.66	
		For Black Anodized Finish, Add	147.32	
		For >10 To 20, Deduct	-42.15	
		For >20 To 40, Deduct	-76.94	
		For >40, Deduct	-161.25	
26 56 13 00-0392	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,350.06	279.17
		For Bronze Or Satin Anodized Finish, Add	79.17	
		For Black Anodized Finish, Add	158.35	
		For >10 To 20, Deduct	-45.63	
		For >20 To 40, Deduct	-83.34	
		For >40, Deduct	-174.59	
26 56 13 00-0393	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,454.59	304.54
		For Bronze Or Satin Anodized Finish, Add	84.55	
		For Black Anodized Finish, Add	169.10	
		For >10 To 20, Deduct	-49.05	
		For >20 To 40, Deduct	-89.64	
		For >40, Deduct	-187.73	
26 56 13 00-0394	EA	16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,390.71	253.79
		For Bronze Or Satin Anodized Finish, Add	88.31	
		For Black Anodized Finish, Add	176.63	
		For >10 To 20, Deduct	-48.01	
		For >20 To 40, Deduct	-87.20	
		For >40, Deduct	-183.23	
26 56 13 00-0395	EA	18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,522.12	279.17
		For Bronze Or Satin Anodized Finish, Add	96.38	
		For Black Anodized Finish, Add	192.76	
		For >10 To 20, Deduct	-52.51	
		For >20 To 40, Deduct	-95.38	
		For >40, Deduct	-200.40	
26 56 13 00-0396	EA	20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,611.86	304.54
		For Bronze Or Satin Anodized Finish, Add	100.28	
		For Black Anodized Finish, Add	200.55	
		For >10 To 20, Deduct	-55.34	
		For >20 To 40, Deduct	-100.65	
		For >40, Deduct	-211.32	
26 56 13 00-0397	EA	23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,826.29	355.30
		For Bronze Or Satin Anodized Finish, Add	111.57	
		For Black Anodized Finish, Add	223.14	
		For >10 To 20, Deduct	-62.39	
		For >20 To 40, Deduct	-113.63	
		For >40, Deduct	-238.41	
26 56 13 00-0398	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,048.77	406.06
		For Bronze Or Satin Anodized Finish, Add	123.67	
		For Black Anodized Finish, Add	247.33	
		For >10 To 20, Deduct	-69.77	
		For >20 To 40, Deduct	-127.17	
		For >40, Deduct	-266.71	
26 56 13 00-0399	EA	23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,130.08	355.30
		For Bronze Or Satin Anodized Finish, Add	141.95	
		For Black Anodized Finish, Add	283.90	
		For >10 To 20, Deduct	-74.54	
		For >20 To 40, Deduct	-134.89	
		For >40, Deduct	-283.98	
26 56 13 00-0400	EA	25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,337.78	406.06
		For Bronze Or Satin Anodized Finish, Add	152.57	
		For Black Anodized Finish, Add	305.13	
		For >10 To 20, Deduct	-81.33	
		For >20 To 40, Deduct	-147.40	
		For >40, Deduct	-310.06	
26 56 13 00-0401	EA	28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,520.28	431.44
		For Bronze Or Satin Anodized Finish, Add	165.74	
		For Black Anodized Finish, Add	331.48	
		For >10 To 20, Deduct	-87.87	
		For >20 To 40, Deduct	-159.16	
		For >40, Deduct	-334.90	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0402	EA	30'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,679.92 176.63 353.26 -93.49 -169.32 -356.31	456.81
26 56 13 00-0403	EA	33'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,835.68 189.67 379.33 -99.34 -179.72 -378.40	469.51
26 56 13 00-0404	EA	35'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,969.95 200.56 401.11 -104.33 -188.61 -397.27	482.20
26 56 13 00-0405	EA	37'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,082.69 209.29 418.58 -108.46 -195.99 -412.92	494.89
26 56 13 00-0406	EA	39'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,296.26 228.11 456.22 -116.62 -210.44 -443.68	507.57
26 56 13 00-0407	EA	28'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,100.97 223.81 447.62 -111.10 -199.81 -422.00	431.44
26 56 13 00-0408	EA	30'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,352.02 243.84 487.68 -120.38 -216.37 -457.12	456.81
26 56 13 00-0409	EA	33'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,534.66 259.57 519.13 -127.30 -228.65 -483.25	469.51
26 56 13 00-0410	EA	35'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,670.27 270.59 541.17 -132.34 -237.63 -502.32	482.20
26 56 13 00-0411	EA	37'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,740.00 275.02 550.05 -134.75 -242.00 -511.51	494.89
26 56 13 00-0412	EA	39'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,976.42 296.13 592.25 -143.83 -258.05 -545.71	507.57
26 56 13 00-0413	EA	28'	High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,916.82 205.39 410.79 -103.73 -186.92 -394.38	431.44
26 56 13 00-0414	EA	30'	High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,143.67 223.00 446.01 -112.04 -201.78 -425.87	456.81
26 56 13 00-0415	EA	33'	High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,229.53 229.05 458.10 -115.10 -207.29 -437.48	469.51

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0416	EA	35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,469.99	482.20
		For Bronze Or Satin Anodized Finish, Add	250.56	
		For Black Anodized Finish, Add	501.12	
		For >10 To 20, Deduct	-124.33	
		For >20 To 40, Deduct	-223.61	
		For >40, Deduct	-472.28	
26 56 13 00-0417	EA	37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,581.39	494.89
		For Bronze Or Satin Anodized Finish, Add	259.16	
		For Black Anodized Finish, Add	518.32	
		For >10 To 20, Deduct	-128.41	
		For >20 To 40, Deduct	-230.90	
		For >40, Deduct	-487.72	
26 56 13 00-0418	EA	39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,819.15	507.57
		For Bronze Or Satin Anodized Finish, Add	280.40	
		For Black Anodized Finish, Add	560.80	
		For >10 To 20, Deduct	-137.54	
		For >20 To 40, Deduct	-247.04	
		For >40, Deduct	-522.12	
26 56 13 00-0419	EA	28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,758.29	431.44
		For Bronze Or Satin Anodized Finish, Add	289.54	
		For Black Anodized Finish, Add	579.08	
		For >10 To 20, Deduct	-137.39	
		For >20 To 40, Deduct	-245.82	
		For >40, Deduct	-520.60	
26 56 13 00-0420	EA	30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,973.04	456.81
		For Bronze Or Satin Anodized Finish, Add	305.94	
		For Black Anodized Finish, Add	611.88	
		For >10 To 20, Deduct	-145.22	
		For >20 To 40, Deduct	-259.84	
		For >40, Deduct	-550.27	
26 56 13 00-0421	EA	33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,158.37	469.51
		For Bronze Or Satin Anodized Finish, Add	321.94	
		For Black Anodized Finish, Add	643.87	
		For >10 To 20, Deduct	-152.25	
		For >20 To 40, Deduct	-272.31	
		For >40, Deduct	-576.81	
26 56 13 00-0422	EA	35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,452.60	482.20
		For Bronze Or Satin Anodized Finish, Add	348.82	
		For Black Anodized Finish, Add	697.64	
		For >10 To 20, Deduct	-163.64	
		For >20 To 40, Deduct	-292.39	
		For >40, Deduct	-619.67	
26 56 13 00-0423	EA	37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,507.54	494.89
		For Bronze Or Satin Anodized Finish, Add	351.78	
		For Black Anodized Finish, Add	703.55	
		For >10 To 20, Deduct	-165.46	
		For >20 To 40, Deduct	-295.73	
		For >40, Deduct	-626.64	
26 56 13 00-0424	EA	39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,800.42	507.57
		For Bronze Or Satin Anodized Finish, Add	378.53	
		For Black Anodized Finish, Add	757.05	
		For >10 To 20, Deduct	-176.79	
		For >20 To 40, Deduct	-315.73	
		For >40, Deduct	-669.31	
26 56 13 00-0425	EA	48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,930.35	761.36
		For Bronze Or Satin Anodized Finish, Add	440.76	
		For Black Anodized Finish, Add	881.53	
		For >10 To 20, Deduct	-214.37	
		For >20 To 40, Deduct	-384.67	
		For >40, Deduct	-813.42	
26 56 13 00-0426	EA	50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	6,097.03	761.36
		For Bronze Or Satin Anodized Finish, Add	457.43	
		For Black Anodized Finish, Add	914.86	
		For >10 To 20, Deduct	-221.04	
		For >20 To 40, Deduct	-396.34	
		For >40, Deduct	-838.42	
26 56 13 00-0427		Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0355)		
26 56 13 00-0428	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	973.95	152.27
		For Bronze, Satin Or Black Anodized Finish, Add	100.41	
		For >10 To 20, Deduct	-34.39	
		For >20 To 40, Deduct	-62.09	
		For >40, Deduct	-130.87	
26 56 13 00-0429	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,052.94	177.65
		For Bronze, Satin Or Black Anodized Finish, Add	104.65	
		For >10 To 20, Deduct	-36.79	
		For >20 To 40, Deduct	-66.60	
		For >40, Deduct	-140.18	
26 56 13 00-0430	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,133.27	203.03
		For Bronze, Satin Or Black Anodized Finish, Add	109.08	
		For >10 To 20, Deduct	-39.24	
		For >20 To 40, Deduct	-71.21	
		For >40, Deduct	-149.69	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0431	EA	14'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,216.28 113.92 -41.80 -76.00 -159.60	228.41
26 56 13 00-0432	EA	16'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,297.96 118.56 -44.30 -80.71 -169.32	253.79
26 56 13 00-0433	EA	10'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,069.07 107.07 -37.43 -67.73 -142.60	177.65
26 56 13 00-0434	EA	12'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,152.09 111.90 -39.99 -72.53 -152.51	203.03
26 56 13 00-0435	EA	14'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,237.79 117.15 -42.66 -77.51 -162.83	228.41
26 56 13 00-0436	EA	16'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,322.16 122.19 -45.27 -82.40 -172.95	253.79
26 56 13 00-0437	EA	18'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,423.99 129.85 -48.58 -88.51 -185.68	279.17
26 56 13 00-0438	EA	20'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,513.74 135.70 -51.41 -93.78 -196.61	304.54
26 56 13 00-0439	EA	12'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,204.51 119.77 -42.09 -76.19 -160.37	203.03
26 56 13 00-0440	EA	14'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,296.93 126.02 -45.03 -81.65 -171.70	228.41
26 56 13 00-0441	EA	16'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,405.50 134.69 -48.61 -88.23 -185.45	253.79
26 56 13 00-0442	EA	18'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,500.61 141.34 -51.65 -93.88 -197.18	279.17
26 56 13 00-0443	EA	20'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,613.21 150.62 -55.39 -100.74 -211.53	304.54
26 56 13 00-0444	EA	16'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,482.11 146.18 -51.67 -93.60 -196.94	253.79
26 56 13 00-0445	EA	18'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,604.12 156.87 -55.79 -101.12 -212.70	279.17
26 56 13 00-0446	EA	20'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,696.55 163.12 -58.73 -106.58 -224.03	304.54
26 56 13 00-0447	EA	12'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,246.18 126.02 -43.76 -79.11 -166.62	203.03

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0448	EA		14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,360.11	228.41
			For Bronze, Satin Or Black Anodized Finish, Add	135.50	
			For >10 To 20, Deduct	-47.55	
			For >20 To 40, Deduct	-86.07	
			For >40, Deduct	-181.18	
26 56 13 00-0449	EA		16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,482.11	253.79
			For Bronze, Satin Or Black Anodized Finish, Add	146.18	
			For >10 To 20, Deduct	-51.67	
			For >20 To 40, Deduct	-93.60	
			For >40, Deduct	-196.94	
26 56 13 00-0450	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,587.99	279.17
			For Bronze, Satin Or Black Anodized Finish, Add	154.45	
			For >10 To 20, Deduct	-55.14	
			For >20 To 40, Deduct	-99.99	
			For >40, Deduct	-210.28	
26 56 13 00-0451	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,703.27	304.54
			For Bronze, Satin Or Black Anodized Finish, Add	164.13	
			For >10 To 20, Deduct	-58.99	
			For >20 To 40, Deduct	-107.05	
			For >40, Deduct	-225.04	
26 56 13 00-0452	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,569.49	253.79
			For Bronze, Satin Or Black Anodized Finish, Add	159.29	
			For >10 To 20, Deduct	-55.17	
			For >20 To 40, Deduct	-99.71	
			For >40, Deduct	-210.05	
26 56 13 00-0453	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,702.24	279.17
			For Bronze, Satin Or Black Anodized Finish, Add	171.59	
			For >10 To 20, Deduct	-59.71	
			For >20 To 40, Deduct	-107.99	
			For >40, Deduct	-227.42	
26 56 13 00-0454	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,801.40	304.54
			For Bronze, Satin Or Black Anodized Finish, Add	178.85	
			For >10 To 20, Deduct	-62.92	
			For >20 To 40, Deduct	-113.92	
			For >40, Deduct	-239.76	
26 56 13 00-0455 Round Tapered, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0355)					
Note: Includes rubberized undercoating on embedded portion.					
26 56 13 00-0456	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	651.67	126.90
			For Bronze Or Satin Anodized Finish, Add	39.79	
			For Black Anodized Finish, Add	79.58	
			For >10 To 20, Deduct	-22.26	
			For >20 To 40, Deduct	-40.54	
			For >40, Deduct	-85.06	
26 56 13 00-0457	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	689.31	126.90
			For Bronze Or Satin Anodized Finish, Add	43.55	
			For Black Anodized Finish, Add	87.10	
			For >10 To 20, Deduct	-23.77	
			For >20 To 40, Deduct	-43.18	
			For >40, Deduct	-90.71	
26 56 13 00-0458	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	745.61	139.58
			For Bronze Or Satin Anodized Finish, Add	46.64	
			For Black Anodized Finish, Add	93.29	
			For >10 To 20, Deduct	-25.64	
			For >20 To 40, Deduct	-46.61	
			For >40, Deduct	-97.88	
26 56 13 00-0459	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	792.48	152.27
			For Bronze Or Satin Anodized Finish, Add	48.79	
			For Black Anodized Finish, Add	97.59	
			For >10 To 20, Deduct	-27.13	
			For >20 To 40, Deduct	-49.38	
			For >40, Deduct	-103.65	
26 56 13 00-0460	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	840.88	152.27
			For Bronze Or Satin Anodized Finish, Add	53.63	
			For Black Anodized Finish, Add	107.27	
			For >10 To 20, Deduct	-29.07	
			For >20 To 40, Deduct	-52.77	
			For >40, Deduct	-110.91	
26 56 13 00-0461	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	781.90	139.58
			For Bronze Or Satin Anodized Finish, Add	50.27	
			For Black Anodized Finish, Add	100.55	
			For >10 To 20, Deduct	-27.09	
			For >20 To 40, Deduct	-49.15	
			For >40, Deduct	-103.33	
26 56 13 00-0462	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	844.91	152.27
			For Bronze Or Satin Anodized Finish, Add	54.04	
			For Black Anodized Finish, Add	108.07	
			For >10 To 20, Deduct	-29.23	
			For >20 To 40, Deduct	-53.05	
			For >40, Deduct	-111.51	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 56 13 00-0463	EA 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	871.79 56.73 113.45 -30.30 -54.93 -115.54		152.27
26 56 13 00-0464	EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	940.20 61.03 122.05 -32.66 -59.22 -124.53		164.96
26 56 13 00-0465	EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,003.20 64.79 129.58 -34.80 -63.12 -132.72		177.65
26 56 13 00-0466	EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	949.76 64.52 129.04 -33.42 -60.39 -127.24		152.27
26 56 13 00-0467	EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,026.23 69.63 139.26 -36.10 -65.24 -137.44		164.96
26 56 13 00-0468	EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,095.95 74.07 148.13 -38.51 -69.61 -146.63		177.65
26 56 13 00-0469	EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,136.45 80.65 161.30 -40.51 -72.95 -153.97		164.96
26 56 13 00-0470	EA 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,463.95 105.79 211.58 -52.47 -94.36 -199.29		203.03
26 56 13 00-0471	EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,615.84 120.98 241.96 -58.54 -104.99 -222.07		203.03
26 56 13 00-0472	EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,796.98 134.02 268.03 -65.03 -116.65 -246.71		228.41
26 56 13 00-0473	EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,962.31 150.55 301.10 -71.64 -128.23 -271.51		228.41
26 56 13 00-0474	Square Straight, Aluminum Area Light Poles (26 56 13 00-0295)			
26 56 13 00-0475	Square Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0474)			
26 56 13 00-0476	EA 8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	859.69 55.52 111.03 -29.82 -54.09 -113.73		152.27
26 56 13 00-0477	EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	938.68 58.34 116.68 -32.22 -58.60 -123.04		177.65

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0478	EA	12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,028.42	203.03
		For Bronze Or Satin Anodized Finish, Add	62.24	
		For Black Anodized Finish, Add	124.47	
		For >10 To 20, Deduct	-35.05	
		For >20 To 40, Deduct	-63.87	
		For >40, Deduct	-133.96	
26 56 13 00-0479	EA	14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,116.81	228.41
		For Bronze Or Satin Anodized Finish, Add	66.00	
		For Black Anodized Finish, Add	132.00	
		For >10 To 20, Deduct	-37.82	
		For >20 To 40, Deduct	-69.04	
		For >40, Deduct	-144.68	
26 56 13 00-0480	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,166.40	241.09
		For Bronze Or Satin Anodized Finish, Add	68.42	
		For Black Anodized Finish, Add	136.84	
		For >10 To 20, Deduct	-39.42	
		For >20 To 40, Deduct	-72.00	
		For >40, Deduct	-150.85	
26 56 13 00-0481	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,215.96	253.79
		For Bronze Or Satin Anodized Finish, Add	70.84	
		For Black Anodized Finish, Add	141.68	
		For >10 To 20, Deduct	-41.02	
		For >20 To 40, Deduct	-74.97	
		For >40, Deduct	-157.02	
26 56 13 00-0482	EA	18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,312.43	279.17
		For Bronze Or Satin Anodized Finish, Add	75.41	
		For Black Anodized Finish, Add	150.82	
		For >10 To 20, Deduct	-44.12	
		For >20 To 40, Deduct	-80.70	
		For >40, Deduct	-168.95	
26 56 13 00-0483	EA	20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,420.99	304.54
		For Bronze Or Satin Anodized Finish, Add	81.19	
		For Black Anodized Finish, Add	162.38	
		For >10 To 20, Deduct	-47.70	
		For >20 To 40, Deduct	-87.29	
		For >40, Deduct	-182.69	
26 56 13 00-0484	EA	16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,308.71	253.79
		For Bronze Or Satin Anodized Finish, Add	80.11	
		For Black Anodized Finish, Add	160.23	
		For >10 To 20, Deduct	-44.73	
		For >20 To 40, Deduct	-81.46	
		For >40, Deduct	-170.93	
26 56 13 00-0485	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,407.86	279.17
		For Bronze Or Satin Anodized Finish, Add	84.95	
		For Black Anodized Finish, Add	169.91	
		For >10 To 20, Deduct	-47.94	
		For >20 To 40, Deduct	-87.38	
		For >40, Deduct	-183.26	
26 56 13 00-0486	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,524.49	304.54
		For Bronze Or Satin Anodized Finish, Add	91.54	
		For Black Anodized Finish, Add	183.08	
		For >10 To 20, Deduct	-51.84	
		For >20 To 40, Deduct	-94.53	
		For >40, Deduct	-198.22	
26 56 13 00-0487	EA	15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,569.66	241.09
		For Bronze Or Satin Anodized Finish, Add	108.75	
		For Black Anodized Finish, Add	217.49	
		For >10 To 20, Deduct	-55.55	
		For >20 To 40, Deduct	-100.23	
		For >40, Deduct	-211.34	
26 56 13 00-0488	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,910.28	304.54
		For Bronze Or Satin Anodized Finish, Add	130.12	
		For Black Anodized Finish, Add	260.24	
		For >10 To 20, Deduct	-67.27	
		For >20 To 40, Deduct	-121.54	
		For >40, Deduct	-256.09	
26 56 13 00-0489	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	2,281.32	406.06
		For Bronze Or Satin Anodized Finish, Add	146.92	
		For Black Anodized Finish, Add	293.84	
		For >10 To 20, Deduct	-79.07	
		For >20 To 40, Deduct	-143.45	
		For >40, Deduct	-301.59	
26 56 13 00-0490	EA	20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,607.83	304.54
		For Bronze Or Satin Anodized Finish, Add	99.87	
		For Black Anodized Finish, Add	199.75	
		For >10 To 20, Deduct	-55.18	
		For >20 To 40, Deduct	-100.37	
		For >40, Deduct	-210.72	
26 56 13 00-0491	EA	20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,072.92	304.54
		For Bronze Or Satin Anodized Finish, Add	146.38	
		For Black Anodized Finish, Add	292.77	
		For >10 To 20, Deduct	-73.78	
		For >20 To 40, Deduct	-132.92	
		For >40, Deduct	-280.48	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0492	EA	25'	High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,429.18 161.71 323.41 -84.99 -153.80 -323.77	406.06
26 56 13 00-0493	EA	20'	High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,328.32 171.92 343.85 -84.00 -150.80 -318.79	304.54
26 56 13 00-0494	EA	25'	High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,762.54 195.04 390.09 -98.32 -177.14 -373.78	406.06
26 56 13 00-0495	EA	30'	High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,210.88 229.72 459.45 -114.73 -206.49 -435.95	456.81
26 56 13 00-0496	Square Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0474) Note: Includes rubberized undercoating on embedded portion.				
26 56 13 00-0497	EA	10'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	783.40 52.96 105.92 -27.53 -49.76 -104.82	126.90
26 56 13 00-0498	EA	12'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	877.34 59.82 119.63 -30.91 -55.83 -117.64	139.58
26 56 13 00-0499	EA	14'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	930.94 62.64 125.28 -32.67 -59.08 -124.41	152.27
26 56 13 00-0500	EA	15'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	964.54 66.00 132.00 -34.01 -61.43 -129.45	152.27
26 56 13 00-0501	EA	16'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,006.21 70.17 140.33 -35.68 -64.34 -135.70	152.27
26 56 13 00-0502	EA	18'	High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,174.09 84.42 168.83 -42.01 -75.59 -159.62	164.96
26 56 13 00-0503	EA	20'	High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,257.26 90.20 180.39 -44.96 -80.90 -170.82	177.65
26 56 13 00-0504	EA	20'	High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,468.30 111.30 222.60 -53.40 -95.68 -202.48	177.65
26 56 13 00-0505	EA	25'	High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,688.43 128.24 256.47 -61.45 -110.07 -232.96	203.03

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0506	EA		25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial	2,160.24	203.03
			For Bronze Or Satin Anodized Finish, Add	175.42	
			For Black Anodized Finish, Add	350.84	
			For >10 To 20, Deduct	-80.32	
			For >20 To 40, Deduct	-143.10	
			For >40, Deduct	-303.73	
26 56 13 00-0507			Factory Accessories For Aluminum Area Light Poles (26 56 13 00-0295)		
26 56 13 00-0508	EA		1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles	44.31	
26 56 13 00-0509	EA		Extra Handhole For Aluminum Area Light Poles	50.10	
26 56 13 00-0510	EA		Festoon Outlet Provision For Aluminum Area Light Poles	51.32	
			Note: Excludes electrical outlet.		
26 56 13 00-0511	EA		Vibration Dampener For Aluminum Area Light Poles	67.03	
26 56 13 00-0512			Fiberglass Area Light Poles (26 56 13 00-0177)		
			Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
26 56 13 00-0513			Round Tapered, Fiberglass Area Light Poles (26 56 13 00-0512)		
26 56 13 00-0514			Round Tapered, Fiberglass Area Light Poles, Anchor Base (26 56 13 00-0513)		
26 56 13 00-0515	EA		10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,090.13	177.65
			For >10 To 20, Deduct	-38.28	
			For >20 To 40, Deduct	-69.20	
			For >40, Deduct	-145.75	
26 56 13 00-0516	EA		12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,184.63	203.03
			For >10 To 20, Deduct	-41.29	
			For >20 To 40, Deduct	-74.80	
			For >40, Deduct	-157.39	
26 56 13 00-0517	EA		14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,280.37	228.41
			For >10 To 20, Deduct	-44.36	
			For >20 To 40, Deduct	-80.49	
			For >40, Deduct	-169.22	
26 56 13 00-0518	EA		16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,374.87	253.79
			For >10 To 20, Deduct	-47.38	
			For >20 To 40, Deduct	-86.09	
			For >40, Deduct	-180.85	
26 56 13 00-0519	EA		18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,491.86	279.17
			For >10 To 20, Deduct	-51.30	
			For >20 To 40, Deduct	-93.26	
			For >40, Deduct	-195.86	
26 56 13 00-0520	EA		20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,588.86	304.54
			For >10 To 20, Deduct	-54.42	
			For >20 To 40, Deduct	-99.04	
			For >40, Deduct	-207.87	
26 56 13 00-0521	EA		22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,735.36	355.30
			For >10 To 20, Deduct	-58.76	
			For >20 To 40, Deduct	-107.26	
			For >40, Deduct	-224.77	
26 56 13 00-0522	EA		24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,880.61	406.06
			For >10 To 20, Deduct	-63.04	
			For >20 To 40, Deduct	-115.40	
			For >40, Deduct	-241.49	
26 56 13 00-0523	EA		26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,981.84	406.06
			For >10 To 20, Deduct	-67.09	
			For >20 To 40, Deduct	-122.49	
			For >40, Deduct	-256.67	
26 56 13 00-0524	EA		28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,121.34	431.44
			For >10 To 20, Deduct	-71.91	
			For >20 To 40, Deduct	-131.24	
			For >40, Deduct	-275.06	
26 56 13 00-0525	EA		30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,260.83	456.81
			For >10 To 20, Deduct	-76.73	
			For >20 To 40, Deduct	-139.99	
			For >40, Deduct	-293.44	
26 56 13 00-0526	EA		10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,205.10	177.65
			For >10 To 20, Deduct	-42.87	
			For >20 To 40, Deduct	-77.25	
			For >40, Deduct	-163.00	
26 56 13 00-0527	EA		12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,277.11	203.03
			For >10 To 20, Deduct	-44.99	
			For >20 To 40, Deduct	-81.28	
			For >40, Deduct	-171.26	
26 56 13 00-0528	EA		14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,350.35	228.41
			For >10 To 20, Deduct	-47.16	
			For >20 To 40, Deduct	-85.39	
			For >40, Deduct	-179.71	
26 56 13 00-0529	EA		16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,426.11	253.79
			For >10 To 20, Deduct	-49.43	
			For >20 To 40, Deduct	-89.68	
			For >40, Deduct	-188.54	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0530	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,508.11	279.17
		For >10 To 20, Deduct	-51.95	
		For >20 To 40, Deduct	-94.40	
		For >40, Deduct	-198.30	
26 56 13 00-0531	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,588.86	304.54
		For >10 To 20, Deduct	-54.42	
		For >20 To 40, Deduct	-99.04	
		For >40, Deduct	-207.87	
26 56 13 00-0532	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,720.37	355.30
		For >10 To 20, Deduct	-58.16	
		For >20 To 40, Deduct	-106.21	
		For >40, Deduct	-222.53	
26 56 13 00-0533	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,880.61	406.06
		For >10 To 20, Deduct	-63.04	
		For >20 To 40, Deduct	-115.40	
		For >40, Deduct	-241.49	
26 56 13 00-0534	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,923.10	406.06
		For >10 To 20, Deduct	-64.74	
		For >20 To 40, Deduct	-118.37	
		For >40, Deduct	-247.86	
26 56 13 00-0535	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,017.61	431.44
		For >10 To 20, Deduct	-67.76	
		For >20 To 40, Deduct	-123.98	
		For >40, Deduct	-259.50	
26 56 13 00-0536	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,112.11	456.81
		For >10 To 20, Deduct	-70.78	
		For >20 To 40, Deduct	-129.57	
		For >40, Deduct	-271.13	
26 56 13 00-0537	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,373.81	177.65
		For >10 To 20, Deduct	-49.62	
		For >20 To 40, Deduct	-89.06	
		For >40, Deduct	-188.31	
26 56 13 00-0538	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,463.31	203.03
		For >10 To 20, Deduct	-52.44	
		For >20 To 40, Deduct	-94.31	
		For >40, Deduct	-199.19	
26 56 13 00-0539	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,552.81	228.41
		For >10 To 20, Deduct	-55.26	
		For >20 To 40, Deduct	-99.56	
		For >40, Deduct	-210.08	
26 56 13 00-0540	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,643.56	253.79
		For >10 To 20, Deduct	-58.13	
		For >20 To 40, Deduct	-104.90	
		For >40, Deduct	-221.16	
26 56 13 00-0541	EA	18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,739.31	279.17
		For >10 To 20, Deduct	-61.20	
		For >20 To 40, Deduct	-110.59	
		For >40, Deduct	-232.98	
26 56 13 00-0542	EA	20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,842.55	304.54
		For >10 To 20, Deduct	-64.57	
		For >20 To 40, Deduct	-116.80	
		For >40, Deduct	-245.93	
26 56 13 00-0543	EA	22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,007.80	355.30
		For >10 To 20, Deduct	-69.65	
		For >20 To 40, Deduct	-126.33	
		For >40, Deduct	-265.64	
26 56 13 00-0544	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,174.29	406.06
		For >10 To 20, Deduct	-74.79	
		For >20 To 40, Deduct	-135.96	
		For >40, Deduct	-285.54	
26 56 13 00-0545	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,239.28	406.06
		For >10 To 20, Deduct	-77.39	
		For >20 To 40, Deduct	-140.51	
		For >40, Deduct	-295.29	
26 56 13 00-0546	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,392.52	431.44
		For >10 To 20, Deduct	-82.76	
		For >20 To 40, Deduct	-150.22	
		For >40, Deduct	-315.73	
26 56 13 00-0547	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,517.02	456.81
		For >10 To 20, Deduct	-86.98	
		For >20 To 40, Deduct	-157.92	
		For >40, Deduct	-331.87	
26 56 13 00-0548	EA	32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,616.12	469.51
		For >10 To 20, Deduct	-90.56	
		For >20 To 40, Deduct	-164.35	
		For >40, Deduct	-345.47	
26 56 13 00-0549	EA	34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,715.24	482.20
		For >10 To 20, Deduct	-94.14	
		For >20 To 40, Deduct	-170.78	
		For >40, Deduct	-359.07	

26 56 13 00-0550 Round Tapered, Fiberglass Area Light Poles, Direct Burial (26 56 13 00-0513)

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0551	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	673.69	126.90
		For >10 To 20, Deduct	-23.14	
		For >20 To 40, Deduct	-42.08	
		For >40, Deduct	-88.36	
26 56 13 00-0552	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	722.82	139.58
		For >10 To 20, Deduct	-24.73	
		For >20 To 40, Deduct	-45.01	
		For >40, Deduct	-94.46	
26 56 13 00-0553	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	770.68	152.27
		For >10 To 20, Deduct	-26.26	
		For >20 To 40, Deduct	-47.86	
		For >40, Deduct	-100.38	
26 56 13 00-0554	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	791.93	152.27
		For >10 To 20, Deduct	-27.11	
		For >20 To 40, Deduct	-49.34	
		For >40, Deduct	-103.56	
26 56 13 00-0555	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	852.31	164.96
		For >10 To 20, Deduct	-29.14	
		For >20 To 40, Deduct	-53.06	
		For >40, Deduct	-111.35	
26 56 13 00-0556	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	902.67	177.65
		For >10 To 20, Deduct	-30.78	
		For >20 To 40, Deduct	-56.08	
		For >40, Deduct	-117.64	
26 56 13 00-0557	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	956.80	190.34
		For >10 To 20, Deduct	-32.56	
		For >20 To 40, Deduct	-59.36	
		For >40, Deduct	-124.49	
26 56 13 00-0558	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,017.17	203.03
		For >10 To 20, Deduct	-34.60	
		For >20 To 40, Deduct	-63.08	
		For >40, Deduct	-132.27	
26 56 13 00-0559	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,137.14	203.03
		For >10 To 20, Deduct	-39.39	
		For >20 To 40, Deduct	-71.48	
		For >40, Deduct	-150.27	
26 56 13 00-0560	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,282.49	215.72
		For >10 To 20, Deduct	-44.83	
		For >20 To 40, Deduct	-81.15	
		For >40, Deduct	-170.80	
26 56 13 00-0561	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,427.83	228.41
		For >10 To 20, Deduct	-50.26	
		For >20 To 40, Deduct	-90.81	
		For >40, Deduct	-191.33	
26 56 13 00-0562	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	788.67	126.90
		For >10 To 20, Deduct	-27.74	
		For >20 To 40, Deduct	-50.13	
		For >40, Deduct	-105.61	
26 56 13 00-0563	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	844.04	139.58
		For >10 To 20, Deduct	-29.57	
		For >20 To 40, Deduct	-53.50	
		For >40, Deduct	-112.65	
26 56 13 00-0564	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	899.40	152.27
		For >10 To 20, Deduct	-31.41	
		For >20 To 40, Deduct	-56.87	
		For >40, Deduct	-119.68	
26 56 13 00-0565	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	930.64	152.27
		For >10 To 20, Deduct	-32.66	
		For >20 To 40, Deduct	-59.05	
		For >40, Deduct	-124.37	
26 56 13 00-0566	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	986.03	164.96
		For >10 To 20, Deduct	-34.49	
		For >20 To 40, Deduct	-62.42	
		For >40, Deduct	-131.41	
26 56 13 00-0567	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,041.39	177.65
		For >10 To 20, Deduct	-36.33	
		For >20 To 40, Deduct	-65.79	
		For >40, Deduct	-138.44	
26 56 13 00-0568	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,096.76	190.34
		For >10 To 20, Deduct	-38.16	
		For >20 To 40, Deduct	-69.16	
		For >40, Deduct	-145.48	
26 56 13 00-0569	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,180.88	203.03
		For >10 To 20, Deduct	-41.14	
		For >20 To 40, Deduct	-74.54	
		For >40, Deduct	-156.83	
26 56 13 00-0570	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,297.10	203.03
		For >10 To 20, Deduct	-45.79	
		For >20 To 40, Deduct	-82.68	
		For >40, Deduct	-174.26	
26 56 13 00-0571	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,439.96	215.72
		For >10 To 20, Deduct	-51.13	
		For >20 To 40, Deduct	-92.17	
		For >40, Deduct	-194.42	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0572	EA	30'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,581.55	228.41
			For >10 To 20, Deduct	-56.41	
			For >20 To 40, Deduct	-101.57	
			For >40, Deduct	-214.39	
26 56 13 00-0573	EA	10'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	889.89	126.90
			For >10 To 20, Deduct	-31.79	
			For >20 To 40, Deduct	-57.22	
			For >40, Deduct	-120.79	
26 56 13 00-0574	EA	12'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	937.77	139.58
			For >10 To 20, Deduct	-33.32	
			For >20 To 40, Deduct	-60.06	
			For >40, Deduct	-126.71	
26 56 13 00-0575	EA	14'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	984.38	152.27
			For >10 To 20, Deduct	-34.81	
			For >20 To 40, Deduct	-62.82	
			For >40, Deduct	-132.43	
26 56 13 00-0576	EA	16'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,005.63	152.27
			For >10 To 20, Deduct	-35.66	
			For >20 To 40, Deduct	-64.30	
			For >40, Deduct	-135.62	
26 56 13 00-0577	EA	18'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,052.26	164.96
			For >10 To 20, Deduct	-37.14	
			For >20 To 40, Deduct	-67.06	
			For >40, Deduct	-141.34	
26 56 13 00-0578	EA	20'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,100.13	177.65
			For >10 To 20, Deduct	-38.68	
			For >20 To 40, Deduct	-69.90	
			For >40, Deduct	-147.25	
26 56 13 00-0579	EA	22'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,190.49	190.34
			For >10 To 20, Deduct	-41.91	
			For >20 To 40, Deduct	-75.72	
			For >40, Deduct	-159.54	
26 56 13 00-0580	EA	24'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,295.85	203.03
			For >10 To 20, Deduct	-45.74	
			For >20 To 40, Deduct	-82.59	
			For >40, Deduct	-174.07	
26 56 13 00-0581	EA	26'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,368.34	203.03
			For >10 To 20, Deduct	-48.64	
			For >20 To 40, Deduct	-87.66	
			For >40, Deduct	-184.95	
26 56 13 00-0582	EA	28'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,467.45	215.72
			For >10 To 20, Deduct	-52.23	
			For >20 To 40, Deduct	-94.09	
			For >40, Deduct	-198.55	
26 56 13 00-0583	EA	30'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,566.55	228.41
			For >10 To 20, Deduct	-55.81	
			For >20 To 40, Deduct	-100.52	
			For >40, Deduct	-212.14	
26 56 13 00-0584	Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0512)				
26 56 13 00-0585	EA		Open Or Capped Top For Fiberglass Area Light Poles.....	44.31	
26 56 13 00-0586	EA		Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	44.31	
26 56 13 00-0587	EA		Smooth Shaft Finish For Fiberglass Area Light Poles.....	84.07	
26 56 13 00-0588	EA		Festoon Outlet Provision For Fiberglass Area Light Poles.....	88.62	
			Note: Excludes electrical outlet.		
26 56 13 00-0589	EA		Vibration Dampener For Fiberglass Area Light Poles.....	111.34	
26 56 13 00-0590	Concrete Area Light Poles (26 56 13 00-0177)				
26 56 13 00-0591	Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0590)				
26 56 13 00-0592	EA	28'	High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	1,879.80	431.44
26 56 13 00-0593	EA	30'	High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	1,981.41	456.81
26 56 13 00-0594	EA	33'	High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,056.44	469.51
26 56 13 00-0595	EA	36'	High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,582.96	482.20
26 56 13 00-0596	EA	38'	High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,876.48	507.57
26 56 13 00-0597	EA	43'	High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,552.21	659.84
26 56 13 00-0598	EA	47'	High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,250.01	812.11
26 56 13 00-0599	EA	27'	High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,210.94	431.44
			Note: Polished brown with acrylic coating finish.		
26 56 13 00-0600	EA	30'	High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,870.44	456.81
			Note: Polished brown with acrylic coating finish.		
26 56 13 00-0601	EA		Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....	448.09	152.27
26 56 13 00-0602	EA		13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....	2,526.46	304.44
26 56 13 00-0603	EA		Pole Base Cover For All Octagon Poles.....	174.37	62.13
26 56 13 00-0604	EA		Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	356.49	124.25
26 56 13 00-0605	Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0590)				
			Note: Round or square.		
26 56 13 00-0606	EA	13'	High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,085.89	203.03
26 56 13 00-0607	EA	16'	High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,350.78	253.79
26 56 13 00-0608	EA	18'	High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,589.58	304.54

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0609	EA	30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	3,599.95	456.81
26 56 13 00-0610	EA	35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	4,162.69	482.20
26 56 13 00-0611	EA	40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	4,771.68	507.57
26 56 13 00-0612	EA	45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	5,513.24	659.84
26 56 13 00-0613		Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0590)		
26 56 13 00-0614	EA	60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22).....	10,730.69	1,142.04
26 56 13 00-0615	EA	70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24).....	12,779.75	1,405.79
26 56 13 00-0616	EA	80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26).....	15,200.60	1,899.05
26 56 13 00-0617		Treated Wood Area Light Poles (26 56 13 00-0177) See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0618		Cast Iron Decorative Light Posts (26 56 13 00-0177)		
26 56 13 00-0619		Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0618) Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0620	EA	10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	829.17	126.90
26 56 13 00-0621	EA	12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	883.02	146.18
26 56 13 00-0622	EA	14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	953.21	152.27
26 56 13 00-0623	EA	16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,164.60	177.65
26 56 13 00-0624	EA	18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,350.04	192.88
26 56 13 00-0625	EA	20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,543.96	208.11
26 56 13 00-0626		Landscape Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.		
26 56 13 00-0627		Aluminum Landscape Light Poles (26 56 13 00-0626) Note: Includes painted finish.		
26 56 13 00-0628		Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0627)		
26 56 13 00-0629		Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0628)		
26 56 13 00-0630	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	424.16	152.27
26 56 13 00-0631	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	784.64	203.03
26 56 13 00-0632		Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0628)		
26 56 13 00-0633	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	367.87	152.27
26 56 13 00-0634	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	728.35	203.03
26 56 13 00-0635		Steel Landscape Light Poles (26 56 13 00-0626) Note: Includes painted finish.		
26 56 13 00-0636		Round Straight, Steel Landscape Light Poles (26 56 13 00-0635)		
26 56 13 00-0637		Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0636)		
26 56 13 00-0638	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....	380.18	152.27
26 56 13 00-0639		Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0636)		
26 56 13 00-0640	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial.....	363.24	152.27
26 56 13 00-0641		Light Pole Brackets And Arms (26 56 13 00-0001)		
26 56 13 00-0642		Light Pole Brackets (26 56 13 00-0641)		
26 56 13 00-0643		Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0642)		
26 56 13 00-0644		Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0643)		
26 56 13 00-0645		Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0644) Note: Includes powdercoat finish.		
26 56 13 00-0646	EA	Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	364.26	30.45
		For Galvanized Finish, Add	30.34	
26 56 13 00-0647	EA	Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	455.79	30.45
		For Galvanized Finish, Add	39.49	
26 56 13 00-0648	EA	Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	483.73	30.45
		For Galvanized Finish, Add	42.28	
26 56 13 00-0649	EA	Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	656.18	30.45
		For Galvanized Finish, Add	59.53	
26 56 13 00-0650	EA	Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	683.03	30.45
		For Galvanized Finish, Add	62.21	
26 56 13 00-0651		Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0644) Note: Includes satin brushed or painted finish.		
26 56 13 00-0652	EA	Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket	280.01	30.45
		For Bronze Or Satin Anodized Finish, Add	21.91	
		For Black Anodized Finish, Add	43.82	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0653 EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	349.91 28.90 57.80	30.45
26 56 13 00-0654 EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	368.73 30.78 61.56	30.45
26 56 13 00-0655 EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	434.60 37.37 74.74	30.45
26 56 13 00-0656 EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	448.04 38.71 77.43	30.45
26 56 13 00-0657 Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0643)		
26 56 13 00-0658 Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0657) Note: Includes powdercoat finish.		
26 56 13 00-0659 EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	390.40 32.95	30.45
26 56 13 00-0660 EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket For Galvanized Finish, Add	478.07 41.72	30.45
26 56 13 00-0661 EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket For Galvanized Finish, Add	581.03 52.01	30.45
26 56 13 00-0662 EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket For Galvanized Finish, Add	684.48 62.36	30.45
26 56 13 00-0663 Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0642)		
26 56 13 00-0664 Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0663) Note: Includes powdercoat finish.		
26 56 13 00-0665 EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	382.10	50.76
26 56 13 00-0666 EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	561.54	50.76
26 56 13 00-0667 EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	773.85	50.76
26 56 13 00-0668 EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	843.70	50.76
26 56 13 00-0669 Light Pole Arms (26 56 13 00-0641)		
26 56 13 00-0670 Wood Pole Streetlight Arms (26 56 13 00-0669)		
26 56 13 00-0671 Steel, Wood Pole Streetlight Arms (26 56 13 00-0670)		
26 56 13 00-0672 EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	231.30	45.69
26 56 13 00-0673 EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	246.14	50.76
26 56 13 00-0674 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	288.03	63.45
26 56 13 00-0675 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	332.13	50.76
26 56 13 00-0676 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	373.77	63.45
26 56 13 00-0677 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	453.22	76.14
26 56 13 00-0678 Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0670)		
26 56 13 00-0679 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	252.03	50.76
26 56 13 00-0680 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	329.23	50.76
26 56 13 00-0681 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	446.33	63.45
26 56 13 00-0682 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	595.40	76.14
26 56 13 00-0683 Area Light Arms (26 56 13 00-0669)		
26 56 13 00-0684 Steel Area Light Arms (26 56 13 00-0683)		
26 56 13 00-0685 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	421.44	50.76
26 56 13 00-0686 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	647.80	55.84
26 56 13 00-0687 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	719.18	60.91
26 56 13 00-0688 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	850.55	65.99
26 56 13 00-0689 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	504.31	63.45
26 56 13 00-0690 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	708.17	68.52
26 56 13 00-0691 Aluminum Area Light Arms (26 56 13 00-0683)		
26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	320.61	50.76
26 56 13 00-0693 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	394.40	63.45
26 56 13 00-0694 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	470.85	76.14
26 56 13 00-0695 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	317.93	50.76
26 56 13 00-0696 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	473.26	55.84
26 56 13 00-0697 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	389.02	63.45
26 56 13 00-0698 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	576.60	68.52
26 56 13 00-0699 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	473.53	76.14
26 56 13 00-0700 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	702.79	81.21
26 56 13 00-0701 Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)		
26 56 13 00-0702 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms	1,674.99	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 56 13 00-0703	High Mast Lighting	(26 56 13 00-0001)		
26 56 13 00-0704	High Mast Lighting Assemblies	(26 56 13 00-0703)		
Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 19 00-0034 for high mast fixtures.				
26 56 13 00-0705	EA	60' High Mast Lighting Assembly	31,945.61	1,560.48
26 56 13 00-0706	EA	70' High Mast Lighting Assembly	33,739.69	1,634.36
26 56 13 00-0707	EA	80' High Mast Lighting Assembly	35,564.93	1,741.11
26 56 13 00-0708	EA	90' High Mast Lighting Assembly	37,420.22	1,880.70
26 56 13 00-0709	EA	100' High Mast Lighting Assembly	39,294.31	2,053.07
26 56 13 00-0710	EA	110' High Mast Lighting Assembly	41,706.79	2,258.53
26 56 13 00-0711	EA	120' High Mast Lighting Assembly	43,667.15	2,463.83
26 56 13 00-0712	EA	130' High Mast Lighting Assembly	45,483.07	2,669.13
26 56 13 00-0713	EA	140' High Mast Lighting Assembly	47,443.44	2,874.52
26 56 13 00-0714	EA	150' High Mast Lighting Assembly	49,812.54	3,079.81
26 56 13 00-0715	High Mast Light Poles	(26 56 13 00-0703)		
26 56 13 00-0716	EA	60' High Mast Light Poles	12,373.22	937.20
26 56 13 00-0717	EA	70' High Mast Light Poles	14,145.12	981.58
26 56 13 00-0718	EA	80' High Mast Light Poles	15,938.29	1,045.70
26 56 13 00-0719	EA	90' High Mast Light Poles	17,751.66	1,129.56
26 56 13 00-0720	EA	100' High Mast Light Poles	19,586.30	1,233.15
26 56 13 00-0721	EA	110' High Mast Light Poles	21,442.21	1,356.46
26 56 13 00-0722	EA	120' High Mast Light Poles	22,859.42	1,479.78
26 56 13 00-0723	EA	130' High Mast Light Poles	22,528.01	2,742.52
26 56 13 00-0724	EA	140' High Mast Light Poles	25,548.31	1,726.41
26 56 13 00-0725	EA	150' High Mast Light Poles	27,111.04	1,849.72
26 56 13 00-0726	High Mast Lighting Accessories	(26 56 13 00-0703)		
See CSI section 26 56 19 00-0034 for light fixtures, 26 56 26 00-0119 for lighting fixtures.				
26 56 13 00-0727	EA	Bottom Latching System For High Mast Lighting	575.69	
26 56 13 00-0728	EA	Top Latching System For High Mast Lighting	1,602.55	
26 56 13 00-0729	EA	Centering Springs For High Mast Lighting	1,213.42	
26 56 13 00-0730	EA	Electric Power Cord For High Mast Lighting	517.19	
26 56 13 00-0731	EA	Aircraft Warning Lights For High Mast Lighting	975.00	
26 56 13 00-0732	EA	Internal Motorized Hoist For High Mast Lighting	10,121.61	
26 56 13 00-0733	EA	Portable Hoist Motor With Step Down Transformer For High Mast Lighting	10,199.62	
26 56 13 00-0734	Concrete Bases	(26 56 13 00-0001)		
26 56 13 00-0735	Concrete Bases, Cast In Place	(26 56 13 00-0734)		
Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.				
26 56 13 00-0736	VLF	2' Diameter Concrete Base For Poles	77.73	
26 56 13 00-0737	VLF	2-1/2' Diameter Concrete Base For Poles	99.32	
26 56 13 00-0738	VLF	3' Diameter Concrete Base For Poles	122.00	
26 56 13 00-0739	VLF	3-1/2' Diameter Concrete Base For Poles	152.89	
26 56 13 00-0740	VLF	4' Diameter Concrete Base For Poles	183.27	
26 56 13 00-0741	VLF	5' Diameter Concrete Base For Poles	252.90	
26 56 13 00-0742	VLF	6' Diameter Concrete Base For Poles	335.99	
26 56 19	Roadway Lighting	(26 56)		
26 56 19 00-0001	Metal Halide, Pole Mounted	(26 56 19)		
26 56 19 00-0002	EA	175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	294.42	205.58
26 56 19 00-0003	EA	250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	317.90	223.15
26 56 19 00-0004	EA	400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	345.98	240.05
26 56 19 00-0005	EA	1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	487.56	281.34
26 56 19 00-0006	High Pressure Sodium, Pole Mounted	(26 56 19)		
26 56 19 00-0007	EA	100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	274.64	240.05
26 56 19 00-0008	EA	150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	273.66	240.05
26 56 19 00-0009	EA	175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	283.19	240.05
26 56 19 00-0010	EA	250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	291.68	240.05
26 56 19 00-0011	EA	400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	337.25	240.05
26 56 19 00-0012	EA	1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	503.80	240.05
26 56 19 00-0013	Low Pressure Sodium, Pole Mounted	(26 56 19)		
26 56 19 00-0014	EA	135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	317.36	130.59
26 56 19 00-0015	EA	135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	440.26	192.04
26 56 19 00-0016	EA	180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	473.66	192.04



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0017		LED, Pole Mounted (Dialight) (26 56 19)		
26 56 19 00-0018	EA	131 System Watts, Enclosed And Gasketed, Exterior Roadway Fixture (Dialight SL2C4ELGH)	1,170.74	145.41
26 56 19 00-0019		LED, Pole Mounted (LED-Era) (26 56 19)		
26 56 19 00-0020	EA	88 System Watts, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS5)	1,431.60	132.19
26 56 19 00-0021	EA	124 System Watts, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS7)	1,698.57	145.41
26 56 19 00-0022		LED, Pole Mounted (Lighting Science Group) (26 56 19)		
26 56 19 00-0023	EA	50 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR1 CW R3 2B)	1,055.71	118.97
26 56 19 00-0024	EA	75 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR2 CW R3 2B)	1,082.14	132.19
26 56 19 00-0025	EA	100 System Watts, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R2 2B)	1,168.93	138.80
26 56 19 00-0026	EA	100 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R3 2B)	1,168.93	138.80
26 56 19 00-0027	EA	150 System Watts, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R2 2B)	1,195.38	152.02
26 56 19 00-0028	EA	150 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R3 2B)	1,195.38	152.02
26 56 19 00-0029	EA	86 System Watts, Type V Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group SHB CW CLR)	1,379.25	132.19
26 56 19 00-0030		Street Light Accessories (26 56 19)		
26 56 19 00-0031		Photo Controls (26 56 19 00-0030)		
26 56 19 00-0032	EA	Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014	78.85	
26 56 19 00-0033	EA	Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016	91.35	
26 56 19 00-0034		High Mast Fixtures (26 56 19)		
26 56 19 00-0035		Metal Halide (26 56 19 00-0034)		
26 56 19 00-0036	EA	400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	186.93	126.07
26 56 19 00-0037	EA	400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	186.93	126.07
26 56 19 00-0038	EA	750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	212.84	144.03
26 56 19 00-0039	EA	750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	212.84	144.03
26 56 19 00-0040	EA	1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	260.85	180.04
26 56 19 00-0041	EA	1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	260.85	180.04
26 56 19 00-0042		High Pressure Sodium (26 56 19 00-0034)		
26 56 19 00-0043	EA	400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux	178.20	126.07
26 56 19 00-0044	EA	400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	178.20	126.07
26 56 19 00-0045	EA	600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	214.68	133.28
26 56 19 00-0046	EA	750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	229.08	144.03
26 56 19 00-0047	EA	1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	277.09	180.04
26 56 19 00-0048		LED Roadway Lighting (26 56 19)		
26 56 19 00-0049		LED Roadway Lighting (Philips Lumec) (26 56 19 00-0048)		
26 56 19 00-0050		Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) (26 56 19 00-0049) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0051	EA	49 LEDs, 102 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series)	947.72	122.27
26 56 19 00-0052	EA	98 LEDs, 204 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	1,450.93	125.58
26 56 19 00-0053		LED Roadway Lighting (Lithonia) (26 56 19 00-0048)		
26 56 19 00-0054		Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) (26 56 19 00-0053) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0055	EA	30 LEDs, 74 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series)	1,349.85	115.66
26 56 19 00-0056	EA	60 LEDs, 146 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series)	2,200.24	118.97
26 56 19 00-0057		LED Roadway Lighting (CREE® BetaLED®) (26 56 19 00-0048)		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0058		Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) (26 56 19 00-0057) Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 19 00-0059	EA	20 LEDs, 25 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	620.59	112.36
26 56 19 00-0060	EA	30 LEDs, 35 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	694.34	115.66
26 56 19 00-0061	EA	40 LEDs, 45 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	783.13	118.97
26 56 19 00-0062	EA	50 LEDs, 55 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	858.04	122.27
26 56 19 00-0063	EA	60 LEDs, 65 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	932.94	125.58
26 56 19 00-0064	EA	70 LEDs, 75 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,109.70	128.89
26 56 19 00-0065	EA	80 LEDs, 85 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,184.60	132.19
26 56 19 00-0066	EA	90 LEDs, 96 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,258.34	135.50
26 56 19 00-0067	EA	100 LEDs, 111 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,401.54	138.80
26 56 19 00-0068	EA	110 LEDs, 122 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,476.45	142.11
26 56 19 00-0069	EA	120 LEDs, 133 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,551.36	145.41
26 56 19 00-0070		Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) (26 56 19 00-0057) Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0071	EA	40 LEDs, 47 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	1,205.63	118.97
		For Multi-Level Drive Currents, Add	162.05	
26 56 19 00-0072	EA	60 LEDs, 68 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	1,389.00	125.58
		For Multi-Level Drive Currents, Add	162.05	
26 56 19 00-0073	EA	80 LEDs, 90 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	1,572.37	132.19
		For Multi-Level Drive Currents, Add	162.05	
26 56 19 00-0074	EA	100 LEDs, 111 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	1,755.74	138.80
		For Multi-Level Drive Currents, Add	162.05	
26 56 19 00-0075	EA	120 LEDs, 132 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	2,300.27	145.41
		For Multi-Level Drive Currents, Add	162.05	
26 56 19 00-0076	EA	140 LEDs, 157 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	2,483.65	152.02
		For Multi-Level Drive Currents, Add	162.05	
26 56 19 00-0077	EA	160 LEDs, 179 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	2,667.02	158.63
		For Multi-Level Drive Currents, Add	162.05	
26 56 19 00-0078		Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) (26 56 19 00-0057) Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0079	EA	4,806 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A)	523.20	118.97
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
		For Backlight Control Shield, Add	24.81	
		For Field Adjustable Output, Add	20.48	
		For Bird Spikes, Add	37.70	
		For Field Adjustable Output And Utility Label, Add	27.31	
		For Fuse, Add	40.95	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	40.95	
		For 480 Volt, Add	61.44	
		For Multi-Level, Add	88.73	
26 56 19 00-0080	EA	5,340 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A)	523.20	118.97
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
		For Backlight Control Shield, Add	24.81	
		For Field Adjustable Output, Add	20.48	
		For Bird Spikes, Add	37.70	
		For Field Adjustable Output And Utility Label, Add	27.31	
		For Fuse, Add	40.95	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	40.95	
		For 480 Volt, Add	61.44	
		For Multi-Level, Add	88.73	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0081	EA		8,407 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E)	574.80	118.97
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Backlight Control Shield, Add	24.81	
			For Field Adjustable Output, Add	20.48	
			For Bird Spikes, Add	37.70	
			For Field Adjustable Output And Utility Label, Add	27.31	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	40.95	
			For 480 Volt, Add	61.44	
26 56 19 00-0082	EA		8,820 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E)	574.80	118.97
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Backlight Control Shield, Add	24.81	
			For Field Adjustable Output, Add	20.48	
			For Bird Spikes, Add	37.70	
			For Field Adjustable Output And Utility Label, Add	27.31	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	40.95	
			For 480 Volt, Add	61.44	
26 56 19 00-0083	EA		9,612 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B)	666.53	118.97
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Field Adjustable Output, Add	20.48	
			For Backlight Control Shield, Add	34.83	
			For Field Adjustable Output And Utility Label, Add	27.31	
			For Fuse, Add	40.95	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	40.95	
			For Bird Spikes, Add	60.64	
			For 480 Volt, Add	61.44	
			For Multi-Level, Add	88.73	
26 56 19 00-0084	EA		10,680 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B)	666.53	118.97
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Field Adjustable Output, Add	20.48	
			For Backlight Control Shield, Add	34.83	
			For Field Adjustable Output And Utility Label, Add	27.31	
			For Fuse, Add	40.95	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	40.95	
			For Bird Spikes, Add	60.64	
			For 480 Volt, Add	61.44	
			For Multi-Level, Add	88.73	
26 56 19 00-0085	EA		13,732 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F)	752.55	118.97
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Field Adjustable Output, Add	20.48	
			For Backlight Control Shield, Add	34.83	
			For Field Adjustable Output And Utility Label, Add	27.31	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	40.95	
			For Bird Spikes, Add	60.64	
			For 480 Volt, Add	61.44	
26 56 19 00-0086	EA		14,408 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F)	752.55	118.97
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Field Adjustable Output, Add	20.48	
			For Backlight Control Shield, Add	34.83	
			For Field Adjustable Output And Utility Label, Add	27.31	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	40.95	
			For Bird Spikes, Add	60.64	
			For 480 Volt, Add	61.44	
26 56 19 00-0087	EA		2,529 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G)	431.45	118.97
			For Utility Label, Add	6.82	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	20.48	
			For 0 To 10 Volt Dimming, Add	40.95	
26 56 19 00-0088	EA		2,722 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G)	431.45	118.97
			For Utility Label, Add	6.82	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	20.48	
			For 0 To 10 Volt Dimming, Add	40.95	
26 56 19 00-0089	EA		3,819 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C)	452.96	118.97
			For Utility Label, Add	6.82	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	20.48	
			For 0 To 10 Volt Dimming, Add	40.95	
26 56 19 00-0090	EA		4,109 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C)	452.96	118.97
			For Utility Label, Add	6.82	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	20.48	
			For 0 To 10 Volt Dimming, Add	40.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0091	EA		4,548 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	460.13	118.97
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Field Adjustable Output, Add	20.48	
			For Field Adjustable Output And Utility Label, Add	27.31	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	40.95	
			For 0 To 10 Volt Dimming, Add	40.95	
26 56 19 00-0092	EA		4,627 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	460.13	118.97
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Field Adjustable Output, Add	20.48	
			For Field Adjustable Output And Utility Label, Add	27.31	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	40.95	
			For 0 To 10 Volt Dimming, Add	40.95	
26 56 19 00-0093			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™) (26 56 19 00-0057) Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0094	EA		3,300 Lumens, 3,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N).....	445.80	118.97
			For Field Adjustable Output, Add	20.48	
			For Backlight Control Shield, Add	46.03	
			For Bird Spikes, Add	61.04	
26 56 19 00-0095	EA		3,300 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N).....	445.80	118.97
			For Field Adjustable Output, Add	20.48	
			For Backlight Control Shield, Add	46.03	
			For Bird Spikes, Add	61.04	
26 56 19 00-0096	EA		5,000 Lumens, 3,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N).....	460.13	118.97
			For Field Adjustable Output, Add	20.48	
			For Backlight Control Shield, Add	46.03	
			For Bird Spikes, Add	61.04	
26 56 19 00-0097	EA		5,000 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	460.13	118.97
			For Field Adjustable Output, Add	20.48	
			For Backlight Control Shield, Add	46.03	
			For Bird Spikes, Add	61.04	
26 56 19 00-0098			LED Roadway Lighting (Cooper Lighting) (26 56 19 00-0048)		
26 56 19 00-0099			Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) (26 56 19 00-0098) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0100	EA		1 LED Light Square, 51 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	622.58	118.97
26 56 19 00-0101	EA		2 LED Light Squares, 103 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	831.12	132.19
26 56 19 00-0102	EA		3 LED Light Squares, 154 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	895.99	152.02
26 56 19 00-0103	EA		4 LED Light Squares, 206 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,306.46	165.24
26 56 19 00-0104	EA		6 LED Light Squares, 309 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,700.99	188.11
26 56 19 00-0105			LED Roadway Lighting (PlanLED) (26 56 19 00-0048)		
26 56 19 00-0106			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) (26 56 19 00-0105) Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0107	EA		8,500 Lumens, 85 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W).....	736.79	115.66
26 56 19 00-0108	EA		11,000 Lumens, 110 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W).....	797.57	116.94
26 56 19 00-0109	EA		15,000 Lumens, 150 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W).....	845.89	118.97
26 56 19 00-0110			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) (26 56 19 00-0105) Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0111	EA		7,200 Lumens, 60 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060).....	501.76	112.87
26 56 19 00-0112	EA		10,000 Lumens, 80 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080).....	534.94	114.91



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0113	EA		12,500 Lumens, 100 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SET100)	586.76	116.94
26 56 19 00-0114			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) (26 56 19 00-0105) Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0115	EA		13,000 Lumens, 100 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100)	620.54	116.94
			For 0 To 10 Volt Dimming, Add	49.88	
			For 347-480 Volt, Add	49.88	
26 56 19 00-0116	EA		16,900 Lumens, 130 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130)	683.14	117.95
			For 0 To 10 Volt Dimming, Add	49.88	
			For 347-480 Volt, Add	14.73	
26 56 19 00-0117	EA		19,500 Lumens, 150 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150)	731.76	118.97
			For 0 To 10 Volt Dimming, Add	49.88	
			For 347-480 Volt, Add	-5.28	
26 56 19 00-0118			LED Roadway Lighting (General Electric) (26 56 19 00-0048)		
26 56 19 00-0119			Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) (26 56 19 00-0118) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0120	EA		2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY)	394.85	112.36
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >25 To 500, Deduct	-17.01	
			For >500, Deduct	-27.22	
26 56 19 00-0121	EA		3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY)	397.91	113.89
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >25 To 500, Deduct	-17.01	
			For >500, Deduct	-27.22	
26 56 19 00-0122	EA		4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY)	413.23	115.66
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >25 To 500, Deduct	-18.19	
			For >500, Deduct	-27.29	
26 56 19 00-0123	EA		5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY)	428.61	116.94
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >25 To 500, Deduct	-19.47	
			For >500, Deduct	-29.21	
26 56 19 00-0124	EA		7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY)	469.01	119.48
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >25 To 500, Deduct	-23.01	
			For >500, Deduct	-48.31	
26 56 19 00-0125	EA		8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY)	490.30	120.50
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >25 To 500, Deduct	-24.93	
			For >500, Deduct	-37.40	
26 56 19 00-0126	EA		9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY)	530.24	122.27
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >25 To 500, Deduct	-28.57	
			For >500, Deduct	-42.85	
26 56 19 00-0127	EA		13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY)	614.96	125.58
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >25 To 500, Deduct	-36.38	
			For >500, Deduct	-54.57	
26 56 19 00-0128	EA		19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY)	713.77	132.19
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >25 To 500, Deduct	-44.94	
			For >500, Deduct	-67.41	
26 56 19 00-0129			LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0048)		
26 56 19 00-0130			Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0129) Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0131	EA		4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALED70)	715.36	115.66
26 56 19 00-0132	EA		6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLED70)	877.19	118.97
26 56 19 00-0133	EA		9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLED70)	1,203.51	122.27

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0134	EA	13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	1,532.79	127.10
26 56 19 00-0135	EA	17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	1,854.07	130.66
26 56 19 00-0136		LED Roadway Lighting (Leotek) (26 56 19 00-0048)		
26 56 19 00-0137		Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0136) Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0138	EA	Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....	404.35	115.66
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >500 To 1,000, Deduct	-17.30	
		For >1,000 To 2,500, Deduct	-24.22	
		For >2,500, Deduct	-31.14	
		For Twist Lock Shorting Cap, Add	5.35	
		For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
		For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0139	EA	Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....	412.51	116.94
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >500 To 1,000, Deduct	-17.86	
		For >1,000 To 2,500, Deduct	-25.01	
		For >2,500, Deduct	-32.16	
		For Twist Lock Shorting Cap, Add	5.35	
		For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
		For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0140	EA	Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL).....	436.51	117.70
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >500 To 1,000, Deduct	-20.11	
		For >1,000 To 2,500, Deduct	-28.16	
		For >2,500, Deduct	-36.20	
		For Twist Lock Shorting Cap, Add	5.35	
		For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
		For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0141	EA	Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....	499.58	122.27
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >500 To 1,000, Deduct	-25.50	
		For >1,000 To 2,500, Deduct	-35.70	
		For >2,500, Deduct	-45.91	
		For Twist Lock Shorting Cap, Add	5.35	
		For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
		For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0142	EA	Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL).....	575.85	125.58
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >500 To 1,000, Deduct	-32.47	
		For >1,000 To 2,500, Deduct	-45.46	
		For >2,500, Deduct	-58.44	
		For Twist Lock Shorting Cap, Add	5.35	
		For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
		For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0143	EA	Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL).....	579.92	127.61
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >500 To 1,000, Deduct	-32.47	
		For >1,000 To 2,500, Deduct	-45.46	
		For >2,500, Deduct	-58.44	
		For Twist Lock Shorting Cap, Add	5.35	
		For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
		For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0144	EA	Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL).....	697.46	129.64
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >500 To 1,000, Deduct	-43.82	
		For >1,000 To 2,500, Deduct	-61.34	
		For >2,500, Deduct	-78.87	
		For Twist Lock Shorting Cap, Add	5.35	
		For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
		For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0145	EA	Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL).....	729.50	132.19
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >500 To 1,000, Deduct	-46.51	
		For >1,000 To 2,500, Deduct	-65.12	
		For >2,500, Deduct	-83.72	
		For Twist Lock Shorting Cap, Add	5.35	
		For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
		For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	



Electrical			26	26
Lighting			26 50	
Exterior Lighting			26 56	

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
26 56 19 00-0146	EA	Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL)	.....	807.72		134.22
		For LightGrid™ Wireless Outdoor Controller, Add		20.00		
		For >500 To 1,000, Deduct		-53.93		
		For >1,000 To 2,500, Deduct		-75.50		
		For >2,500, Deduct		-97.07		
		For Twist Lock Shorting Cap, Add		5.35		
		For ANSI 7-wire Photocontrol Receptacle, Add		16.05		
		For Ripley Long-Life Twist Lock Photocontrol, Add		28.72		
26 56 19 00-0147	EA	Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL)	.....	862.35		136.25
		For LightGrid™ Wireless Outdoor Controller, Add		20.00		
		For >500 To 1,000, Deduct		-58.98		
		For >1,000 To 2,500, Deduct		-82.58		
		For >2,500, Deduct		-106.17		
		For Twist Lock Shorting Cap, Add		5.35		
		For ANSI 7-wire Photocontrol Receptacle, Add		16.05		
		For Ripley Long-Life Twist Lock Photocontrol, Add		28.72		
26 56 19 00-0148	EA	Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL)	.....	459.69		116.94
		For LightGrid™ Wireless Outdoor Controller, Add		20.00		
		For >500 To 1,000, Deduct		-22.58		
		For >1,000 To 2,500, Deduct		-31.61		
		For >2,500, Deduct		-40.65		
		For Twist Lock Shorting Cap, Add		5.35		
		For ANSI 7-wire Photocontrol Receptacle, Add		16.05		
		For Ripley Long-Life Twist Lock Photocontrol, Add		28.72		
26 56 19 00-0149	EA	Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL)	.....	500.63		119.98
		For LightGrid™ Wireless Outdoor Controller, Add		20.00		
		For >500 To 1,000, Deduct		-26.07		
		For >1,000 To 2,500, Deduct		-36.49		
		For >2,500, Deduct		-46.92		
		For Twist Lock Shorting Cap, Add		5.35		
		For ANSI 7-wire Photocontrol Receptacle, Add		16.05		
		For Ripley Long-Life Twist Lock Photocontrol, Add		28.72		
26 56 19 00-0150	EA	Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL)	.....	536.66		122.27
		For LightGrid™ Wireless Outdoor Controller, Add		20.00		
		For >500 To 1,000, Deduct		-29.21		
		For >1,000 To 2,500, Deduct		-40.90		
		For >2,500, Deduct		-52.58		
		For Twist Lock Shorting Cap, Add		5.35		
		For ANSI 7-wire Photocontrol Receptacle, Add		16.05		
		For Ripley Long-Life Twist Lock Photocontrol, Add		28.72		
26 56 19 00-0151	EA	Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL)	.....	568.09		125.07
		For LightGrid™ Wireless Outdoor Controller, Add		20.00		
		For >500 To 1,000, Deduct		-31.80		
		For >1,000 To 2,500, Deduct		-44.51		
		For >2,500, Deduct		-57.23		
		For Twist Lock Shorting Cap, Add		5.35		
		For ANSI 7-wire Photocontrol Receptacle, Add		16.05		
		For Ripley Long-Life Twist Lock Photocontrol, Add		28.72		
26 56 19 00-0152	EA	Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL)	.....	599.33		126.09
		For LightGrid™ Wireless Outdoor Controller, Add		20.00		
		For >500 To 1,000, Deduct		-34.72		
		For >1,000 To 2,500, Deduct		-48.60		
		For >2,500, Deduct		-62.49		
		For Twist Lock Shorting Cap, Add		5.35		
		For ANSI 7-wire Photocontrol Receptacle, Add		16.05		
		For Ripley Long-Life Twist Lock Photocontrol, Add		28.72		
26 56 19 00-0153	EA	Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL)	.....	703.98		130.66
		For LightGrid™ Wireless Outdoor Controller, Add		20.00		
		For >500 To 1,000, Deduct		-44.27		
		For >1,000 To 2,500, Deduct		-61.97		
		For >2,500, Deduct		-79.68		
		For Twist Lock Shorting Cap, Add		5.35		
		For ANSI 7-wire Photocontrol Receptacle, Add		16.05		
		For Ripley Long-Life Twist Lock Photocontrol, Add		28.72		
26 56 19 00-0154	EA	Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL)	.....	788.84		133.21
		For LightGrid™ Wireless Outdoor Controller, Add		20.00		
		For >500 To 1,000, Deduct		-52.24		
		For >1,000 To 2,500, Deduct		-73.14		
		For >2,500, Deduct		-94.04		
		For Twist Lock Shorting Cap, Add		5.35		
		For ANSI 7-wire Photocontrol Receptacle, Add		16.05		
		For Ripley Long-Life Twist Lock Photocontrol, Add		28.72		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0155	EA		Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL).....	834.80	133.71
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-56.74	
			For >1,000 To 2,500, Deduct	-79.43	
			For >2,500, Deduct	-102.13	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0156	EA		Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL).....	879.42	135.23
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-60.89	
			For >1,000 To 2,500, Deduct	-85.25	
			For >2,500, Deduct	-109.61	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0157	EA		Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP).....	494.54	127.61
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-23.93	
			For >1,000 To 2,500, Deduct	-33.50	
			For >2,500, Deduct	-43.08	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0158	EA		Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP).....	530.78	128.89
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-27.30	
			For >1,000 To 2,500, Deduct	-38.22	
			For >2,500, Deduct	-49.14	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0159	EA		Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL).....	389.54	116.68
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-15.62	
			For >1,000 To 2,500, Deduct	-21.86	
			For >2,500, Deduct	-28.11	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0160	EA		Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL).....	396.06	117.70
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-16.07	
			For >1,000 To 2,500, Deduct	-22.49	
			For >2,500, Deduct	-28.92	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0161	EA		Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL).....	426.48	119.98
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-18.65	
			For >1,000 To 2,500, Deduct	-26.11	
			For >2,500, Deduct	-33.57	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0162	EA		Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL).....	628.93	129.64
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-36.96	
			For >1,000 To 2,500, Deduct	-51.75	
			For >2,500, Deduct	-66.53	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0163	EA		Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL).....	803.34	133.71
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-53.59	
			For >1,000 To 2,500, Deduct	-75.03	
			For >2,500, Deduct	-96.46	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0164	EA		Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL).....	723.46	134.22
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-45.50	
			For >1,000 To 2,500, Deduct	-63.70	
			For >2,500, Deduct	-81.90	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0165	EA		Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY).....	376.55	116.94
			For >500 To 1,000, Deduct	-14.27	
			For >1,000 To 2,500, Deduct	-19.98	
			For >2,500, Deduct	-25.68	
			For Twist Lock Shorting Cap, Add	5.35	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.72	
26 56 19 00-0166			Induction Roadway Lighting (26 56 19)		
26 56 19 00-0167			Induction Roadway Lighting (US Lighting Tech) (26 56 19 00-0166)		
			Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.		
26 56 19 00-0168	EA		40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	614.78	152.52
26 56 19 00-0169	EA		70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	685.69	157.61
26 56 19 00-0170	EA		100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	706.03	167.77
26 56 19 00-0171	EA		150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	726.36	177.95
26 56 19 00-0172	EA		200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	876.21	183.03
26 56 19 00-0173	EA		250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	891.24	188.11
26 56 19 00-0174	EA		40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	563.77	152.52
26 56 19 00-0175	EA		70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	641.96	157.61
26 56 19 00-0176	EA		100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	662.30	167.77
26 56 19 00-0177	EA		150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	682.63	177.95
26 56 23			Area Lighting (26 56)		
26 56 23 00-0001			Exterior Globe (26 56 23)		
26 56 23 00-0002			Incandescent (26 56 23 00-0001)		
26 56 23 00-0003	EA		100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	33.08	16.73
26 56 23 00-0004	EA		150-200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture	96.51	16.73
26 56 23 00-0005	EA		100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	70.55	16.73
26 56 23 00-0006	EA		150-200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture	102.12	16.73
26 56 23 00-0007			Surface Mounted, Rectangular Exterior Area Fixture (26 56 23)		
26 56 23 00-0008			Metal Halide (26 56 23 00-0007)		
26 56 23 00-0009	EA		175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	294.08	192.04
26 56 23 00-0010	EA		250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	316.26	216.05
26 56 23 00-0011	EA		400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	345.98	240.05
26 56 23 00-0012	EA		1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	487.56	281.34
26 56 23 00-0013			High Pressure Sodium (26 56 23 00-0007)		
26 56 23 00-0014	EA		70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	251.67	164.19
26 56 23 00-0015	EA		100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	266.23	174.76
26 56 23 00-0016	EA		150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	280.47	184.36
26 56 23 00-0017	EA		175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	291.68	192.04
26 56 23 00-0018	EA		250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	314.39	216.05
26 56 23 00-0019	EA		400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	337.25	240.05
26 56 23 00-0020	EA		1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	503.80	281.34
26 56 23 00-0021			Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 23)		
26 56 23 00-0022			High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 23 00-0021)		
			Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 23 00-0023	EA		35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	200.45	129.63
26 56 23 00-0024	EA		50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	221.15	144.03
26 56 23 00-0025	EA		70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	491.24	164.19
26 56 23 00-0026	EA		100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	266.23	174.76
26 56 23 00-0027	EA		150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	280.47	184.36
26 56 23 00-0028	EA		175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	291.68	192.04
26 56 23 00-0029	EA		250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	314.39	216.05
26 56 23 00-0030	EA		400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	337.25	240.05



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0031		Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 23 00-0021) Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 23 00-0032	EA	50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	477.59	144.03
26 56 23 00-0033	EA	70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	511.09	164.19
26 56 23 00-0034	EA	100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	531.35	174.76
26 56 23 00-0035	EA	150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	555.30	184.36
26 56 23 00-0036	EA	175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	568.74	192.04
26 56 23 00-0037	EA	250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	620.39	216.05
26 56 23 00-0038	EA	400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	767.09	240.05
26 56 23 00-0039		Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 23 00-0021) Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 23 00-0040	EA	7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	171.22	66.92
26 56 23 00-0041	EA	9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	179.62	71.10
26 56 23 00-0042	EA	13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	195.18	75.29
26 56 23 00-0043	EA	75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	201.85	83.64
26 56 23 00-0044	EA	100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	227.90	96.19
26 56 23 00-0045		Wall Packs (26 56 23)		
26 56 23 00-0046		Non Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 23 00-0045) Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		
26 56 23 00-0047	EA	42 Watt Compact Fluorescent, Non Cutoff, Polycarbonate Lens, Mini Wall Pack	237.86	45.75
26 56 23 00-0048	EA	50 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Mini Wall Pack	252.64	45.75
26 56 23 00-0049	EA	35 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack	252.64	45.75
26 56 23 00-0050	EA	70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack	324.30	45.75
26 56 23 00-0051		Semi Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 23 00-0045) Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.		
26 56 23 00-0052	EA	42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	439.97	45.75
26 56 23 00-0053	EA	50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	445.29	45.75
26 56 23 00-0054	EA	70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	449.88	45.75
26 56 23 00-0055	EA	100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	441.50	45.75
26 56 23 00-0056	EA	70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	407.01	45.75
26 56 23 00-0057	EA	100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	388.07	45.75
26 56 23 00-0058		Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 23 00-0045) Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.		
26 56 23 00-0059	EA	50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	461.79	45.75
26 56 23 00-0060	EA	70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	466.63	45.75
26 56 23 00-0061	EA	100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	458.26	45.75
26 56 23 00-0062	EA	70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	465.00	45.75
26 56 23 00-0063	EA	100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	465.00	45.75
26 56 23 00-0064		Non Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.		
26 56 23 00-0065	EA	70 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	451.81	60.93
26 56 23 00-0066	EA	100 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	451.81	60.93
26 56 23 00-0067	EA	175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	425.85	60.93
26 56 23 00-0068	EA	70 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	435.80	60.93
26 56 23 00-0069	EA	100 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	435.80	60.93
26 56 23 00-0070	EA	150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	407.02	60.93
26 56 23 00-0071		Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.		
26 56 23 00-0072	EA	70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	467.19	60.93
26 56 23 00-0073	EA	100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	467.19	60.93
26 56 23 00-0074	EA	175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	467.19	60.93
26 56 23 00-0075	EA	70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	451.92	60.93
26 56 23 00-0076	EA	100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	451.92	60.93
26 56 23 00-0077	EA	150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	451.92	60.93
26 56 23 00-0078		Full Cutoff, Tempered Glass Lens, Small Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.		
26 56 23 00-0079	EA	175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack	591.41	60.93
26 56 23 00-0080		Cutoff, Borosilicate Glass Lens, Medium Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. Lithonia TWR2.		
26 56 23 00-0081	EA	250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	568.97	75.48
		Note: 9-1/4" x 17-7/8" x 9-3/8".		



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0082	EA		400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack Note: 9-1/4" x 17-7/8" x 12-1/2".	604.16	75.48
26 56 23 00-0083	EA		250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack Note: 9-1/4" x 17-7/8" x 9-3/8".	646.11	75.48
26 56 23 00-0084	EA		400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack Note: 9-1/4" x 17-7/8" x 12-1/2".	657.65	75.48
26 56 23 00-0085			Cutoff, Tempered Glass Lens, Medium Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.		
26 56 23 00-0086	EA		250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	614.23	75.48
26 56 23 00-0087	EA		400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	653.76	75.48
26 56 23 00-0088			Non Cutoff, Polycarbonate Lens, Large Wall Packs (26 56 23 00-0045) Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.		
26 56 23 00-0089	EA		100 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	581.54	91.50
26 56 23 00-0090	EA		175 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	539.67	91.50
26 56 23 00-0091	EA		70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	571.85	91.50
26 56 23 00-0092	EA		100 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	575.05	91.50
26 56 23 00-0093	EA		150 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	578.41	91.50
26 56 23 00-0094			Non Cutoff, Borosilicate Glass Lens, Large Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.		
26 56 23 00-0095	EA		175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	581.55	91.50
26 56 23 00-0096	EA		250 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	595.52	91.50
26 56 23 00-0097	EA		400 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	637.39	91.50
26 56 23 00-0098	EA		150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	609.48	91.50
26 56 23 00-0099	EA		250 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	623.46	91.50
26 56 23 00-0100	EA		400 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	651.34	91.50
26 56 23 00-0101			Full Cutoff, LED Wall Packs (26 56 23 00-0045)		
26 56 23 00-0102			Full Cutoff, LED Wall Packs (Lithonia) (26 56 23 00-0101)		
26 56 23 00-0103	EA		30 LEDs, 57 System Watts, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	1,073.14	88.97
26 56 23 00-0104	EA		30 LEDs, 35 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	1,170.31	88.97
26 56 23 00-0105			Full Cutoff, LED Wall Packs (CREE® BetaLED®) (26 56 23 00-0101)		
26 56 23 00-0106			Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) (26 56 23 00-0105) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0107	EA		20 LEDs, 26 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	667.40	86.44
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Bird Spikes, Add	34.44	
			For Fuse, Add	40.95	
			For 0 To 10 Volt Dimming, Add	40.95	
			For 480 Volt, Add	61.44	
			For Multi-Level, Add	88.73	
26 56 23 00-0108	EA		40 LEDs, 47 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	856.75	91.51
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Bird Spikes, Add	34.95	
			For Fuse, Add	40.95	
			For 0 To 10 Volt Dimming, Add	40.95	
			For 480 Volt, Add	61.44	
			For Multi-Level, Add	88.73	
26 56 23 00-0109	EA		60 LEDs, 68 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	959.48	96.60
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Bird Spikes, Add	35.46	
			For Fuse, Add	40.95	
			For 0 To 10 Volt Dimming, Add	40.95	
			For 480 Volt, Add	61.44	
			For Multi-Level, Add	88.73	
26 56 23 00-0110	EA		80 LEDs, 90 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,235.46	101.69
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Bird Spikes, Add	35.97	
			For Fuse, Add	40.95	
			For 0 To 10 Volt Dimming, Add	40.95	
			For 480 Volt, Add	61.44	
			For Multi-Level, Add	88.73	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0111	EA	100 LEDs, 111 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Bird Spikes, Add</i> <i>For Fuse, Add</i> <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level, Add</i>	1,424.81 13.65 36.48 40.95 40.95 61.44 88.73	106.77
26 56 23 00-0112	EA	120 LEDs, 132 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Bird Spikes, Add</i> <i>For Fuse, Add</i> <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level, Add</i>	1,614.17 13.65 36.99 40.95 40.95 61.44 88.73	111.85
26 56 23 00-0113		Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) ^(26 56 23 00-0105) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0114	EA	25 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For 0 To 10 Volt Dimming, Add</i> <i>For Multi-Level, Add</i>	401.32 13.65 40.95 40.95	86.44
26 56 23 00-0115	EA	42 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For 0 To 10 Volt Dimming, Add</i> <i>For Multi-Level, Add</i>	464.79 13.65 40.95 40.95	91.51
26 56 23 00-0116		Semi Cutoff, Induction Wall Packs ^(26 56 23 00-0045)		
26 56 23 00-0117		Semi Cutoff, Induction Wall Packs (Everlast®) ^(26 56 23 00-0116) Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 23 00-0118	EA	70 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70)	708.18	86.44
26 56 23 00-0119	EA	80 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80)	724.31	91.51
26 56 23 00-0120	EA	100 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100)	740.45	96.60
26 56 23 00-0121	EA	120 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120)	822.19	101.69
26 56 23 00-0122		Wall Pack Accessories ^(26 56 23 00-0045)		
26 56 23 00-0123	EA	Photocell For Wall Pack	88.56	22.88
26 56 23 00-0124	EA	Wire Guard For Mini And Small Wall Pack	97.50	22.88
26 56 23 00-0125	EA	Wire Guard For Medium And Large Wall Pack	134.92	22.88
26 56 23 00-0126	EA	Clear Polycarbonate Vandal Guard For Wall Pack	188.93	22.88
26 56 23 00-0127	EA	Full Cutoff Visor For Wall Pack	95.06	22.88
26 56 23 00-0128		LED Area Fixtures ^(26 56 23)		
26 56 23 00-0129		Pole Mount, LED Area Fixtures ^(26 56 23 00-0128)		
26 56 23 00-0130		Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) ^(26 56 23 00-0129) Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0131	EA	20 LEDs, 45 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,070.74	86.44
26 56 23 00-0132	EA	40 LEDs, 91 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,232.73	91.51
26 56 23 00-0133	EA	80 LEDs, 188 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,404.91	101.69
26 56 23 00-0134	EA	100 LEDs, 218 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,415.07	106.77
26 56 23 00-0135		Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) ^(26 56 23 00-0129) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 23 00-0136	EA	40 LEDs, 47 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 347-480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i>	891.43 16.21 28.61 59.06 162.05	91.51
26 56 23 00-0137	EA	60 LEDs, 68 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 347-480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i>	1,071.76 16.21 29.12 59.06 162.05	96.60
26 56 23 00-0138	EA	80 LEDs, 90 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 347-480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i>	1,320.38 16.21 29.63 59.06 162.05	101.69



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
26 56 23 00-0139	EA	100 LEDs, 111 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,500.69		106.77
		For Backlight Shielding, Add	16.21		
		For Type II Medium Optic, Add	30.14		
		For 347-480 Volt, Add	59.06		
		For Multi-Level Drive Currents, Add	162.05		
26 56 23 00-0140	EA	120 LEDs, 132 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,681.03		111.85
		For Backlight Shielding, Add	16.21		
		For Type II Medium Optic, Add	30.65		
		For 347-480 Volt, Add	59.06		
		For Multi-Level Drive Currents, Add	162.05		
26 56 23 00-0141	EA	140 LEDs, 157 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,915.75		116.94
		For Backlight Shielding, Add	16.21		
		For Type II Medium Optic, Add	31.15		
		For 347-480 Volt, Add	59.06		
		For Multi-Level Drive Currents, Add	162.05		
26 56 23 00-0142	EA	160 LEDs, 179 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,096.07		122.02
		For Backlight Shielding, Add	16.21		
		For Type II Medium Optic, Add	31.66		
		For 347-480 Volt, Add	59.06		
		For Multi-Level Drive Currents, Add	162.05		
26 56 23 00-0143		Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO) (26 56 23 00-0129)			
		Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.			
26 56 23 00-0144	EA	120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO)	1,555.39		111.85
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65		
		For Bird Spikes, Add	32.70		
		For 5,000K Color Temperature, Add	34.13		
		For Fuse, Add	40.95		
		For 0 To 10 Volt Dimming, Add	40.95		
		For 480 Volt, Add	61.44		
		For Multi-Level, Add	88.73		
		For 1,000mA Driver, Add	114.69		
26 56 23 00-0145	EA	240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO)	2,609.66		137.27
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65		
		For 5,000K Color Temperature, Add	34.13		
		For Fuse, Add	40.95		
		For 0 To 10 Volt Dimming, Add	40.95		
		For Bird Spikes, Add	48.14		
		For Multi-Level, Add	88.73		
		For 1,000mA Driver, Add	114.68		
		For 480 Volt, Add	122.86		
26 56 23 00-0146		Wall Mount, LED Area Fixtures (26 56 23 00-0128)			
26 56 23 00-0147		Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) (26 56 23 00-0146)			
		Note: UL wet listed. Includes 4,000K color temperature, 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.			
26 56 23 00-0148	EA	20 LEDs, 47 System Watts, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED)	903.16		86.44
26 56 23 00-0149	EA	30 LEDs, 71 System Watts, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED)	923.50		96.60
26 56 23 00-0150		Surface Mount, LED Parking Structure Fixtures (26 56 23 00-0128)			
26 56 23 00-0151		Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) (26 56 23 00-0150)			
		Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.			
26 56 23 00-0152	EA	40 LEDs, 47 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG)	789.57		91.51
		For Multi-Level Drive Currents, Add	162.05		
26 56 23 00-0153	EA	60 LEDs, 68 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG)	969.90		96.60
		For Multi-Level Drive Currents, Add	162.05		
26 56 23 00-0154	EA	80 LEDs, 90 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG)	1,150.22		101.69
		For Multi-Level Drive Currents, Add	162.05		
26 56 23 00-0155	EA	100 LEDs, 111 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG)	1,330.54		106.77
		For Multi-Level Drive Currents, Add	162.05		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0156		Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) (26 56 23 00-0150) Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0157	EA	40 LEDs, 47 System Watts, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	761.79	91.51
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0158	EA	60 LEDs, 68 System Watts, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	840.25	96.60
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0159		Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) (26 56 23 00-0150) Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0160	EA	3,700 Lumens, 50 System Watts, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	598.81	91.51
26 56 23 00-0161		Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) (26 56 23 00-0150) Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.		
26 56 23 00-0162	EA	70 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,145.82	96.60
26 56 23 00-0163	EA	110 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,166.15	106.77
26 56 23 00-0164		Surface Mount, LED Canopy Fixtures (26 56 23 00-0128)		
26 56 23 00-0165		Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) (26 56 23 00-0164) Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0166	EA	40 LEDs, 47 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	912.27	91.51
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0167	EA	60 LEDs, 68 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,092.59	96.60
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0168	EA	80 LEDs, 90 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,272.92	101.69
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0169	EA	100 LEDs, 111 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,453.23	106.77
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0170	EA	120 LEDs, 132 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,633.57	111.85
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0171	EA	140 LEDs, 157 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,882.18	116.94
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0172	EA	160 LEDs, 179 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,062.50	122.02
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0173	EA	200 LEDs, 221 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,423.14	132.19
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0174	EA	240 LEDs, 264 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,773.64	137.27
		<i>For Multi-Level Drive Currents, Add</i>	162.05	
26 56 23 00-0175		Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) (26 56 23 00-0164) Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0176	EA	8,000 Lumens, 82 System Watts, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250).....	639.75	101.69
26 56 23 00-0177		Recessed Mount, LED Soffit Fixtures (26 56 23 00-0128)		
26 56 23 00-0178		Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) (26 56 23 00-0177) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0179	EA	40 LEDs, 47 System Watts, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	775.68	91.51
26 56 23 00-0180	EA	60 LEDs, 68 System Watts, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	854.14	96.60



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0181	Surface Mount, LED Area Fixtures (26 56 23 00-0128)		
26 56 23 00-0182	Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) (26 56 23 00-0181) Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 23 00-0183	EA 50 LEDs, 59 System Watts, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	680.69	91.51
26 56 23 00-0184	EA 50 LEDs, 59 System Watts, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	845.77	91.51
26 56 23 00-0185	EA 68 LEDs, 79 System Watts, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	716.19	101.69
26 56 23 00-0186	EA 68 LEDs, 79 System Watts, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	874.44	101.69
26 56 23 00-0187	Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) (26 56 23 00-0181) Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0188	EA 13 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A) For Knuckle Mount Or Trunnion Mount Base, Add	222.76 45.00	32.94
26 56 23 00-0189	EA 20 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A) For Knuckle Mount Or Trunnion Mount Base, Add	258.36 45.00	32.94
26 56 23 00-0190	EA 30 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A) For Knuckle Mount Or Trunnion Mount Base, Add	326.19 45.00	32.94
26 56 23 00-0191	Surface Mount, LED Facade Fixtures (26 56 23 00-0128)		
26 56 23 00-0192	Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) (26 56 23 00-0191)		
26 56 23 00-0193	EA 12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	432.04	38.48
26 56 23 00-0194	EA 24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	693.04	35.13
26 56 23 00-0195	EA 36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	879.69	29.28
26 56 23 00-0196	EA 48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,066.32	23.42
26 56 23 00-0197	Post Top, LED Area Fixtures (26 56 23 00-0128)		
26 56 23 00-0198	Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) (26 56 23 00-0197) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0199	EA 1,800 Lumens, 27 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	1,238.12	139.82
26 56 23 00-0200	EA 3,400 Lumens, 54 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	1,360.42	139.82
26 56 23 00-0201	EA 77 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3).....	1,457.09	139.82
26 56 23 00-0202	Post Top, LED Area Fixtures (General Electric EPAS) (26 56 23 00-0197) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		
26 56 23 00-0203	EA 3,200 Lumens, 45 System Watts, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3) For >25 To 500, Deduct For >500, Deduct	1,449.19 -81.87 -269.00	139.82
26 56 23 00-0204	EA 6,515 Lumens, 80 System Watts, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3) For >25 To 500, Deduct For >500, Deduct	1,480.65 -84.07 -276.23	139.82
26 56 23 00-0205	Post Top, LED Area Fixtures (General Electric EPTC) (26 56 23 00-0197) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 23 00-0206	EA 3,200 Lumens, 45 System Watts, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3) For >25 To 500, Deduct For >500, Deduct	1,023.28 -52.06 -215.66	139.82
26 56 23 00-0207	EA 6,150 Lumens, 80 System Watts, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3) For >25 To 500, Deduct For >500, Deduct	1,070.36 -55.35 -205.59	139.82
26 56 23 00-0208	Post Top, LED Area Fixtures (General Electric EPST) (26 56 23 00-0197) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0209	EA	3,135 Lumens, 45 System Watts, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 ES/E3).....	809.28	139.82
		For >25 To 500, Deduct	-37.08	
		For >500, Deduct	-111.23	
26 56 23 00-0210	EA	6,115 Lumens, 80 System Watts, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3).....	856.36	139.82
		For >25 To 500, Deduct	-40.37	
		For >500, Deduct	-121.11	
26 56 23 00-0211		Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) (26 56 23 00-0197)		
		Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 23 00-0212	EA	13,800 Lumens, 130 System Watts, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR)	2,043.69	139.82
26 56 23 00-0213		LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53) (26 56 23 00-0197)		
		Note: Includes 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0347 for disposal of hazardous lamps.		
26 56 23 00-0214	EA	LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53).....	575.40	76.26
		For 0 To 10 Volt Dimming, Add	40.95	
26 56 23 00-0215		LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) (26 56 23 00-0197)		
		Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0347 for disposal of hazardous lamps.		
26 56 23 00-0216	EA	LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT)	357.50	16.27
		For Backlight Control Shield, Add	27.62	
26 56 23 00-0217		Induction Area Fixtures (26 56 23)		
26 56 23 00-0218		Post Top, Induction Area Fixtures (26 56 23 00-0217)		
26 56 23 00-0219		Post Top, Induction Area Fixtures (US Lighting Tech) (26 56 23 00-0218)		
		Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.		
26 56 23 00-0220	EA	40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	718.11	139.82
26 56 23 00-0221	EA	70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	788.56	139.82
26 56 23 00-0222	EA	100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	788.56	139.82
26 56 23 00-0223	EA	150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	788.56	139.82
26 56 23 00-0224		Surface Mount, Induction Parking Structure Fixtures (26 56 23 00-0217)		
26 56 23 00-0225		Surface Mount, Induction Parking Structure Fixtures (Everlast®) (26 56 23 00-0224)		
26 56 23 00-0226	EA	40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	632.49	127.10
26 56 23 00-0227	EA	55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	678.88	129.64
26 56 23 00-0228	EA	70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	688.81	132.19
26 56 23 00-0229	EA	80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	698.76	134.73
26 56 23 00-0230	EA	100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	708.70	137.27
26 56 23 00-0231	EA	120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	723.50	139.82
26 56 23 00-0232	EA	70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	759.26	132.19
26 56 23 00-0233	EA	80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	769.20	134.73
26 56 23 00-0234	EA	100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	779.15	137.27
26 56 23 00-0235	EA	120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	814.60	139.82
26 56 23 00-0236		Pole Mount, Induction Area Fixtures (26 56 23 00-0217)		
26 56 23 00-0237		Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) (26 56 23 00-0236)		
		Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 23 00-0238	EA	70 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)	738.00	86.44
26 56 23 00-0239	EA	80 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)	760.10	91.51
26 56 23 00-0240	EA	100 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)	782.20	96.60
26 56 23 00-0241		Metal Halide Area Fixtures (26 56 23)		
26 56 23 00-0242		Pole Mount, Metal Halide Area Fixtures (26 56 23 00-0241)		
		Note: Includes pulse start ballast.		
26 56 23 00-0243	EA	150 Watt, Metal Halide Area Fixture, Pole Mount	697.14	126.90
26 56 23 00-0244	EA	175 Watt, Metal Halide Area Fixture, Pole Mount	765.20	139.58
26 56 23 00-0245	EA	250 Watt, Metal Halide Area Fixture, Pole Mount	845.29	152.27
26 56 23 00-0246	EA	400 Watt, Metal Halide Area Fixture, Pole Mount	901.47	177.65



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0247		High Pressure Sodium Area Fixtures (26 56 23)		
26 56 23 00-0248		Pole Mount, High Pressure Sodium Area Fixtures (26 56 23 00-0247)		
26 56 23 00-0249	EA	100 Watt, High Pressure Sodium Area Fixture, Pole Mount	577.42	101.51
26 56 23 00-0250	EA	150 Watt, High Pressure Sodium Area Fixture, Pole Mount	635.81	126.90
26 56 23 00-0251	EA	250 Watt, High Pressure Sodium Area Fixture, Pole Mount	696.23	152.27
26 56 23 00-0252	EA	400 Watt, High Pressure Sodium Area Fixture, Pole Mount	741.73	177.65
26 56 23 00-0253		Area Lighting Accessories (26 56 23)		
26 56 23 00-0254		Outdoor Motion Sensors (26 56 23 00-0253)		
26 56 23 00-0255	EA	70' Range, 180 Degree Detection Zone, 8 Amp Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000)	82.68	22.91
26 56 23 00-0256	EA	70' Range, 200 Degree Detection Zone, 10 Amp Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000)	89.36	22.91
26 56 23 00-0257	EA	30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With PhotoCell (SensorSwitch SBOR)	337.49	22.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			13.75	
26 56 26		Landscape Lighting (26 56)		
26 56 26 00-0001		Bollards (26 56 26) Note: Excludes concrete base.		
26 56 26 00-0002		Aluminum Architectural Bollards (26 56 26 00-0001)		
26 56 26 00-0003		High Pressure Sodium, Aluminum Architectural Bollards (26 56 26 00-0002)		
26 56 26 00-0004		Square, High Pressure Sodium, Aluminum Architectural Bollards (26 56 26 00-0003)		
26 56 26 00-0005	EA	24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	911.40	77.77
26 56 26 00-0006	EA	30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	920.54	82.35
26 56 26 00-0007	EA	36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	929.69	86.93
26 56 26 00-0008	EA	42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	865.85	91.50
26 56 26 00-0009	EA	24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	911.40	77.77
26 56 26 00-0010	EA	30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	920.54	82.35
26 56 26 00-0011	EA	36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	929.69	86.93
26 56 26 00-0012	EA	42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	865.85	91.50
26 56 26 00-0013	EA	24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	911.40	77.77
26 56 26 00-0014	EA	30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	920.54	82.35
26 56 26 00-0015	EA	36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	929.69	86.93
26 56 26 00-0016	EA	42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	865.85	91.50
26 56 26 00-0017	EA	24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	911.40	77.77
26 56 26 00-0018	EA	30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	920.54	82.35
26 56 26 00-0019	EA	36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	929.69	86.93
26 56 26 00-0020	EA	42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	865.85	91.50
26 56 26 00-0021		Round, High Pressure Sodium, Aluminum Architectural Bollards (26 56 26 00-0003)		
26 56 26 00-0022	EA	24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	877.89	77.77
26 56 26 00-0023	EA	30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	887.03	82.35
26 56 26 00-0024	EA	36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	896.18	86.93
26 56 26 00-0025	EA	42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	832.03	91.50
26 56 26 00-0026	EA	24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	877.89	77.77
26 56 26 00-0027	EA	30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	887.03	82.35
26 56 26 00-0028	EA	36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	896.18	86.93
26 56 26 00-0029	EA	42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	832.03	91.50
26 56 26 00-0030	EA	24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	877.89	77.77
26 56 26 00-0031	EA	30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	887.03	82.35
26 56 26 00-0032	EA	36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	896.18	86.93
26 56 26 00-0033	EA	42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	832.03	91.50
26 56 26 00-0034	EA	24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	877.89	77.77
26 56 26 00-0035	EA	30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	887.03	82.35
26 56 26 00-0036	EA	36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	896.18	86.93
26 56 26 00-0037	EA	42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	832.03	91.50
26 56 26 00-0038		Metal Halide, Aluminum Architectural Bollards (26 56 26 00-0002)		
26 56 26 00-0039		Square, Metal Halide, Aluminum Architectural Bollards (26 56 26 00-0003)		
26 56 26 00-0040	EA	24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	954.92	77.77
26 56 26 00-0041	EA	30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	964.06	82.35
26 56 26 00-0042	EA	36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	973.21	86.93
26 56 26 00-0043	EA	42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	909.07	91.50
26 56 26 00-0044	EA	24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	954.92	77.77
26 56 26 00-0045	EA	30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	964.06	82.35
26 56 26 00-0046	EA	36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	973.21	86.93
26 56 26 00-0047	EA	42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	909.07	91.50
26 56 26 00-0048	EA	24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	954.92	77.77
26 56 26 00-0049	EA	30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	964.06	82.35
26 56 26 00-0050	EA	36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	973.21	86.93



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 26 00-0051	EA	42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	945.49		91.50
26 56 26 00-0052		Round, Metal Halide, Aluminum Architectural Bollards (26 56 26 00-0038)			
26 56 26 00-0053	EA	24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	921.10		77.77
26 56 26 00-0054	EA	30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	930.24		82.35
26 56 26 00-0055	EA	36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	939.39		86.93
26 56 26 00-0056	EA	42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	875.24		91.50
26 56 26 00-0057	EA	24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	921.10		77.77
26 56 26 00-0058	EA	30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	930.24		82.35
26 56 26 00-0059	EA	36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	939.39		86.93
26 56 26 00-0060	EA	42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	875.24		91.50
26 56 26 00-0061	EA	24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	921.10		77.77
26 56 26 00-0062	EA	30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	930.24		82.35
26 56 26 00-0063	EA	36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	939.39		86.93
26 56 26 00-0064	EA	42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	875.24		91.50
26 56 26 00-0065		Compact Fluorescent, Aluminum Architectural Bollards (26 56 26 00-0002)			
26 56 26 00-0066		Square, Compact Fluorescent, Aluminum Architectural Bollards (26 56 26 00-0065)			
26 56 26 00-0067	EA	24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	907.59		77.77
26 56 26 00-0068	EA	30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	916.73		82.35
26 56 26 00-0069	EA	36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	925.88		86.93
26 56 26 00-0070	EA	42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	862.72		91.50
26 56 26 00-0071	EA	24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	907.59		77.77
26 56 26 00-0072	EA	30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	916.73		82.35
26 56 26 00-0073	EA	36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	925.88		86.93
26 56 26 00-0074	EA	42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	862.72		91.50
26 56 26 00-0075	EA	24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	907.59		77.77
26 56 26 00-0076	EA	30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	916.73		82.35
26 56 26 00-0077	EA	36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	925.88		86.93
26 56 26 00-0078	EA	42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	862.72		91.50
26 56 26 00-0079		Round, Compact Fluorescent, Aluminum Architectural Bollards (26 56 26 00-0065)			
26 56 26 00-0080	EA	24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	874.50		77.77
26 56 26 00-0081	EA	30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	883.64		82.35
26 56 26 00-0082	EA	36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	892.79		86.93
26 56 26 00-0083	EA	42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	830.28		91.50
26 56 26 00-0084	EA	24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	874.50		77.77
26 56 26 00-0085	EA	30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	883.64		82.35
26 56 26 00-0086	EA	36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	892.79		86.93
26 56 26 00-0087	EA	42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	830.28		91.50
26 56 26 00-0088	EA	24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	874.50		77.77
26 56 26 00-0089	EA	30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	883.64		82.35
26 56 26 00-0090	EA	36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	892.79		86.93
26 56 26 00-0091	EA	42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	830.28		91.50
26 56 26 00-0092		LED, Aluminum Architectural Bollards (26 56 26 00-0002)			
26 56 26 00-0093		Square, LED, Aluminum Architectural Bollards (26 56 26 00-0092)			
26 56 26 00-0094	EA	24" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,079.37		77.77
26 56 26 00-0095	EA	30" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,088.51		82.35
26 56 26 00-0096	EA	36" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,097.66		86.93
26 56 26 00-0097	EA	42" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,035.42		91.50
26 56 26 00-0098	EA	24" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,309.69		77.77
26 56 26 00-0099	EA	30" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,318.83		82.35
26 56 26 00-0100	EA	36" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,327.98		86.93
26 56 26 00-0101	EA	42" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,264.60		91.50
26 56 26 00-0102		Round, LED, Aluminum Architectural Bollards (26 56 26 00-0092)			
26 56 26 00-0103	EA	24" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	1,045.01		77.77
26 56 26 00-0104	EA	30" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	1,054.15		82.35
26 56 26 00-0105	EA	36" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	1,063.30		86.93
26 56 26 00-0106	EA	42" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	999.92		91.50
26 56 26 00-0107	EA	24" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,275.33		77.77
26 56 26 00-0108	EA	30" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,284.47		82.35
26 56 26 00-0109	EA	36" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,293.62		86.93
26 56 26 00-0110	EA	42" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,230.65		91.50
26 56 26 00-0111		Reinforced Concrete Bollards (26 56 26 00-0001)			
26 56 26 00-0112	EA	48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard	976.05		228.74
26 56 26 00-0113	EA	58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard	1,668.98		304.96
26 56 26 00-0114		Low Voltage (26 56 26)			



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 26 00-0115 EA Low Voltage Recessed Uplight.....	333.06	166.53
26 56 26 00-0116 EA Low Voltage Walkway.....	182.99	91.50
26 56 26 00-0117 EA Low Voltage Malibu - 5 Light Set	244.31	122.15
26 56 26 00-0118 EA Low Voltage Mushroom 24" Pier.....	182.99	91.50
26 56 26 00-0119 Recessed, Adjustable (26 56 26)		
26 56 26 00-0120 EA 150 Watt Incandescent Recessed, Adjustable.....	292.77	146.40
26 56 26 00-0121 EA 300 Watt Incandescent Recessed, Adjustable.....	292.77	146.40
26 56 26 00-0122 Recessed, Uplight (26 56 26)		
26 56 26 00-0123 EA 50 Watt Incandescent Recessed Uplight	292.77	146.40
26 56 26 00-0124 EA 150 Watt Incandescent Recessed Uplight	292.77	146.40
26 56 26 00-0125 EA 300 Watt Incandescent Recessed Uplight	292.77	146.40
26 56 26 00-0126 EA 500 Watt Quartz Recessed Uplight.....	292.77	146.40
26 56 26 00-0127 EA 5 Watt LED Recessed Uplight	713.10	146.40
26 56 26 00-0128 EA 15 Watt LED Recessed Uplight	777.25	146.40
26 56 26 00-0129 Recessed Wall Light (26 56 26)		
26 56 26 00-0130 EA 100 Watt Incandescent Recessed Wall Light.....	182.99	91.50
26 56 26 00-0131 EA 100 Watt Fluorescent Recessed Wall Light.....	182.99	91.50
26 56 26 00-0132 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	244.31	122.15
26 56 26 00-0133 Step Lights (26 56 26)		
26 56 26 00-0134 EA Incandescent Step Light	146.35	73.20
26 56 26 00-0135 EA Fluorescent Step Light.....	146.40	73.20
26 56 26 00-0136 EA 5 Watt LED Step Light	388.03	73.20
26 56 26 00-0137 EA 15 Watt LED Step Light	456.45	73.20
26 56 26 00-0138 Tree Lights, Surface Adjustable (26 56 26)		
26 56 26 00-0139 EA 50 Watt Incandescent Tree Lights	244.31	122.15
26 56 26 00-0140 EA 100 Watt Incandescent Tree Lights	244.31	122.15
26 56 26 00-0141 EA 150 Watt Incandescent Tree Lights	365.98	182.99
26 56 26 00-0142 Underwater Lights (26 56 26)		
26 56 26 00-0143 EA 150 Watt, 120 Volt Underwater Lights	121.70	60.84
26 56 26 00-0144 EA 300 Watt, 120 Volt Underwater Lights	121.70	60.84
26 56 26 00-0145 EA 1,000 Watt, 120 Volt Underwater Lights	182.99	91.50
26 56 26 00-0146 EA 50 Watt, 12 Volt Underwater Lights	121.70	60.84
26 56 26 00-0147 EA 300 Watt, 12 Volt Underwater Lights	121.70	60.84
26 56 26 00-0148 EA Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent.....	274.49	137.25
26 56 33 Walkway Lighting (26 56)		
26 56 33 00-0001 Incandescent Walkway (26 56 33)		
26 56 33 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture.....	433.23	85.09
26 56 33 00-0003 Metal Halide Walkway (26 56 33)		
26 56 33 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture	663.00	133.77
26 56 33 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture	707.14	138.62
26 56 33 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture	771.89	143.92
26 56 33 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture	824.06	155.55
26 56 33 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture	725.79	143.92
26 56 33 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture	751.70	133.77
26 56 33 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture	762.50	138.62
26 56 33 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture	628.69	95.34
26 56 33 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture	674.80	95.34
26 56 33 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture	720.91	95.34
26 56 33 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture	814.25	107.33
26 56 33 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture	609.41	85.64
26 56 33 00-0016 High Pressure Sodium Walkway (26 56 33)		
26 56 33 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture	267.53	133.77
26 56 33 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture	277.26	138.62
26 56 33 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture	287.72	143.92
26 56 33 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture	311.21	155.55
26 56 33 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture	287.72	143.92
26 56 33 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture	267.53	133.77
26 56 33 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture	277.26	138.62
26 56 33 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture	190.62	95.34
26 56 33 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture	190.62	95.34

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 33 00-0026	EA	Spherical 250 Watt High Pressure Sodium Walkway Fixture.....	190.62	95.34
26 56 33 00-0027	EA	Spherical 400 Watt High Pressure Sodium Walkway Fixture.....	214.79	107.33
26 56 33 00-0028	EA	Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....	171.34	85.64
26 56 33 00-0029		Walkway, Adjustable (26 56 33)		
26 56 33 00-0030	EA	2' Fluorescent Adjustable Walkway Fixture.....	631.08	122.15
26 56 33 00-0031	EA	4' Fluorescent Adjustable Walkway Fixture.....	653.83	122.15
26 56 33 00-0032	EA	8' Fluorescent Adjustable Walkway Fixture.....	1,169.85	182.99
26 56 33 00-0033	EA	50 Watt Incandescent Adjustable Walkway Fixture	547.00	91.50
26 56 33 00-0034	EA	150 Watt Incandescent Adjustable Walkway Fixture	577.34	91.50
26 56 33 00-0035		LED Walkway (26 56 33)		
26 56 33 00-0036		LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 56 33 00-0035)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.				
26 56 33 00-0037	EA	13" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	628.72	70.26
		For Multi-Level Drive Currents, Add	162.05	
26 56 33 00-0038	EA	18" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	648.40	70.26
		For Multi-Level Drive Currents, Add	162.05	
26 56 33 00-0039	EA	36" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	683.13	70.26
		For Multi-Level Drive Currents, Add	162.05	
26 56 33 00-0040	EA	42" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	709.75	70.26
		For Multi-Level Drive Currents, Add	162.05	
26 56 33 00-0041	EA	96" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	818.45	90.34
		For Multi-Level Drive Currents, Add	162.05	
26 56 36		Flood Lighting (26 56)		
26 56 36 00-0001		General Electric Powerflood® Flood Lights (26 56 36)		
26 56 36 00-0002		MPF (Small Size) Series GE Flood Lights (26 56 36 00-0001)		
Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.				
26 56 36 00-0003		High Pressure Sodium MPF Series GE Flood Lights (26 56 36 00-0002)		
26 56 36 00-0004	EA	70 Watt High Pressure Sodium MPF Series GE Flood Light	247.24	76.14
26 56 36 00-0005	EA	100 Watt High Pressure Sodium MPF Series GE Flood Light	249.14	76.14
26 56 36 00-0006	EA	150 Watt High Pressure Sodium MPF Series GE Flood Light	252.31	76.14
26 56 36 00-0007		Metal Halide MPF Series GE Flood Lights (26 56 36 00-0002)		
26 56 36 00-0008	EA	70 Watt Metal Halide MPF Series GE Flood Light	322.59	76.14
26 56 36 00-0009		P-154 (Small Size) Series GE Flood Lights (26 56 36 00-0001)		
Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.				
26 56 36 00-0010		High Pressure Sodium P-154 Series GE Flood Lights (26 56 36 00-0009)		
26 56 36 00-0011	EA	70 Watt High Pressure Sodium P-154 Series GE Flood Light	475.92	101.51
26 56 36 00-0012	EA	100 Watt High Pressure Sodium P-154 Series GE Flood Light	478.45	101.51
26 56 36 00-0013	EA	150 Watt High Pressure Sodium P-154 Series GE Flood Light	482.88	101.51
26 56 36 00-0014	EA	250 Watt High Pressure Sodium P-154 Series GE Flood Light	532.90	101.51
26 56 36 00-0015	EA	400 Watt High Pressure Sodium P-154 Series GE Flood Light	547.46	101.51
26 56 36 00-0016		Metal Halide P-154 Series GE Flood Lights (26 56 36 00-0009)		
26 56 36 00-0017	EA	175 Watt Metal Halide P-154 Series GE Flood Light	471.49	101.51
26 56 36 00-0018	EA	250 Watt Metal Halide P-154 Series GE Flood Light	493.65	101.51
26 56 36 00-0019	EA	400 Watt Metal Halide P-154 Series GE Flood Light	505.04	101.51
26 56 36 00-0020		PF-154 (Medium Size) Series GE Flood Lights (26 56 36 00-0001)		
Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.				
26 56 36 00-0021		High Pressure Sodium PF-154 Series GE Flood Lights (26 56 36 00-0020)		
26 56 36 00-0022	EA	70 Watt High Pressure Sodium PF-154 Series GE Flood Light	490.53	114.21
26 56 36 00-0023	EA	100 Watt High Pressure Sodium PF-154 Series GE Flood Light	493.70	114.21
26 56 36 00-0024	EA	150 Watt High Pressure Sodium PF-154 Series GE Flood Light	498.77	114.21
26 56 36 00-0025	EA	250 Watt High Pressure Sodium PF-154 Series GE Flood Light	548.15	114.21
26 56 36 00-0026	EA	400 Watt High Pressure Sodium PF-154 Series GE Flood Light	562.08	114.21
26 56 36 00-0027		Metal Halide PF-154 GE Flood Lights (26 56 36 00-0020)		
26 56 36 00-0028	EA	175 Watt Metal Halide PF-154 Series GE Flood Light	486.74	114.21



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0029 EA 250 Watt Metal Halide PF-154 Series GE Flood Light.....	508.26	114.21
26 56 36 00-0030 EA 400 Watt Metal Halide PF-154 Series GE Flood Light.....	519.66	114.21
26 56 36 00-0031 PF-400 (Medium Size) Series GE Flood Lights (26 56 36 00-0001) Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0032 High Pressure Sodium PF-400 Series GE Flood Lights (26 56 36 00-0031)		
26 56 36 00-0033 EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	639.96	114.21
26 56 36 00-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	684.28	114.21
26 56 36 00-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	681.11	114.21
26 56 36 00-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	696.94	114.21
26 56 36 00-0037 Metal Halide PF-400 GE Flood Lights (26 56 36 00-0031)		
26 56 36 00-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light.....	656.42	114.21
26 56 36 00-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light.....	669.72	114.21
26 56 36 00-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light.....	683.64	114.21
26 56 36 00-0041 PF-1000 (Large Size) Series GE Flood Lights (26 56 36 00-0001) Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0042 High Pressure Sodium PF-154 Series GE Flood Lights (26 56 36 00-0041)		
26 56 36 00-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	854.65	126.90
26 56 36 00-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	854.65	126.90
26 56 36 00-0045 Metal Halide PF-1000 Series GE Flood Lights (26 56 36 00-0041)		
26 56 36 00-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light.....	817.93	126.90
26 56 36 00-0047 HLU/VLU (Medium Size) FRP Series GE Flood Lights (26 56 36 00-0001) Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0048 High Pressure Sodium HLU/MLU FRP Series GE Flood Lights (26 56 36 00-0047)		
26 56 36 00-0049 EA 250 Watt High Pressure Sodium HLU/MLU FRP Series GE Flood Light	700.74	114.21
26 56 36 00-0050 EA 400 Watt High Pressure Sodium HLU/MLU FRP Series GE Flood Light	712.77	114.21
26 56 36 00-0051 Metal Halide HLU/MLU Series GE Flood Lights (26 56 36 00-0047)		
26 56 36 00-0052 EA 400 Watt Metal Halide HLU/MLU FRP Series GE Flood Light	707.70	114.21
26 56 36 00-0053 Accessories For Powerflood GE Flood Lights (26 56 36 00-0001)		
26 56 36 00-0054 EA Wireguard For Powerflood GE Flood Light.....	123.57	25.38
26 56 36 00-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	76.72	25.38
26 56 36 00-0056 EA Top Visor For Powerflood Flood Light	105.84	25.38
26 56 36 00-0057 EA Top And Two Side Visors For Powerflood GE Flood Light	83.68	25.38
26 56 36 00-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	216.85	76.14
26 56 36 00-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light	90.65	25.38
26 56 36 00-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light	169.37	76.14
26 56 36 00-0061 EA Steel Angle Bracket For Powerflood GE Flood Light	175.06	76.14
26 56 36 00-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light	71.02	25.38
26 56 36 00-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light	69.12	25.38
26 56 36 00-0064 Lithonia Contour Series Flood Lights (26 56 36)		
26 56 36 00-0065 TFM (Small Size) Series Lithonia Flood Lights (26 56 36 00-0064) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 56 36 00-0066 High Pressure Sodium TFM Series Lithonia Flood Lights (26 56 36 00-0065)		
26 56 36 00-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	442.21	101.51
26 56 36 00-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	478.77	101.51
26 56 36 00-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	514.57	101.51
26 56 36 00-0070 Metal Halide TFM Series Lithonia Flood Lights (26 56 36 00-0065)		
26 56 36 00-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light.....	559.24	101.51
26 56 36 00-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light.....	550.44	101.51
26 56 36 00-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light.....	536.26	101.51
26 56 36 00-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light.....	535.21	101.51

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0075			Compact Fluorescent TFM Series Lithonia Flood Lights (26 56 36 00-0065)		
26 56 36 00-0076	EA		42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....	555.59	101.51
26 56 36 00-0077			TFL (Medium Size) Series Lithonia Flood Lights (26 56 36 00-0064)		
			Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0078			High Pressure Sodium TFL Series Lithonia Flood Lights (26 56 36 00-0077)		
26 56 36 00-0079	EA		250 Watt High Pressure Sodium TFL Series Lithonia Flood Light	658.09	114.21
26 56 36 00-0080	EA		400 Watt High Pressure Sodium TFL Series Lithonia Flood Light	670.29	114.21
26 56 36 00-0081			Metal Halide TFL Series Lithonia Flood Lights (26 56 36 00-0077)		
26 56 36 00-0082	EA		175 Watt Metal Halide TFL Series Lithonia Flood Light	630.69	114.21
26 56 36 00-0083	EA		250 Watt Metal Halide TFL Series Lithonia Flood Light	630.69	114.21
26 56 36 00-0084	EA		400 Watt Metal Halide TFL Series Lithonia Flood Light	649.81	114.21
26 56 36 00-0085			TFR (Low Profile) Series Lithonia Flood Lights (26 56 36 00-0064)		
			Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0086			High Pressure Sodium TFR Lithonia Flood Lights (26 56 36 00-0085)		
26 56 36 00-0087	EA		150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	626.63	101.51
26 56 36 00-0088	EA		250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	644.88	101.51
26 56 36 00-0089	EA		400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	660.13	101.51
26 56 36 00-0090			Metal Halide TFR Lithonia Flood Lights (26 56 36 00-0085)		
26 56 36 00-0091	EA		250 Watt Metal Halide TFR Series Lithonia Flood Light	620.53	101.51
26 56 36 00-0092	EA		400 Watt Metal Halide TFR Series Lithonia Flood Light	638.80	101.51
26 56 36 00-0093			TFA (Large Size) Series Lithonia Flood Lights (26 56 36 00-0064)		
			Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0094			High Pressure Sodium TFA Series Lithonia Flood Lights (26 56 36 00-0093)		
26 56 36 00-0095	EA		1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	1,183.10	126.90
26 56 36 00-0096			Metal Halide TFA Series Lithonia Flood Lights (26 56 36 00-0093)		
26 56 36 00-0097	EA		400 Watt Metal Halide TFA Series Lithonia Flood Light.....	924.11	126.90
26 56 36 00-0098	EA		1,000 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,015.51	126.90
26 56 36 00-0099			Accessories For Contour Series Lithonia Flood Lights (26 56 36 00-0064)		
26 56 36 00-0100	EA		Wireguard For Contour Series Lithonia Flood Light	108.21	25.38
26 56 36 00-0101	EA		Vandal Guard For Contour Series Lithonia Flood Light	197.93	25.38
26 56 36 00-0102	EA		Upper Visor For Contour Series Lithonia Flood Light.....	91.28	25.38
26 56 36 00-0103	EA		Full Visor For Contour Series Lithonia Flood Light.....	118.70	25.38
26 56 36 00-0104	EA		Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light.....	274.13	76.14
26 56 36 00-0105	EA		Radius Wall Bracket For Contour Series Lithonia Flood Light	225.61	76.14
26 56 36 00-0106	EA		Steel Angle Bracket For Contour Series Lithonia Flood Light	225.61	76.14
26 56 36 00-0107	EA		U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe	244.96	76.14
26 56 36 00-0108	EA		Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light	104.05	25.38
26 56 36 00-0109	EA		120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light	85.46	25.38
26 56 36 00-0110			Ruud Flood Lights (26 56 36)		
26 56 36 00-0111			NS (Micro) Series Ruud Flood Lights (26 56 36 00-0110)		
			Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
26 56 36 00-0112			High Pressure Sodium NS Series Ruud Flood Lights (26 56 36 00-0111)		
26 56 36 00-0113	EA		35 Watt High Pressure Sodium NS Series Ruud Flood Light	295.36	76.14
26 56 36 00-0114	EA		50 Watt High Pressure Sodium NS Series Ruud Flood Light	295.36	76.14
26 56 36 00-0115	EA		70 Watt High Pressure Sodium NS Series Ruud Flood Light	295.36	76.14
26 56 36 00-0116	EA		100 Watt High Pressure Sodium NS Series Ruud Flood Light	295.36	76.14
26 56 36 00-0117	EA		150 Watt High Pressure Sodium NS Series Ruud Flood Light	295.36	76.14
26 56 36 00-0118			Metal Halide NS Series Ruud Flood Lights (26 56 36 00-0111)		
26 56 36 00-0119	EA		50 Watt Metal Halide NS Series Ruud Flood Light	330.82	76.14
26 56 36 00-0120	EA		70 Watt Metal Halide NS Series Ruud Flood Light	330.82	76.14
26 56 36 00-0121	EA		100 Watt Metal Halide NS Series Ruud Flood Light	330.82	76.14



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0122 Compact Fluorescent NS Series Ruud Flood Lights (26 56 36 00-0111)		
26 56 36 00-0123 EA 13 Watt Compact Fluorescent NS Series Ruud Flood Light	258.64	76.14
26 56 36 00-0124 EA 26 Watt Compact Fluorescent NS Series Ruud Flood Light	267.50	76.14
26 56 36 00-0125 EA 32 Watt Compact Fluorescent NS Series Ruud Flood Light	270.04	76.14
26 56 36 00-0126 EA 42 Watt Compact Fluorescent NS Series Ruud Flood Light	272.57	76.14
26 56 36 00-0127 NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights (26 56 36 00-0110)		
Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
26 56 36 00-0128 High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights (26 56 36 00-0127)		
26 56 36 00-0129 EA 150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	453.81	114.21
26 56 36 00-0130 EA 250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	476.60	114.21
26 56 36 00-0131 EA 400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	489.27	114.21
26 56 36 00-0132 Metal Halide NSF/NSW/NSC Series Ruud Flood Lights (26 56 36 00-0127)		
26 56 36 00-0133 EA 175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	448.75	114.21
26 56 36 00-0134 EA 250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	451.28	114.21
26 56 36 00-0135 EA 400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	458.88	114.21
26 56 36 00-0136 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 56 36 00-0127)		
26 56 36 00-0137 EA 70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light	439.88	114.21
26 56 36 00-0138 FS (Square) Series Ruud Flood Lights (26 56 36 00-0110)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 56 36 00-0139 High Pressure Sodium FS Series Ruud Flood Lights (26 56 36 00-0138)		
26 56 36 00-0140 EA 250 Watt High Pressure Sodium FS Series Ruud Flood Light	520.93	114.21
26 56 36 00-0141 EA 400 Watt High Pressure Sodium FS Series Ruud Flood Light	523.46	114.21
26 56 36 00-0142 EA 1,000 Watt High Pressure Sodium FS Series Ruud Flood Light	855.28	126.90
26 56 36 00-0143 Metal Halide FS Series Ruud Flood Lights (26 56 36 00-0138)		
26 56 36 00-0144 EA 175 Watt Metal Halide FS Series Ruud Flood Light	520.93	114.21
26 56 36 00-0145 EA 250 Watt Metal Halide FS Series Ruud Flood Light	523.46	114.21
26 56 36 00-0146 EA 400 Watt Metal Halide FS Series Ruud Flood Light	531.06	114.21
26 56 36 00-0147 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light	771.71	126.90
26 56 36 00-0148 MFS (Mini Square) Series Ruud Flood Lights (26 56 36 00-0110)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 56 36 00-0149 High Pressure Sodium MFS Series Ruud Flood Lights (26 56 36 00-0148)		
26 56 36 00-0150 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light	414.50	101.51
26 56 36 00-0151 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light	441.09	101.51
26 56 36 00-0152 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light	441.09	101.51
26 56 36 00-0153 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light	441.09	101.51
26 56 36 00-0154 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light	441.09	101.51
26 56 36 00-0155 Metal Halide MFS Series Ruud Flood Lights (26 56 36 00-0148)		
26 56 36 00-0156 EA 50 Watt Metal Halide MFS Series Ruud Flood Light	449.96	101.51
26 56 36 00-0157 EA 70 Watt Metal Halide MFS Series Ruud Flood Light	449.96	101.51
26 56 36 00-0158 EA 100 Watt Metal Halide MFS Series Ruud Flood Light	449.96	101.51
26 56 36 00-0159 EA 175 Watt Metal Halide MFS Series Ruud Flood Light	436.03	101.51
26 56 36 00-0160 MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights (26 56 36 00-0110)		
Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 56 36 00-0161 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights (26 56 36 00-0160)		
26 56 36 00-0162 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	446.16	101.51
26 56 36 00-0163 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	472.75	101.51
26 56 36 00-0164 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	472.75	101.51
26 56 36 00-0165 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	472.75	101.51
26 56 36 00-0166 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	472.75	101.51
26 56 36 00-0167 Metal Halide MCF/MPM/MPN Series Ruud Flood Lights (26 56 36 00-0160)		
26 56 36 00-0168 EA 50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	481.62	101.51
26 56 36 00-0169 EA 70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	481.62	101.51
26 56 36 00-0170 EA 100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	481.62	101.51

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0171 EA 175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	467.69	101.51
26 56 36 00-0172 CF (Cutoff Square) Series Ruud Flood Lights (26 56 36 00-0110) Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
26 56 36 00-0173 High Pressure Sodium CF Series Ruud Flood Lights (26 56 36 00-0172)		
26 56 36 00-0174 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	580.44	114.21
26 56 36 00-0175 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	593.10	114.21
26 56 36 00-0176 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	886.94	126.90
26 56 36 00-0177 Metal Halide CF Series Ruud Flood Lights (26 56 36 00-0172)		
26 56 36 00-0178 EA 175 Watt Metal Halide CF Series Ruud Flood Light.....	552.58	114.21
26 56 36 00-0179 EA 250 Watt Metal Halide CF Series Ruud Flood Light.....	555.12	114.21
26 56 36 00-0180 EA 400 Watt Metal Halide CF Series Ruud Flood Light.....	562.71	114.21
26 56 36 00-0181 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light.....	803.36	126.90
26 56 36 00-0182 CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights (26 56 36 00-0110) Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		
26 56 36 00-0183 High Pressure Sodium CN Series Ruud Flood Lights (26 56 36 00-0182)		
26 56 36 00-0184 EA 400 High Pressure Sodium CN Series Ruud Flood Light.....	740.05	126.90
26 56 36 00-0185 EA 1,000 High Pressure Sodium CN Series Ruud Flood Light.....	871.74	126.90
26 56 36 00-0186 Metal Halide CN Series Ruud Flood Lights (26 56 36 00-0182)		
26 56 36 00-0187 EA 400 Watt Metal Halide CN Series Ruud Flood Light.....	709.66	126.90
26 56 36 00-0188 EA 1,000 Watt Metal Halide CN Series Ruud Flood Light.....	788.17	126.90
26 56 36 00-0189 PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights (26 56 36 00-0110) Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 56 36 00-0190 High Pressure Sodium PM/PN Series Ruud Flood Lights (26 56 36 00-0189)		
26 56 36 00-0191 EA 250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	598.17	114.21
26 56 36 00-0192 EA 400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	610.83	114.21
26 56 36 00-0193 Metal Halide PM/PN Series Ruud Flood Lights (26 56 36 00-0189)		
26 56 36 00-0194 EA 175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	570.31	114.21
26 56 36 00-0195 EA 250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	572.84	114.21
26 56 36 00-0196 EA 400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	580.44	114.21
26 56 36 00-0197 EA 1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	821.09	126.90
26 56 36 00-0198 Accessories For Ruud Flood Lighting (26 56 36 00-0110)		
26 56 36 00-0199 EA Wireguard For Ruud Flood Light.....	69.75	25.38
26 56 36 00-0200 EA Deep Baffle (Full Visor) For Ruud Flood Light	103.94	25.38
26 56 36 00-0201 EA Glare Guard (Upper Visor) For Ruud Flood Light	78.62	25.38
26 56 36 00-0202 EA Vandal Shield For Ruud Flood Light	91.28	25.38
26 56 36 00-0203 EA Pipe Mounting Bracket For Ruud Flood Light	195.32	76.14
26 56 36 00-0204 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	62.16	25.38
26 56 36 00-0205 Lumark Flood Lights (26 56 36)		
26 56 36 00-0206 QZ Wedge Series Quartz Lumark Flood Lights (26 56 36 00-0205) Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 56 36 00-0207 EA 500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	178.17	76.14
26 56 36 00-0208 LQL Series Quartz Lumark Flood Lights (26 56 36 00-0205) Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 56 36 00-0209 EA 1,500 Watt LQL Series Quartz Lumark Flood Light	215.52	76.14
26 56 36 00-0210 Kim Lighting (26 56 36)		
26 56 36 00-0211 MicroFlood® Series Kim Lighting Flood Lights (26 56 36 00-0210) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 56 36 00-0212 LED MicroFlood® Series Kim Lighting Flood Lights (26 56 36 00-0211)		
26 56 36 00-0213 EA 5 Watt LED MicroFlood® Series Kim Lighting Flood Light.....	313.42	32.07
26 56 36 00-0214 EA 15 Watt LED MicroFlood® Series Kim Lighting Flood Light.....	383.67	32.07
26 56 36 00-0215 Scarab® Series Kim Lighting Flood Lights (26 56 36 00-0210) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0216			LED Scarab® Series Kim Lighting Accent Flood Lights (26 56 36 00-0215) Note: Spot or narrow style accent flood lights.		
26 56 36 00-0217	EA		6 Watt LED Scarab® Series Kim Lighting Accent Flood Light.....	470.11	32.07
26 56 36 00-0218			CREE® BetaLED® Flood Lights (26 56 36)		
26 56 36 00-0219			Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) (26 56 36 00-0218) Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 36 00-0220	EA		40 LEDs, 47 System Watts, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	817.35	91.51
26 56 36 00-0221	EA		60 LEDs, 68 System Watts, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	894.66	96.60
26 56 36 00-0222			Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) (26 56 36 00-0218) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 36 00-0223	EA		20 LEDs, 26 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add	711.11 59.06	86.44
26 56 36 00-0224	EA		40 LEDs, 47 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add	891.43 59.06	91.51
26 56 36 00-0225	EA		60 LEDs, 68 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add	1,071.76 59.06	96.60
26 56 36 00-0226	EA		80 LEDs, 90 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add	1,320.38 59.06	101.69
26 56 36 00-0227	EA		100 LEDs, 111 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add	1,500.69 59.06	106.77
26 56 36 00-0228	EA		120 LEDs, 132 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add	1,681.03 59.06	111.85
26 56 36 00-0229	EA		140 LEDs, 157 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add	1,915.75 59.06	116.94
26 56 36 00-0230	EA		160 LEDs, 179 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add	2,096.07 59.06	122.02
26 56 36 00-0231			Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) (26 56 36 00-0218) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 36 00-0232	EA		120 LEDs, 267 System Watts, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO) For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For 5,000K Color Temperature, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For 1,000mA Driver, Add	1,612.73 13.65 32.70 34.13 40.95 40.95 61.44 88.73 114.68	111.85
26 56 36 00-0233	EA		240 LEDs, 533 System Watts, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO) For 3 Or 7-Pin NEMA Photocell Receptacle, Add For 5,000K Color Temperature, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For Bird Spikes, Add For Multi-Level, Add For 1,000mA Driver, Add For 480 Volt, Add	2,724.34 13.65 34.13 40.95 40.95 48.14 88.73 114.68 122.86	137.27
26 56 36 00-0234			Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) (26 56 36 00-0218) Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0235	EA		112 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL)	954.78	111.85
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Front Facing Optics, Back Light Shield, Add	25.52	
			For Rotated Optics, Back Light Shield, Add	25.52	
			For Field Adjustable Output, Add	20.48	
			For Fuse, Add	40.95	
			For 0 To 10 Volt Dimming, Add	40.95	
			For Multi-Level, Add	88.73	
26 56 36 00-0236	EA		168 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL)	1,019.29	111.85
			Note: Type III, IV or V medium optics only.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Front Facing Optics, Back Light Shield, Add	25.52	
			For Rotated Optics, Back Light Shield, Add	25.52	
			For Field Adjustable Output, Add	20.48	
			For Fuse, Add	40.95	
			For 0 To 10 Volt Dimming, Add	40.95	
			For Type II Medium Or Type V Short Optics, Add	76.86	
			For Multi-Level, Add	88.73	
26 56 36 00-0237	EA		223 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL)	1,306.64	137.27
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	13.65	
			For Field Adjustable Output, Add	20.48	
			For Front Facing Optics, Back Light Shield, Add	30.93	
			For Rotated Optics, Back Light Shield, Add	30.93	
			For Fuse, Add	40.95	
			For 0 To 10 Volt Dimming, Add	40.95	
			For Multi-Level, Add	88.73	
26 56 36 00-0238			PlanLED Flood Lights (26 56 36)		
26 56 36 00-0239			Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) (26 56 36 00-0238)		
26 56 36 00-0240	EA		6,250 Lumens, 50 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050)	410.14	91.51
26 56 36 00-0241	EA		9,375 Lumens, 75 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075)	484.36	96.60
26 56 36 00-0242	EA		12,500 Lumens, 100 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100).....	555.52	104.23
26 56 36 00-0243			Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) (26 56 36 00-0238)		
26 56 36 00-0244	EA		21,000 Lumens, 200 System Watts, LED Sports Flood Light (PlanLED SUFA SF200).....	1,123.00	203.37
			For 0 To 10 Volt Dimming, Add	49.88	
26 56 36 00-0245	EA		42,000 Lumens, 400 System Watts, LED Sports Flood Light (PlanLED SUFA SF400).....	1,687.86	203.37
			For 0 To 10 Volt Dimming, Add	49.88	
26 56 36 00-0246	EA		84,000 Lumens, 800 System Watts, LED Sports Flood Light (PlanLED SUFA SF800).....	2,903.76	203.37
			For 0 To 10 Volt Dimming, Add	49.88	
26 56 36 00-0247			Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) (26 56 36 00-0238)		
26 56 36 00-0248	EA		26,000 Lumens, 200 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200).....	971.32	132.19
			For 0 To 10 Volt Dimming, Add	49.88	
			For 347-480 Volt, Add	-19.77	
26 56 36 00-0249	EA		39,000 Lumens, 300 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300).....	1,228.41	137.27
			For 0 To 10 Volt Dimming, Add	49.88	
			For 347-480 Volt, Add	60.14	
26 56 36 00-0250	EA		52,000 Lumens, 400 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400).....	1,551.86	142.36
			For 0 To 10 Volt Dimming, Add	49.88	
			For 347-480 Volt, Add	48.28	

END OF SECTION 26



Communications			27
Common Work Results for Communications			27 05
Grounding and Bonding for Communications Systems			27 05 26

27

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 05 Common Work Results for Communications⁽²⁷⁾

27 05 26 Grounding and Bonding for Communications Systems^(27 05)

27 05 26 00-0001	EA	25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00).....	628.89	93.65
Note: Excludes terminations.				
27 05 26 00-0002	EA	50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00).....	811.85	124.90
Note: Excludes terminations.				
27 05 26 00-0003	EA	100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00).....	1,276.42	187.30
Note: Excludes terminations.				
27 05 26 00-0004	EA	Lucent 3B1-EW, Gas Tube Protector Unit.....	7.62	1.37
27 05 26 00-0005	EA	44 Terminal Copper Ground Bus Bar (Siemens ECGK)	58.57	24.74
27 05 26 00-0006	EA	2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar	175.38	24.74
27 05 26 00-0007	EA	4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar	207.82	24.74
27 05 26 00-0008	EA	#6 AWG, Cable Runway Ground Strap	44.06	4.59
27 05 26 00-0009	EA	1/4" Screw Size, #6 AWG Compression Lug	16.91	4.59
27 05 26 00-0010	EA	3/8" Screw Size, #6 AWG Compression Lug	17.87	4.59
27 05 26 00-0011	EA	Two Mounting Hole, Ground Terminal Block	19.64	4.59

27 05 29 Hangers And Supports For Communications Systems^(27 05)

See CSI section 26 05 29 00-0000 for hangers and supports.

27 05 29 00-0001 Communications And Low Voltage Cable Hooks (J-Hooks)^(27 05 29)

27 05 29 00-0002 Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks)^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0003	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12).....	6.52	2.29
For >50 To 100, Deduct			-0.28	
For >100 To 250, Deduct			-0.56	
For >250 To 500, Deduct			-1.06	
For >500, Deduct			-1.57	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.25	
For Work In Restricted Working Space, Add			1.38	
For Painted Powder Coated Finish, Add			0.39	
27 05 29 00-0004	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21).....	6.82	2.29
For >50 To 100, Deduct			-0.29	
For >100 To 250, Deduct			-0.57	
For >250 To 500, Deduct			-1.09	
For >500, Deduct			-1.60	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.25	
For Work In Restricted Working Space, Add			1.38	
For Painted Powder Coated Finish, Add			1.37	
For Low Friction Xylan® Coated Finish, Add			4.90	
27 05 29 00-0005	EA	2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32).....	7.28	2.29
For >50 To 100, Deduct			-0.30	
For >100 To 250, Deduct			-0.59	
For >250 To 500, Deduct			-1.12	
For >500, Deduct			-1.65	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.25	
For Work In Restricted Working Space, Add			1.38	
For Painted Powder Coated Finish, Add			1.69	
For Low Friction Xylan® Coated Finish, Add			6.09	
27 05 29 00-0006	EA	4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64).....	11.29	2.29
For >50 To 100, Deduct			-0.40	
For >100 To 250, Deduct			-0.79	
For >250 To 500, Deduct			-1.42	
For >500, Deduct			-2.05	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.25	
For Work In Restricted Working Space, Add			1.38	
For Painted Powder Coated Finish, Add			0.90	
For Low Friction Xylan® Coated Finish, Add			5.39	

27 05 29 00-0007 Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks)^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0008	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB)	7.22	2.29
For >50 To 100, Deduct			-0.30	
For >100 To 250, Deduct			-0.59	
For >250 To 500, Deduct			-1.12	
For >500, Deduct			-1.64	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.25	
For Work In Restricted Working Space, Add			1.38	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers And Supports For Communications Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0009	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB)	9.02	2.29
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.25	
			For >500, Deduct	-1.82	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.25	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0010	EA		2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB)	9.90	2.29
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.32	
			For >500, Deduct	-1.91	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.25	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0011	EA		4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB)	13.04	2.29
			For >50 To 100, Deduct	-0.44	
			For >100 To 250, Deduct	-0.88	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-2.22	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.25	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0012 Strut Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)					
Note: Excludes strut.					
27 05 29 00-0013	EA		3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-SC4)	7.56	2.29
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.14	
			For >500, Deduct	-1.67	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0014	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-SC4)	8.76	2.29
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.23	
			For >500, Deduct	-1.79	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0015	EA		2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4)	9.38	2.29
			For >50 To 100, Deduct	-0.35	
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.28	
			For >500, Deduct	-1.86	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0016	EA		4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4)	12.35	2.29
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.85	
			For >250 To 500, Deduct	-1.50	
			For >500, Deduct	-2.15	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0017 T-Bar Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)					
Note: Excludes T-Bar.					
27 05 29 00-0018	EA		3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-A28)	8.87	2.29
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.24	
			For >500, Deduct	-1.81	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0019	EA		1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-A28)	10.91	2.29
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.39	
			For >500, Deduct	-2.01	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0020	EA		2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28)	11.44	2.29
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.43	
			For >500, Deduct	-2.06	
			For Work In Restricted Working Space, Add	1.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0021			Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes threaded rod. See CSI section 26 05 29 00-0372 for threaded rod.		
27 05 29 00-0022	EA		3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6).....	7.40	2.29
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.60	
			For >250 To 500, Deduct	-1.13	
			For >500, Deduct	-1.66	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0023	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6)	7.67	2.29
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.15	
			For >500, Deduct	-1.69	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0024	EA		2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6).....	9.08	2.29
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.25	
			For >500, Deduct	-1.83	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0025			Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0372 for threaded rod, nuts and washers.		
27 05 29 00-0026	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB).....	8.92	2.29
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.24	
			For >500, Deduct	-1.81	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0027	EA		2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB)	9.58	2.29
			For >50 To 100, Deduct	-0.35	
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.29	
			For >500, Deduct	-1.88	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0028	EA		4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB)	12.86	2.29
			For >50 To 100, Deduct	-0.44	
			For >100 To 250, Deduct	-0.87	
			For >250 To 500, Deduct	-1.54	
			For >500, Deduct	-2.20	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0029			Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
27 05 29 00-0030	EA		3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A).....	8.83	2.29
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.24	
			For >500, Deduct	-1.80	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0031	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A).....	10.01	2.29
			For >50 To 100, Deduct	-0.37	
			For >100 To 250, Deduct	-0.73	
			For >250 To 500, Deduct	-1.32	
			For >500, Deduct	-1.92	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0032	EA		2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A).....	10.63	2.29
			For >50 To 100, Deduct	-0.38	
			For >100 To 250, Deduct	-0.76	
			For >250 To 500, Deduct	-1.37	
			For >500, Deduct	-1.98	
			For Work In Restricted Working Space, Add	1.38	
27 05 29 00-0033	EA		4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A).....	14.05	2.29
			For >50 To 100, Deduct	-0.47	
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-2.32	
			For Work In Restricted Working Space, Add	1.38	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers And Supports For Communications Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
27 05 29 00-0034 Adjustable Cable Supports (Caddy® CableCat CAT425) (27 05 29)					
27 05 29 00-0035	EA	Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	24.20		3.02
		For >50 To 100, Deduct	-0.83		
		For >100 To 250, Deduct	-1.67		
		For >250 To 500, Deduct	-2.96		
		For >500, Deduct	-4.25		
		For Installation On Concrete (Includes Drilling And Fastener), Add	2.39		
		For Work In Restricted Working Space, Add	2.75		
27 05 29 00-0036	EA	Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	24.65		3.02
		For >50 To 100, Deduct	-0.85		
		For >100 To 250, Deduct	-1.69		
		For >250 To 500, Deduct	-2.99		
		For >500, Deduct	-4.30		
		For Work In Restricted Working Space, Add	2.75		
27 05 29 00-0037	EA	Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	26.94		3.02
		For >50 To 100, Deduct	-0.90		
		For >100 To 250, Deduct	-1.80		
		For >250 To 500, Deduct	-3.16		
		For >500, Deduct	-4.52		
		For Work In Restricted Working Space, Add	2.75		
27 05 29 00-0038	EA	>1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	24.13		3.02
		For >50 To 100, Deduct	-0.83		
		For >100 To 250, Deduct	-1.66		
		For >250 To 500, Deduct	-2.95		
		For >500, Deduct	-4.24		
		For Work In Restricted Working Space, Add	2.75		
27 05 29 00-0039	EA	Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	25.19		3.02
		For >50 To 100, Deduct	-0.86		
		For >100 To 250, Deduct	-1.72		
		For >250 To 500, Deduct	-3.03		
		For >500, Deduct	-4.35		
		For Work In Restricted Working Space, Add	2.75		
27 05 29 00-0040	EA	>1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	26.24		3.02
		For >50 To 100, Deduct	-0.88		
		For >100 To 250, Deduct	-1.77		
		For >250 To 500, Deduct	-3.11		
		For >500, Deduct	-4.45		
		For Work In Restricted Working Space, Add	2.75		
27 05 29 00-0041	EA	Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	24.84		3.02
		For >50 To 100, Deduct	-0.85		
		For >100 To 250, Deduct	-1.70		
		For >250 To 500, Deduct	-3.01		
		For >500, Deduct	-4.31		
		For Work In Restricted Working Space, Add	2.75		
27 05 33 Conduits And Backboxes For Communications Systems (27 05)					
See CSI section 26 05 33 00-0000 for conduit and boxes.					
27 05 39 Surface Raceways For Communications Systems (27 05)					
See CSI section 26 05 33 00-0000 for surface raceways.					
27 05 43 Underground Ducts And Raceways For Communications Systems (27 05)					
See CSI section 26 05 43 00-0000 for underground ducts and raceways.					
27 05 46 Utility Poles For Communications Systems (27 05)					
See CSI section 26 05 46 00-0000 for utility poles.					
27 05 53 Identification For Communications Systems (27 05)					
See CSI section 26 05 53 00-0000 for identification.					
27 10 Structured Cabling (27)					
Note: Includes testing.					
27 11 Communications Equipment Room Fittings (27 10)					
27 11 16 Communications Cabinets, Racks, Frames, And Enclosures (27 11)					
27 11 16 00-0001 3/4" Fire Retardant Plywood Backboards (27 11 16)					
27 11 16 00-0002	EA	4' x 4' x 3/4" Fire Retardant Plywood Phone Backboard	70.32		23.79
		For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	43.84		
27 11 16 00-0003	EA	4' x 8' x 3/4" Fire Retardant Plywood Phone Backboard	140.63		47.58
		For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	87.69		
27 11 16 00-0004 Terminal Cabinets (27 11 16)					
27 11 16 00-0005	EA	12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	248.90		68.62



Communications			27
Structured Cabling			27 10
Communications Equipment Room Fittings			27 11

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0006 EA 18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	310.47	75.48
27 11 16 00-0007 EA 24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	357.27	86.93
27 11 16 00-0008 EA 18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	370.59	89.21
27 11 16 00-0009 EA 24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	446.96	91.50
27 11 16 00-0010 EA 26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard	549.69	102.93
27 11 16 00-0011 EA 24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	561.06	100.64
27 11 16 00-0012 EA 30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	725.59	143.37
27 11 16 00-0013 EA 36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	777.70	157.56
27 11 16 00-0014 EA 42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	931.12	166.43
27 11 16 00-0015 EA 30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	768.95	137.25
27 11 16 00-0016 EA 36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	831.69	148.68
27 11 16 00-0017 EA 48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,038.74	190.59
27 11 16 00-0018 EA 54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,250.63	238.25
27 11 16 00-0019 EA 48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	1,405.98	235.61
27 11 16 00-0020 EA 60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	1,620.57	286.66
27 11 16 00-0021 Equipment Racks And Cable Managers (27 11 16)		
27 11 16 00-0022 Equipment Racks (27 11 16 00-0021) Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.		
27 11 16 00-0023 Standard Equipment Racks (27 11 16 00-0023)		
27 11 16 00-0024 19" Width, Standard Equipment Racks (27 11 16 00-0023)		
27 11 16 00-0025 EA 84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03)	458.77	146.40
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	8.30	
27 11 16 00-0026 EA 96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15)	638.62	155.55
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	16.38	
27 11 16 00-0027 EA 108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08)	690.00	164.69
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	18.03	
27 11 16 00-0028 Universal Equipment Racks (27 11 16 00-0028)		
27 11 16 00-0029 Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0030 19" Width, EIA Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0031 EA 36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31)	599.42	128.10
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	17.16	
27 11 16 00-0032 EA 48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20)	655.43	130.38
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	19.73	
27 11 16 00-0033 EA 60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19)	654.46	132.67
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	19.46	
27 11 16 00-0034 EA 66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00)	671.33	134.95
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	20.07	
27 11 16 00-0035 EA 72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01)	688.00	137.25
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	20.68	
27 11 16 00-0036 EA 78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02)	706.06	139.53
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	21.35	
27 11 16 00-0037 EA 84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03)	600.62	141.82
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	15.85	
27 11 16 00-0038 EA 90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05)	741.13	144.11
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	22.65	
27 11 16 00-0039 EA 96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15)	767.49	146.40
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	23.74	
27 11 16 00-0040 EA 102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17)	790.48	148.68
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	24.66	
27 11 16 00-0041 EA 108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08)	795.99	150.97
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	24.70	
27 11 16 00-0042 23" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0043 EA 36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31)	634.64	128.10
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	18.92	
27 11 16 00-0044 EA 48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20)	656.73	130.38
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	19.80	
27 11 16 00-0045 EA 60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19)	676.15	132.67
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	20.54	
27 11 16 00-0046 EA 66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00)	712.58	134.95
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	22.13	
27 11 16 00-0047 EA 72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01)	730.46	137.25
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	22.80	
27 11 16 00-0048 EA 78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02)	749.93	139.53
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	23.54	
27 11 16 00-0049 EA 84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03)	645.00	141.82
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	18.07	
27 11 16 00-0050 EA 90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05)	787.70	144.11
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	24.97	
27 11 16 00-0051 EA 96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15)	816.25	146.40
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	26.17	
27 11 16 00-0052 EA 102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17)	841.18	148.68
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.19	

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0053	EA	108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	846.77 27.24	150.97
27 11 16 00-0054		35" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0055	EA	72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	790.16 25.78	137.25
27 11 16 00-0056	EA	84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	832.22 27.43	141.82
27 11 16 00-0057		UL Listed Universal Equipment Racks (27 11 16 00-0028)		
		Note: UL listed as a communications circuit accessory.		
27 11 16 00-0058		19" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0059	EA	36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	633.75 18.88	128.10
27 11 16 00-0060	EA	48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	685.47 21.24	130.38
27 11 16 00-0061	EA	60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	695.95 21.53	132.67
27 11 16 00-0062	EA	66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	711.50 22.08	134.95
27 11 16 00-0063	EA	72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	729.33 22.74	137.25
27 11 16 00-0064	EA	78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	748.75 23.48	139.53
27 11 16 00-0065	EA	84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	767.39 24.19	141.82
27 11 16 00-0066	EA	90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	786.45 24.91	144.11
27 11 16 00-0067	EA	96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	814.98 26.11	146.40
27 11 16 00-0068	EA	102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	839.83 27.12	148.68
27 11 16 00-0069	EA	108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	845.36 27.17	150.97
27 11 16 00-0070		23" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0071	EA	36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	672.53 20.82	128.10
27 11 16 00-0072	EA	48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	738.06 23.86	130.38
27 11 16 00-0073	EA	60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	747.43 24.10	132.67
27 11 16 00-0074	EA	66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	756.84 24.35	134.95
27 11 16 00-0075	EA	72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	776.05 25.08	137.25
27 11 16 00-0076	EA	78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	797.02 25.90	139.53
27 11 16 00-0077	EA	84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	817.08 26.67	141.82
27 11 16 00-0078	EA	90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	837.63 27.47	144.11
27 11 16 00-0079	EA	96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	868.59 28.79	146.40
27 11 16 00-0080	EA	102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	895.56 29.91	148.68
27 11 16 00-0081	EA	108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	901.33 29.97	150.97
27 11 16 00-0082		4-Post Equipment Racks And Server Frames (27 11 16 00-0022)		
27 11 16 00-0083		4-Post Equipment Racks (27 11 16 00-0082)		
27 11 16 00-0084	EA	19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,282.34 41.24	228.74
27 11 16 00-0085	EA	19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,400.74 46.25	237.89
27 11 16 00-0086	EA	19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,512.40 50.92	247.04
27 11 16 00-0087		4-Post Server Frame (27 11 16 00-0082)		
27 11 16 00-0088	EA	19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,318.62 43.06	228.74
27 11 16 00-0089		Cable Managers (27 11 16 00-0021)		
27 11 16 00-0090		Horizontal Cable Managers (27 11 16 00-0089)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0091 Single-Sided, Horizontal Cable Managers (27 11 16 00-0090)		
27 11 16 00-0092 EA 1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719)	74.44	9.15
27 11 16 00-0093 EA 1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723)	82.95	9.15
27 11 16 00-0094 EA 1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701)	62.05	9.15
27 11 16 00-0095 EA 2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719)	75.71	9.15
27 11 16 00-0096 EA 2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723)	88.90	9.15
27 11 16 00-0097 EA 2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702)	68.79	9.15
27 11 16 00-0098 EA 3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719)	102.27	9.15
27 11 16 00-0099 EA 3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723)	116.50	9.15
27 11 16 00-0100 EA 3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703)	82.25	9.15
27 11 16 00-0101 Double-Sided, Horizontal Cable Managers (27 11 16 00-0090)		
27 11 16 00-0102 EA 1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719)	92.58	9.15
27 11 16 00-0103 EA 1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723)	103.81	9.15
27 11 16 00-0104 EA 2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719)	97.44	9.15
27 11 16 00-0105 EA 2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723)	113.52	9.15
27 11 16 00-0106 EA 3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719)	126.26	9.15
27 11 16 00-0107 EA 3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723)	141.45	9.15
27 11 16 00-0108 Vertical Cable Managers (27 11 16 00-0089)		
27 11 16 00-0109 Single-Sided, Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0110 EA 3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701)	167.13	13.73
27 11 16 00-0111 EA 6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701)	236.12	13.73
27 11 16 00-0112 EA 10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701)	380.85	13.73
27 11 16 00-0113 EA 12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701)	431.33	13.73
27 11 16 00-0114 EA 3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703)	178.91	13.73
27 11 16 00-0115 EA 6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703)	254.63	13.73
27 11 16 00-0116 EA 10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703)	414.50	13.73
27 11 16 00-0117 EA 12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703)	464.99	13.73
27 11 16 00-0118 EA 3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715)	202.47	13.73
27 11 16 00-0119 EA 6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715)	279.88	13.73
27 11 16 00-0120 EA 10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715)	464.99	13.73
27 11 16 00-0121 EA 12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715)	515.48	13.73
27 11 16 00-0122 Double-Sided, Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0123 EA 3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701)	242.85	13.73
27 11 16 00-0124 EA 6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701)	286.61	13.73
27 11 16 00-0125 EA 10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701)	464.99	13.73
27 11 16 00-0126 EA 12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701)	549.13	13.73
27 11 16 00-0127 EA 3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703)	263.05	13.73
27 11 16 00-0128 EA 6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703)	306.80	13.73
27 11 16 00-0129 EA 10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703)	498.65	13.73
27 11 16 00-0130 EA 12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703)	582.79	13.73
27 11 16 00-0131 EA 3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715)	289.97	13.73
27 11 16 00-0132 EA 6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715)	333.73	13.73
27 11 16 00-0133 EA 10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715)	549.13	13.73
27 11 16 00-0134 EA 12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715)	633.27	13.73
27 11 16 00-0135 Accessories For Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0136 EA Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716)	102.44	9.15
27 11 16 00-0137 EA Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717)	109.17	9.15
27 11 16 00-0138 EA Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718)	115.91	9.15
27 11 16 00-0139 EA Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726)	105.81	9.15
27 11 16 00-0140 EA Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727)	115.91	9.15
27 11 16 00-0141 EA Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728)	126.00	9.15
27 11 16 00-0142 EA Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746)	119.27	9.15
27 11 16 00-0143 EA Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747)	129.37	9.15
27 11 16 00-0144 EA Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748)	139.46	9.15
27 11 16 00-0145 EA Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756)	126.00	9.15
27 11 16 00-0146 EA Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757)	139.46	9.15
27 11 16 00-0147 EA Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758)	149.56	9.15
27 11 16 00-0148 EA Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001)	85.61	9.15
27 11 16 00-0149 EA Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701)	99.08	9.15
27 11 16 00-0150 EA Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001)	103.62	9.15
27 11 16 00-0151 EA Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001)	65.42	9.15
27 11 19 Communications Termination Blocks And Patch Panels (27 11)		
Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 27 14 43 00-0074 for labeling.		
27 11 19 00-0001 Computer Network Components (27 11 19)		
27 11 19 00-0002 Ethernet Patch Panels (27 11 19 00-0001)		
27 11 19 00-0003 EA 12 Port, Category 5E Patch Panel	190.79	45.75
27 11 19 00-0004 EA 24 Port, Category 5E Patch Panel	275.51	45.75

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0005 EA 32 Port, Category 5E Patch Panel	355.68	45.75
27 11 19 00-0006 EA 48 Port, Category 5E Patch Panel	430.37	45.75
27 11 19 00-0007 EA 64 Port, Category 5E Patch Panel	511.83	57.19
27 11 19 00-0008 EA 96 Port, Category 5E Patch Panel	789.49	68.62
27 11 19 00-0009 EA 12 Port, Category 6 Patch Panel.....	228.14	45.75
27 11 19 00-0010 EA 24 Port, Category 6 Patch Panel.....	280.98	45.75
27 11 19 00-0011 EA 48 Port, Category 6 Patch Panel.....	470.46	45.75
27 11 19 00-0012 EA 96 Port, Category 6 Patch Panel.....	866.01	68.62
27 11 19 00-0013 EA Up To 5 Cables, Terminate One End Of A 4 Pair Cable To Category "X" Specifications	32.42	
27 11 19 00-0014 EA >5 To 10 Cables, Terminate One End Of A 4 Pair Cable To Category "X" Specifications.....	27.01	
27 11 19 00-0015 EA >10 Cables, Terminate One End Of A 4 Pair Cable To Category "X" Specifications.....	16.21	
27 11 19 00-0016 EA Up To 20 Pairs, Terminate One End Of A Twisted Pair Of Wires.....	8.91	
27 11 19 00-0017 EA >20 To 40 Pairs, Terminate One End Of A Twisted Pair Of Wires.....	7.43	
27 11 19 00-0018 EA >40 Pairs, Terminate One End Of A Twisted Pair Of Wires.....	4.46	
27 11 19 00-0019 Fiber Optic Cable Patch Panels And Enclosures (27 11 19 00-0001)		
27 11 19 00-0020 Fiber Optic Cable Connector Housings (27 11 19 00-0019)		
27 11 19 00-0021 Wall Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0020)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0049 for connector panels.		
27 11 19 00-0022 EA 1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	102.04	20.58
27 11 19 00-0023 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	149.42	20.58
27 11 19 00-0024 EA 4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	219.52	20.58
27 11 19 00-0025 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	325.02	34.31
27 11 19 00-0026 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	449.82	34.31
27 11 19 00-0027 Rack Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0020)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0049 for connector panels.		
27 11 19 00-0028 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	337.81	34.31
27 11 19 00-0029 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	385.40	34.31
27 11 19 00-0030 EA 6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	414.50	34.31
27 11 19 00-0031 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	484.82	34.31
27 11 19 00-0032 Rack Mount, Fiber Optic Cable Pretium® Connector Housings (27 11 19 00-0020)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0049 for connector panels.		
27 11 19 00-0033 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	419.36	34.31
For Splice Tray Bracket, Add	44.02	
27 11 19 00-0034 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	490.14	34.31
For Splice Tray Bracket, Add	48.13	
27 11 19 00-0035 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	609.42	34.31
For Splice Tray Bracket, Add	175.36	
27 11 19 00-0036 Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings (27 11 19 00-0020)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0049 for connector panels.		
27 11 19 00-0037 EA 8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	530.38	34.31
27 11 19 00-0038 EA 12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	676.31	34.31
27 11 19 00-0039 EA 24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	764.78	34.31
27 11 19 00-0040 EA 48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	990.39	34.31
27 11 19 00-0041 Wall Mount, Fiber Optic Cable Industrial Connector Housings (27 11 19 00-0020)		
Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0049 for connector panels.		
27 11 19 00-0042 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	471.63	20.58
27 11 19 00-0043 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	653.52	34.31
27 11 19 00-0044 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	685.48	34.31
27 11 19 00-0045 Wall Mount, Fiber Optic Cable Environmental Connector Housings (27 11 19 00-0020)		
Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0049 for connector panels.		
27 11 19 00-0046 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	493.71	20.58
27 11 19 00-0047 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	653.13	34.31
27 11 19 00-0048 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	766.18	34.31
27 11 19 00-0049 Fiber Optic Cable Connector Panels (27 11 19 00-0019)		
27 11 19 00-0050 SC Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0049)		
27 11 19 00-0051 EA 6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	65.25	4.58
27 11 19 00-0052 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	70.74	4.58
27 11 19 00-0053 EA 8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	79.25	4.58
27 11 19 00-0054 EA 8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	86.56	4.58



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0055 EA 12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	107.26	4.58
27 11 19 00-0056 EA 12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	118.20	4.58
27 11 19 00-0057 SC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0049)		
27 11 19 00-0058 EA 6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	62.83	4.58
27 11 19 00-0059 EA 6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	64.11	4.58
27 11 19 00-0060 EA 8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	76.03	4.58
27 11 19 00-0061 EA 8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	77.75	4.58
27 11 19 00-0062 EA 12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	102.44	4.58
27 11 19 00-0063 EA 12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	104.99	4.58
27 11 19 00-0064 LC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0049)		
27 11 19 00-0065 EA 6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	67.77	4.58
27 11 19 00-0066 EA 6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	74.23	4.58
27 11 19 00-0067 EA 8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	82.61	4.58
27 11 19 00-0068 EA 8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	91.23	4.58
27 11 19 00-0069 EA 12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	112.31	4.58
27 11 19 00-0070 EA 12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	125.22	4.58
27 11 19 00-0071 EA 16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	142.01	4.58
27 11 19 00-0072 EA 16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	159.22	4.58
27 11 19 00-0073 EA 24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	201.38	4.58
27 11 19 00-0074 EA 24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	207.38	4.58
27 11 19 00-0075 ST Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0049)		
27 11 19 00-0076 EA 6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	54.39	4.58
27 11 19 00-0077 EA 6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	58.54	4.58
27 11 19 00-0078 EA 8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	64.77	4.58
27 11 19 00-0079 EA 8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	70.31	4.58
27 11 19 00-0080 EA 12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	85.53	4.58
27 11 19 00-0081 EA 12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	93.84	4.58
27 11 19 00-0082 MT-RJ, Fiber Optic Cable Connector Panels (27 11 19 00-0049)		
27 11 19 00-0083 EA 12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel	67.39	4.58
27 11 19 00-0084 EA 12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel	100.38	4.58
27 11 19 00-0085 Fiber Optic Cable Pretium Edge® Modules (27 11 19 00-0049)		
27 11 19 00-0086 EA 12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module	573.29	4.58
27 11 19 00-0087 EA 12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	575.27	4.58
27 11 19 00-0088 Fiber Optic Cable Splice Housings (27 11 19 00-0019)		
27 11 19 00-0089 Wall Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0088)		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0090 EA 12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door.....	238.47	45.75
27 11 19 00-0091 Rack Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0088)		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0092 EA 12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	350.17	34.31
27 11 19 00-0093 EA 22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	355.31	34.31
27 11 19 00-0094 Fiber Optic Cable Splice Trays (27 11 19 00-0088)		
27 11 19 00-0095 EA Fiber Optic Cable Splice Tray.....	67.85	11.43
27 11 19 00-0096 Fiber Optic Cable Jumper Management Panels (27 11 19 00-0019)		
Note: Includes mounting hardware.		
27 11 19 00-0097 EA Rack Mount, Fiber Optic Cable Jumper Management Panel.....	134.33	34.31
27 11 19 00-0098 Miscellaneous Accessories (27 11 19 00-0001)		
27 11 19 00-0099 EA Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	49.53	
27 11 19 00-0100 EA Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	65.66	
27 11 19 00-0101 EA Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	71.90	
27 11 19 00-0102 EA Wall Mount Bracket For 96 Port Patch Panel.....	80.21	
27 11 19 00-0103 EA Lightning Protection Plus Stainless Steel Modules, Siemon.....	314.87	45.75
27 11 19 00-0104 Telephone Components (27 11 19)		
27 11 19 00-0105 Terminal Blocks With Wide Range Of 22-8 AWG (27 11 19 00-0104)		
27 11 19 00-0106 EA Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG	24.98	9.16
27 11 19 00-0107 EA Terminal Block, Fuse Holder 600 Volt, 6.3 Amp With Wire Range 22-8 AWG.....	43.31	9.16

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27 11 19 00-0108 EA Terminal Block, Fuse Holder 600 Volt, 10 Amp With Wire Range 22-8 AWG	35.81	9.16
27 11 19 00-0109 EA Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG	19.99	9.16
27 11 19 00-0110 EA Flat Terminal Block Connection With Wire Range 22-8 AWG	14.23	6.41
27 11 19 00-0111 EA Ground Terminal Block With Wire Range 22-8 AWG	25.78	9.16
27 11 19 00-0112 EA Terminal Block, Solderless Box With Lug 600 Volt, 60 Amp With Wire Range 22-8 AWG	19.99	9.16
27 11 19 00-0113 EA Terminal Block, Mini Box Lug 300 Volt, 30 Amp With Wire Range 22-8 AWG	14.11	6.41
27 11 19 00-0114 EA Flat Terminal Block Connection 300 Volt, 20 Amp With Wire Range 22-8 AWG	14.03	6.41
27 11 19 00-0115 EA Self Lifting Terminal Block, 300 Volt, 40 Amp Wire Connection With Wire Range 22-12 AWG	14.39	6.41
27 11 19 00-0116 Terminal Block Mounting Channel (27 11 19 00-0104)		
27 11 19 00-0117 EA Terminal Block Mounting Channel, 5 M Galvanized Steel	13.07	4.59
27 11 19 00-0118 EA Terminal Block Mounting Channel, 1 M Galvanized Steel	16.28	4.59
27 11 19 00-0119 EA Terminal Block Mounting Channel, 2 M Galvanized Steel	21.83	4.59
27 11 19 00-0120 EA Terminal Block Mounting Channel, 5 M Bi-Chrome Zinc	16.41	5.50
27 11 19 00-0121 EA Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc	21.68	5.50
27 11 19 00-0122 EA Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc	30.24	5.50
27 11 19 00-0123 Outlet Termination Hardware (27 11 19 00-0104)		
27 11 19 00-0124 EA Telephone Outlet Blocks.....	23.00	4.59
27 11 19 00-0125 EA Phone Outlet Block For Floor Box.....	75.26	34.77
Note: Excludes box.		
27 11 19 00-0126 EA Fiber Optic "SC" Type Modular Bulkhead	61.04	20.58
27 11 19 00-0127 EA Fiber Optic "ST" Type Modular Bulkhead	61.04	20.58
27 11 19 00-0128 EA Type "F" Coaxial Connector Male.....	36.56	13.73
27 11 19 00-0129 EA Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector	87.97	22.88
27 11 19 00-0130 EA Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector	87.97	22.88
27 11 19 00-0131 EA Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	103.70	22.88
27 11 19 00-0132 EA Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector	103.70	22.88
27 11 19 00-0133 EA Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector	95.42	22.88
27 11 19 00-0134 EA Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5.....	785.06	114.37
27 11 19 00-0135 EA Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V.....	41.92	9.15
Note: Excludes cable terminations.		
27 11 19 00-0136 EA Connecting Block, 5-Pair	2.61	0.91
27 11 19 00-0137 EA Connecting Block, 4-Pair	2.79	0.91
27 11 19 00-0138 EA Plastic Label Holder, Transparent.....	10.71	2.28
27 11 19 00-0139 EA Marked Label, White, 5-Pair	3.02	
27 11 19 00-0140 EA Marked Label, Blue, 4-Pair	3.02	
27 11 19 00-0141 Terminations in Manhole or Junction Box (27 11 19 00-0104)		
27 11 19 00-0142 EA 25 Pair Cable Termination In Manhole Or Junction Box	146.40	
27 11 19 00-0143 EA 50 Pair Cable Termination In Manhole Or Junction Box	292.79	
27 11 19 00-0144 EA 100 Pair Cable Termination In Manhole Or Junction Box	585.58	
27 11 19 00-0145 EA 150 Pair Cable Termination In Manhole Or Junction Box	878.37	
27 11 19 00-0146 EA 200 Pair Cable Termination In Manhole Or Junction Box	1,027.50	
27 11 19 00-0147 EA 300 Pair Cable Termination In Manhole Or Junction Box	1,540.80	
27 11 19 00-0148 EA 400 Pair Cable Termination In Manhole Or Junction Box	1,937.90	
27 11 19 00-0149 EA 500 Pair Cable Termination In Manhole Or Junction Box	2,422.83	
27 11 19 00-0150 EA 750 Pair Cable Termination In Manhole Or Junction Box	3,634.22	
27 11 19 00-0151 EA 1,000 Pair Cable Termination In Manhole Or Junction Box	4,407.35	
27 11 19 00-0152 EA 1,200 Pair Cable Termination In Manhole Or Junction Box	5,023.20	
27 11 23 Communications Cable Management and Ladder Rack (27 11)		
27 11 23 00-0001 Equipment Supports (27 11 23)		
27 11 23 00-0002 EA Environmental Enclosure, NEMA 4x SS, 6' Free Standing	17,016.42	720.96
27 11 23 00-0003 EA DVR Enclosure	1,261.75	180.23
27 11 23 00-0004 EA Wall Mount Type 4X Enclosure 24.00x30.00x8.00 Stainless Steel Type 316	4,508.40	360.45
27 11 23 00-0005 EA Panel, NEMA 12/27.00x21.00.....	357.83	90.11
27 11 23 00-0006 EA Panel, NEMA 12/8.75x6.88.....	107.41	90.11
27 11 23 00-0007 EA Clamp Assembly, Fast Opening, Stainless Steel Type 304	135.10	90.11
27 11 23 00-0008 EA Wall-Mount Type 4x Enclosure 24.00x30.00x8.00 Stainless Steel Type 316	3,877.61	90.11
27 11 23 00-0009 EA 12" x 5'-11" Tubular Runway.....	79.39	21.95
27 11 23 00-0010 EA 12" x 9'-11" Tubular Runway.....	137.00	36.59
27 11 23 00-0011 EA Shelf Bracket Support For Tubular Runway.....	25.23	6.86
27 11 23 00-0012 EA Straight Clamp Hardware For Tubular Runway	11.53	4.58
27 11 23 00-0013 EA Corner Clamp Hardware For Tubular Runway.....	12.12	4.58
27 11 23 00-0014 EA 90 Degree Edge Clamp Hardware For Tubular Runway.....	26.79	8.24
27 11 23 00-0015 EA Wall Angle Assembly Hardware For 12" Wide Tubular Runway	55.33	13.73
27 11 23 00-0016 EA J-Bolt Hardware For Tubular Runway	5.33	2.01
27 11 23 00-0017 EA T Bracket Hardware For Tubular Runway.....	29.35	11.43
27 11 23 00-0018 EA 110 Jumper Trough (Commscope 107831133)	26.30	4.58
27 11 23 00-0019 LF Velcro CMP.....	2.14	0.91

27 14 Communications Cabling (27 10)

27 14 13 Communications Copper Cabling (27 14)



Communications			27
Structured Cabling			27 10
Communications Cabling			27 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 13 Communications Copper Cable Splicing and Terminations (27 14 13)		
27 14 13 13-0001 Building Entrance Terminals (27 14 13 13)		
27 14 13 13-0002 EA 25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	1,378.56	200.76
27 14 13 13-0003 EA 50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	1,898.69	334.59
27 14 13 13-0004 EA 100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	2,746.93	535.76
27 14 13 13-0005 Modular Plugs For Copper Communications Cable (27 14 13 13)		
27 14 13 13-0006 EA Modular Plug For Non-Shielded Copper Communications Cable.....	21.45	
Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.		
For >5 To 10, Deduct	-2.74	
For >10, Deduct	-5.48	
27 14 13 13-0007 EA Modular Plug For Shielded Copper Communications Cable.....	24.40	
Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.		
For >5 To 10, Deduct	-3.08	
For >10, Deduct	-6.16	
27 14 13 13-0008 Testing And Certification Of Copper Communications Cable (27 14 13 13)		
Note: Use for existing systems.		
27 14 13 13-0009 PR Test 1-Pair Of A Copper Communications Cable For Continuity.....	4.58	
For >25-Pair, Deduct	-1.83	
27 14 13 13-0010 PR Certify 1-Pair Of A Copper Communications Cable.....	6.86	
For >25-Pair, Deduct	-2.74	
27 14 13 13-0011 PR Certify And Document 1-Pair Of A Copper Communications Cable.....	10.98	
For >25-Pair, Deduct	-4.38	
27 14 13 13-0012 PR Test 4-Pair Cat 5-7 Telecommunications Cable For Continuity.....	18.30	
For >25-Pair, Deduct	-7.30	
27 14 13 13-0013 PR Certify 4-Pair Cat 5-7 Telecommunications Cable.....	27.45	
For >25-Pair, Deduct	-10.96	
27 14 13 13-0014 PR Certify And Document 4-Pair Cat 5-7 Telecommunications Cable.....	43.92	
For >25-Pair, Deduct	-17.53	
27 14 13 13-0015 Communications Termination Blocks (27 14 13 13)		
27 14 13 13-0016 EA 100-Pair, 110 Block With Legs.....	39.97	11.43
27 14 13 13-0017 EA 300-Pair, 110 Block With Legs.....	64.82	11.43
27 14 13 13-0018 EA Clear Label Holder For 110 Wiring Block.....	9.63	4.58
27 14 13 13-0019 EA 4-Pair, 110C Connecting Block.....	5.33	2.28
27 14 13 13-0020 EA 5-Pair, 110C Connecting Block.....	5.42	2.28
27 14 13 13-0021 EA 100-Pair, 110 Jack Panel System.....	198.69	13.73
Note: Includes twelve 8-pin modular jacks and mounting legs.		
27 14 13 13-0022 EA 300-Pair, 110 Jack Panel System.....	462.58	13.73
Note: Includes twelve 8-pin modular jacks and mounting legs.		
27 14 13 16 Communications Copper Cabling (27 14 13)		
27 14 13 16-0001 Solid Conductor Low Voltage Cable (27 14 13 16)		
27 14 13 16-0002 Shielded, Low Voltage Cable, Pulled In Conduit (27 14 13 16-0001)		
27 14 13 16-0003 #12 AWG, Shielded, Low Voltage Cable, Placed In Conduit (27 14 13 16-0002)		
27 14 13 16-0004 MLF 1 Pair #12 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable.....	1,864.80	828.11
For #10 AWG, Add	435.95	
For Installation On Exposed Surface, Deduct	-276.06	
For Work In Restricted Working Space, Add	414.09	
27 14 13 16-0005 MLF 2 Pair #12 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable.....	2,323.47	857.39
For #10 AWG, Add	580.92	
For Installation On Exposed Surface, Deduct	-285.88	
For Work In Restricted Working Space, Add	428.82	
27 14 13 16-0006 MLF 3 Pair #12 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable.....	2,724.37	887.50
For #10 AWG, Add	706.81	
For Installation On Exposed Surface, Deduct	-295.75	
For Work In Restricted Working Space, Add	443.62	
27 14 13 16-0007 MLF 4 Pair #12 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable.....	3,149.11	917.62
For #10 AWG, Add	840.33	
For Installation On Exposed Surface, Deduct	-305.96	
For Work In Restricted Working Space, Add	458.94	
27 14 13 16-0008 MLF 5 Pair #12 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable.....	3,603.84	979.51
For #10 AWG, Add	976.98	
For Installation On Exposed Surface, Deduct	-326.60	
For Work In Restricted Working Space, Add	489.90	
27 14 13 16-0009 MLF 6 Pair #12 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable.....	4,017.32	1,040.57
For #10 AWG, Add	1,100.20	
For Installation On Exposed Surface, Deduct	-346.95	
For Work In Restricted Working Space, Add	520.42	
27 14 13 16-0010 MLF 8 Pair #12 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable.....	4,343.95	1,164.37
For #10 AWG, Add	1,181.27	
For Installation On Exposed Surface, Deduct	-388.05	
For Work In Restricted Working Space, Add	582.08	

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0011	MLF	12 Pair #12 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For #10 AWG, Add For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	5,762.64 1,569.17 -511.54 767.32	1,534.93
27 14 13 16-0012	MLF	24 Pair #12 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For #10 AWG, Add For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	8,584.47 2,341.85 -755.42 1,133.13	2,266.85
27 14 13 16-0013 #14 AWG, Shielded, Low Voltage Cable, Placed In Conduit (27 14 13 16-0002)				
27 14 13 16-0014	MLF	1 Pair #14 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,669.96 -241.41 362.11	724.39
27 14 13 16-0015	MLF	2 Pair #14 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,104.79 -250.11 375.16	750.32
27 14 13 16-0016	MLF	3 Pair #14 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,484.18 -258.80 388.21	776.25
27 14 13 16-0017	MLF	4 Pair #14 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,885.55 -267.67 401.51	803.02
27 14 13 16-0018	MLF	5 Pair #14 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,311.78 -285.74 428.61	857.39
27 14 13 16-0019	MLF	6 Pair #14 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,698.29 -303.47 455.21	910.92
27 14 13 16-0020	MLF	8 Pair #14 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,994.68 -339.61 509.41	1,018.82
27 14 13 16-0021	MLF	12 Pair #14 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	5,299.75 -447.51 671.27	1,342.53
27 14 13 16-0022	MLF	24 Pair #14 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	7,899.03 -661.15 991.72	1,983.28
27 14 13 16-0023 #16 AWG, Shielded, Low Voltage Cable, Placed In Conduit (27 14 13 16-0002)				
27 14 13 16-0024	MLF	1 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,485.86 -215.64 323.46	646.59
27 14 13 16-0025	MLF	2 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,770.83 -223.34 335.01	670.02
27 14 13 16-0026	MLF	3 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,203.22 -231.03 346.55	693.43
27 14 13 16-0027	MLF	4 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,557.78 -239.06 358.60	716.86
27 14 13 16-0028	MLF	5 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,933.86 -255.12 382.69	765.37
27 14 13 16-0029	MLF	6 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,275.61 -271.02 406.52	813.05
27 14 13 16-0030	MLF	7 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,406.87 -287.08 430.62	861.57
27 14 13 16-0031	MLF	8 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,538.94 -303.30 454.96	910.08
27 14 13 16-0032	MLF	9 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,972.22 -322.54 483.82	967.80
27 14 13 16-0033	MLF	12 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	4,694.48 -399.58 599.37	1,198.67
27 14 13 16-0034	MLF	24 Pair #16 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	6,996.35 -590.30 885.45	1,770.81
27 14 13 16-0035 #18 AWG, Shielded, Low Voltage Cable, Placed In Conduit (27 14 13 16-0002)				
27 14 13 16-0036	MLF	1 Pair #18 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,236.40 -189.71 284.57	569.64
27 14 13 16-0037	MLF	2 Pair #18 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,514.02 -196.57 294.86	589.71



Communications			27
Structured Cabling			27 10
Communications Cabling			27 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0038 MLF 3 Pair #18 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,757.17 -203.43 305.15	609.79
27 14 13 16-0039 MLF 4 Pair #18 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,013.47 -210.29 315.44	630.70
27 14 13 16-0040 MLF 5 Pair #18 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,293.41 -224.51 336.76	673.36
27 14 13 16-0041 MLF 6 Pair #18 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,548.89 -238.56 357.85	715.18
27 14 13 16-0042 MLF 8 Pair #18 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,762.20 -266.84 400.25	800.50
27 14 13 16-0043 MLF 12 Pair #18 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,662.28 -351.65 527.48	1,054.80
27 14 13 16-0044 MLF 24 Pair #18 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	5,453.29 -519.45 779.18	1,558.35
27 14 13 16-0045 #20 AWG, Shielded, Low Voltage Cable, Placed In Conduit (27 14 13 16-0002)		
27 14 13 16-0046 MLF 1 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,083.61 -172.48 258.72	517.78
27 14 13 16-0047 MLF 2 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,302.75 -178.67 268.01	536.18
27 14 13 16-0048 MLF 3 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,492.99 -184.86 277.29	555.00
27 14 13 16-0049 MLF 4 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,693.35 -191.22 286.83	573.83
27 14 13 16-0050 MLF 5 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,919.86 -204.01 306.02	612.30
27 14 13 16-0051 MLF 6 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,126.18 -216.81 325.22	650.77
27 14 13 16-0052 MLF 8 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	2,326.25 -242.58 363.86	727.73
27 14 13 16-0053 MLF 12 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	3,061.71 -319.70 479.55	959.43
27 14 13 16-0054 MLF 24 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	4,556.17 -472.27 708.41	1,416.99
27 14 13 16-0055 MLF 25 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	4,859.91 -483.48 725.22	1,450.45
27 14 13 16-0056 MLF 36 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	5,807.66 -562.95 844.42	1,688.84
27 14 13 16-0057 MLF 40 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	6,232.93 -602.59 903.89	1,807.62
27 14 13 16-0058 MLF 50 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	7,411.50 -752.99 1,129.49	2,259.32
27 14 13 16-0059 MLF 100 Pair #20 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	10,117.12 -991.38 1,487.07	2,974.50
27 14 13 16-0060 #22 AWG, Shielded, Low Voltage Cable, Placed In Conduit (27 14 13 16-0002)		
27 14 13 16-0061 MLF 1 Pair #22 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	891.97 -155.25 232.88	465.91
27 14 13 16-0062 MLF 2 Pair #22 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	962.20 -160.77 241.16	482.64
27 14 13 16-0063 MLF 3 Pair #22 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,049.52 -166.46 249.69	499.37
27 14 13 16-0064 MLF 4 Pair #22 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,144.94 -172.15 258.22	516.10
27 14 13 16-0065 MLF 5 Pair #22 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add	1,283.05 -183.69 275.54	551.23

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0066 MLF 6 Pair #22 AWG, Solid, Shielded, Low Voltage, Placed In Conduit, Alarm And Communications Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,423.43 -194.73 292.10	583.86
27 14 13 16-0067 Triad (27 14 13 16-0002)		
27 14 13 16-0068 MLF 1 Triad #16 AWG, Stranded, Low Voltage, Placed In Conduit.....	1,625.29	693.43
27 14 13 16-0069 MLF 4 Triad #20 AWG, Stranded, Low Voltage, Placed In Conduit.....	2,163.84	959.43
27 14 13 16-0070 MLF 8 Triad #20 AWG, Stranded, Low Voltage, Placed In Conduit.....	3,313.51	1,416.99
27 14 13 16-0071 MLF 12 Triad #20 AWG, Stranded, Low Voltage, Placed In Conduit.....	4,064.44	1,688.84
27 14 13 16-0072 MLF 24 Triad #20 AWG, Stranded, Low Voltage, Placed In Conduit.....	6,532.62	2,616.49
27 14 13 16-0073 MLF 36 Triad #20 AWG, Stranded, Low Voltage, Placed In Conduit.....	7,486.05	2,974.50
27 14 13 16-0074 Shielded, Low Voltage Cable Buried In Trench (27 14 13 16-0001) Note: Excludes excavation.		
27 14 13 16-0075 MLF 1 Pair #14 AWG, Solid, Low Voltage, Direct Burial, Alarm And Communications Cable	1,562.33	
27 14 13 16-0076 MLF 2 Pair #14 AWG, Solid, Low Voltage, Direct Burial, Alarm And Communications Cable	1,992.24	
27 14 13 16-0077 MLF 3 Pair #14 AWG, Solid, Low Voltage, Direct Burial, Alarm And Communications Cable	2,367.74	
27 14 13 16-0078 MLF 4 Pair #14 AWG, Solid, Low Voltage, Direct Burial, Alarm And Communications Cable	2,765.78	
27 14 13 16-0079 MLF 5 Pair #14 AWG, Solid, Low Voltage, Direct Burial, Alarm And Communications Cable	3,183.48	
27 14 13 16-0080 MLF 6 Pair #14 AWG, Solid, Low Voltage, Direct Burial, Alarm And Communications Cable	3,562.54	
27 14 13 16-0081 Shielded, Low Voltage Cable Installed On Poles, Aerially (27 14 13 16-0001)		
27 14 13 16-0082 MLF 1 Pair #14 AWG, Solid, Low Voltage, On Poles, Alarm And Communications Cable	1,642.39	448.12
27 14 13 16-0083 MLF 2 Pair #14 AWG, Solid, Low Voltage, On Poles, Alarm And Communications Cable	2,117.98	480.10
27 14 13 16-0084 MLF 3 Pair #14 AWG, Solid, Low Voltage, On Poles, Alarm And Communications Cable	2,787.63	606.94
27 14 13 16-0085 MLF 4 Pair #14 AWG, Solid, Low Voltage, On Poles, Alarm And Communications Cable	3,394.92	702.00
27 14 13 16-0086 MLF 5 Pair #14 AWG, Solid, Low Voltage, On Poles, Alarm And Communications Cable	5,110.89	800.13
27 14 13 16-0087 MLF 6 Pair #14 AWG, Solid, Low Voltage, On Poles, Alarm And Communications Cable	6,170.77	1,022.22
27 14 13 16-0088 Non-Shielded Low Voltage Cable Pulled In Conduit (27 14 13 16-0001)		
27 14 13 16-0089 #14 AWG Low Voltage Cable, Pulled In Conduit, Non-Shielded (27 14 13 16-0008)		
27 14 13 16-0090 MLF 1 Pair #14 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,424.88 -241.41 362.11 362.11	724.39
27 14 13 16-0091 MLF 2 Pair #14 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,652.55 -250.11 375.16 375.16	750.32
27 14 13 16-0092 MLF 3 Pair #14 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,854.12 -258.80 388.21 388.21	776.25
27 14 13 16-0093 MLF 4 Pair #14 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,066.48 -267.67 401.51 401.51	803.02
27 14 13 16-0094 MLF 5 Pair #14 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,313.21 -285.40 428.11 428.11	856.55
27 14 13 16-0095 MLF 6 Pair #14 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,542.89 -303.31 454.96 454.96	910.08
27 14 13 16-0096 MLF 8 Pair #14 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,778.84 -339.61 509.41 509.41	1,018.82
27 14 13 16-0097 MLF 12 Pair #14 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,678.64 -447.51 671.27 671.27	1,342.53
27 14 13 16-0098 MLF 24 Pair #14 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,467.36 -661.15 991.72 991.72	1,983.28
27 14 13 16-0099 #16 AWG Low Voltage Cable, Pulled In Conduit, Non-Shielded (27 14 13 16-0008)		
27 14 13 16-0100 MLF 1 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,270.05 -215.64 323.46 323.46	646.59
27 14 13 16-0101 MLF 2 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,470.71 -223.34 335.01 335.01	670.02



Communications			27
Structured Cabling			27 10
Communications Cabling			27 14

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0102	MLF	3 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded		1,648.39	693.43
		For Installation On Exposed Surface, Deduct	.....	-231.03	
		For Work In Restricted Working Space, Add	.....	346.55	
		For Work In Restricted Working Space, Add	.....	346.55	
27 14 13 16-0103	MLF	4 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	1,836.50	716.86
		For Installation On Exposed Surface, Deduct	.....	-239.06	
		For Work In Restricted Working Space, Add	.....	358.60	
		For Work In Restricted Working Space, Add	.....	358.60	
27 14 13 16-0104	MLF	5 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	2,055.16	764.54
		For Installation On Exposed Surface, Deduct	.....	-254.96	
		For Work In Restricted Working Space, Add	.....	382.44	
		For Work In Restricted Working Space, Add	.....	382.44	
27 14 13 16-0105	MLF	6 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	2,258.89	813.05
		For Installation On Exposed Surface, Deduct	.....	-271.02	
		For Work In Restricted Working Space, Add	.....	406.52	
		For Work In Restricted Working Space, Add	.....	406.52	
27 14 13 16-0106	MLF	7 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	2,363.18	861.57
		For Installation On Exposed Surface, Deduct	.....	-287.08	
		For Work In Restricted Working Space, Add	.....	430.62	
		For Work In Restricted Working Space, Add	.....	430.62	
27 14 13 16-0107	MLF	8 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	2,529.80	910.08
		For Installation On Exposed Surface, Deduct	.....	-303.30	
		For Work In Restricted Working Space, Add	.....	454.96	
		For Work In Restricted Working Space, Add	.....	454.96	
27 14 13 16-0108	MLF	9 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	2,794.79	967.80
		For Installation On Exposed Surface, Deduct	.....	-322.53	
		For Work In Restricted Working Space, Add	.....	483.79	
		For Work In Restricted Working Space, Add	.....	483.79	
27 14 13 16-0109	MLF	12 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	3,266.93	1,198.67
		For Installation On Exposed Surface, Deduct	.....	-399.58	
		For Work In Restricted Working Space, Add	.....	599.38	
		For Work In Restricted Working Space, Add	.....	599.38	
27 14 13 16-0110	MLF	24 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	4,855.43	1,770.81
		For Installation On Exposed Surface, Deduct	.....	-590.38	
		For Work In Restricted Working Space, Add	.....	885.57	
		For Work In Restricted Working Space, Add	.....	885.57	
27 14 13 16-0111	#18 AWG Low Voltage Cable, Pulled In Conduit, Non-Shielded (27 14 13 16-0088)			.....	
27 14 13 16-0112	MLF	1 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	1,108.67	568.80
		For Installation On Exposed Surface, Deduct	.....	-189.71	
		For Work In Restricted Working Space, Add	.....	284.57	
		For Work In Restricted Working Space, Add	.....	284.57	
27 14 13 16-0113	MLF	2 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	1,269.96	589.71
		For Installation On Exposed Surface, Deduct	.....	-196.57	
		For Work In Restricted Working Space, Add	.....	294.86	
		For Work In Restricted Working Space, Add	.....	294.86	
27 14 13 16-0114	MLF	3 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	1,370.50	610.62
		For Installation On Exposed Surface, Deduct	.....	-203.43	
		For Work In Restricted Working Space, Add	.....	305.15	
		For Work In Restricted Working Space, Add	.....	305.15	
27 14 13 16-0115	MLF	4 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	1,504.18	630.70
		For Installation On Exposed Surface, Deduct	.....	-210.29	
		For Work In Restricted Working Space, Add	.....	315.44	
		For Work In Restricted Working Space, Add	.....	315.44	
27 14 13 16-0116	MLF	5 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	1,663.61	673.36
		For Installation On Exposed Surface, Deduct	.....	-224.51	
		For Work In Restricted Working Space, Add	.....	336.76	
		For Work In Restricted Working Space, Add	.....	336.76	
27 14 13 16-0117	MLF	6 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	1,822.22	716.02
		For Installation On Exposed Surface, Deduct	.....	-238.56	
		For Work In Restricted Working Space, Add	.....	357.85	
		For Work In Restricted Working Space, Add	.....	357.85	
27 14 13 16-0118	MLF	8 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	2,195.47	800.50
		For Installation On Exposed Surface, Deduct	.....	-266.84	
		For Work In Restricted Working Space, Add	.....	400.25	
		For Work In Restricted Working Space, Add	.....	400.25	
27 14 13 16-0119	MLF	12 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	2,850.79	1,054.80
		For Installation On Exposed Surface, Deduct	.....	-351.65	
		For Work In Restricted Working Space, Add	.....	527.48	
		For Work In Restricted Working Space, Add	.....	527.48	
27 14 13 16-0120	MLF	24 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	3,790.52	1,558.35
		For Installation On Exposed Surface, Deduct	.....	-519.45	
		For Work In Restricted Working Space, Add	.....	779.18	
		For Work In Restricted Working Space, Add	.....	779.18	
27 14 13 16-0121	#20 AWG Low Voltage Cable, Pulled In Conduit, Non-Shielded (27 14 13 16-0088)			.....	
27 14 13 16-0122	MLF	1 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded	.....	975.43	517.78
		For Installation On Exposed Surface, Deduct	.....	-172.48	
		For Work In Restricted Working Space, Add	.....	258.72	
		For Work In Restricted Working Space, Add	.....	258.72	

27 Communications
27 10 Structured Cabling
27 14 Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0123 MLF 2 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	1,086.01	536.18
For Installation On Exposed Surface, Deduct	-178.67	
For Work In Restricted Working Space, Add	268.01	
For Work In Restricted Working Space, Add	268.01	
27 14 13 16-0124 MLF 3 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	1,284.78	610.62
For Installation On Exposed Surface, Deduct	-203.43	
For Work In Restricted Working Space, Add	305.15	
For Work In Restricted Working Space, Add	305.15	
27 14 13 16-0125 MLF 4 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	1,303.04	573.83
For Installation On Exposed Surface, Deduct	-191.22	
For Work In Restricted Working Space, Add	286.83	
For Work In Restricted Working Space, Add	286.83	
27 14 13 16-0126 MLF 5 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	1,545.98	673.36
For Installation On Exposed Surface, Deduct	-224.51	
For Work In Restricted Working Space, Add	336.76	
For Work In Restricted Working Space, Add	336.76	
27 14 13 16-0127 MLF 6 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	1,683.24	716.02
For Installation On Exposed Surface, Deduct	-238.56	
For Work In Restricted Working Space, Add	357.85	
For Work In Restricted Working Space, Add	357.85	
27 14 13 16-0128 MLF 8 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	1,852.28	796.82
For Installation On Exposed Surface, Deduct	-265.66	
For Work In Restricted Working Space, Add	398.50	
For Work In Restricted Working Space, Add	398.50	
27 14 13 16-0129 MLF 12 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	2,287.09	959.43
For Installation On Exposed Surface, Deduct	-319.70	
For Work In Restricted Working Space, Add	479.55	
For Work In Restricted Working Space, Add	479.55	
27 14 13 16-0130 MLF 24 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	3,394.24	1,416.99
For Installation On Exposed Surface, Deduct	-472.27	
For Work In Restricted Working Space, Add	708.41	
For Work In Restricted Working Space, Add	708.41	
27 14 13 16-0131 MLF 25 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	3,566.86	1,450.45
For Installation On Exposed Surface, Deduct	-483.48	
For Work In Restricted Working Space, Add	725.22	
For Work In Restricted Working Space, Add	725.22	
27 14 13 16-0132 MLF 36 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	4,223.22	1,688.84
For Installation On Exposed Surface, Deduct	-562.95	
For Work In Restricted Working Space, Add	844.42	
For Work In Restricted Working Space, Add	844.42	
27 14 13 16-0133 MLF 40 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	4,528.29	1,807.62
For Installation On Exposed Surface, Deduct	-602.59	
For Work In Restricted Working Space, Add	903.89	
For Work In Restricted Working Space, Add	903.89	
27 14 13 16-0134 MLF 50 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	5,481.03	2,259.32
For Installation On Exposed Surface, Deduct	-752.99	
For Work In Restricted Working Space, Add	1,129.49	
For Work In Restricted Working Space, Add	1,129.49	
27 14 13 16-0135 MLF 100 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	7,385.32	2,974.50
For Installation On Exposed Surface, Deduct	-991.38	
For Work In Restricted Working Space, Add	1,487.07	
For Work In Restricted Working Space, Add	1,487.07	
27 14 13 16-0136 #22 AWG Low Voltage Cable, Pulled In Conduit, Non-Shielded (27 14 13 16-0088)		
27 14 13 16-0137 MLF 1 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	851.18	465.91
For Installation On Exposed Surface, Deduct	-155.25	
For Work In Restricted Working Space, Add	232.88	
For Installation On Exposed Surface, Deduct	-155.25	
For Work In Restricted Working Space, Add	232.88	
27 14 13 16-0138 MLF 2 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	906.38	482.64
For Installation On Exposed Surface, Deduct	-160.77	
For Work In Restricted Working Space, Add	241.16	
For Installation On Exposed Surface, Deduct	-160.77	
For Work In Restricted Working Space, Add	241.16	
27 14 13 16-0139 MLF 3 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	978.08	499.37
For Installation On Exposed Surface, Deduct	-166.46	
For Work In Restricted Working Space, Add	249.69	
For Installation On Exposed Surface, Deduct	-166.46	
For Work In Restricted Working Space, Add	249.69	
27 14 13 16-0140 MLF 4 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	1,056.18	516.10
For Installation On Exposed Surface, Deduct	-172.15	
For Work In Restricted Working Space, Add	258.22	
For Installation On Exposed Surface, Deduct	-172.15	
For Work In Restricted Working Space, Add	258.22	
27 14 13 16-0141 MLF 5 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	1,160.36	551.23
For Installation On Exposed Surface, Deduct	-183.69	
For Work In Restricted Working Space, Add	275.54	
For Installation On Exposed Surface, Deduct	-183.69	
For Work In Restricted Working Space, Add	275.54	
27 14 13 16-0142 MLF 6 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Non-Shielded.....	1,272.08	583.86
For Installation On Exposed Surface, Deduct	-194.73	
For Work In Restricted Working Space, Add	292.10	
For Installation On Exposed Surface, Deduct	-194.73	
For Work In Restricted Working Space, Add	292.10	



Communications			27
Structured Cabling			27 10
Communications Cabling			27 14

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
27 14 13 16-0143 Shielded Plenum Rated, Low Voltage Cable, Pulled In Conduit (27 14 13 16-0001)					
27 14 13 16-0144	MLF 1 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,222.69		646.59	
27 14 13 16-0145	MLF 2 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,457.78		670.02	
27 14 13 16-0146	MLF 3 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,624.51		693.43	
27 14 13 16-0147	MLF 4 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,715.83		716.86	
27 14 13 16-0148	MLF 5 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	2,043.08		764.54	
27 14 13 16-0149	MLF 6 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	2,207.81		813.05	
27 14 13 16-0150	MLF 8 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	2,744.45		910.08	
27 14 13 16-0151	MLF 12 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	3,421.22		1,198.67	
27 14 13 16-0152	MLF 24 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	5,186.07		1,770.81	
27 14 13 16-0153	MLF 1 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,058.19		568.80	
27 14 13 16-0154	MLF 2 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,251.44		589.71	
27 14 13 16-0155	MLF 3 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,411.94		610.62	
27 14 13 16-0156	MLF 4 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,493.30		630.70	
27 14 13 16-0157	MLF 5 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,773.12		673.36	
27 14 13 16-0158	MLF 6 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,984.10		716.02	
27 14 13 16-0159	MLF 8 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	2,239.72		800.50	
27 14 13 16-0160	MLF 12 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	2,897.56		1,054.80	
27 14 13 16-0161	MLF 24 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	4,607.05		1,558.35	
27 14 13 16-0162	MLF 1 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	937.45		517.78	
27 14 13 16-0163	MLF 2 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,061.17		536.18	
27 14 13 16-0164	MLF 3 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,181.18		554.58	
27 14 13 16-0165	MLF 4 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,258.30		573.83	
27 14 13 16-0166	MLF 5 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,368.04		612.30	
27 14 13 16-0167	MLF 6 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,490.56		650.77	
27 14 13 16-0168	MLF 8 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,669.26		727.73	
27 14 13 16-0169	MLF 12 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	2,294.33		959.43	
27 14 13 16-0170	MLF 24 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	3,479.10		1,416.99	
27 14 13 16-0171	MLF 25 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	3,661.21		1,450.45	
27 14 13 16-0172	MLF 36 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	4,314.69		1,688.84	
27 14 13 16-0173	MLF 40 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	4,652.80		1,807.62	
27 14 13 16-0174	MLF 50 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	5,622.03		2,259.32	
27 14 13 16-0175	MLF 100 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	7,584.85		2,974.50	
27 14 13 16-0176	MLF 250 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	14,601.97		5,478.90	
27 14 13 16-0177	MLF 500 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	21,873.79		7,250.55	
27 14 13 16-0178	MLF 750 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	29,185.35		9,136.80	
27 14 13 16-0179	MLF 1200 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	41,041.25		12,532.88	
27 14 13 16-0180	MLF 1 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	910.41		517.78	
27 14 13 16-0181	MLF 2 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,000.70		536.18	
27 14 13 16-0182	MLF 3 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,088.62		554.58	
27 14 13 16-0183	MLF 4 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,149.40		573.83	
27 14 13 16-0184	MLF 5 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,242.82		612.30	
27 14 13 16-0185	MLF 6 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,344.09		650.77	
27 14 13 16-0186	MLF 8 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	1,504.81		727.73	
27 14 13 16-0187	MLF 12 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	2,043.61		959.43	
27 14 13 16-0188	MLF 24 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	3,076.36		1,416.99	
27 14 13 16-0189	MLF 25 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	3,213.04		1,450.45	
27 14 13 16-0190	MLF 36 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	3,789.74		1,688.84	
27 14 13 16-0191	MLF 40 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	4,061.93		1,807.62	
27 14 13 16-0192	MLF 50 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	4,952.88		2,259.32	
27 14 13 16-0193	MLF 100 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	6,637.95		2,974.50	
27 14 13 16-0194	MLF 250 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	12,598.07		5,478.90	
27 14 13 16-0195	MLF 500 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	18,335.87		7,250.55	
27 14 13 16-0196	MLF 750 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	24,142.43		9,136.80	
27 14 13 16-0197	MLF 1200 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Shielded.....	33,760.87		12,532.88	
27 14 13 16-0198 Non-Shielded Plenum Rated, Low Voltage Cable, Pulled In Conduit (27 14 13 16-0001)					
27 14 13 16-0199	MLF 1 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,258.02		646.59	
27 14 13 16-0200	MLF 2 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,439.11		670.02	
27 14 13 16-0201	MLF 3 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,551.99		693.43	
27 14 13 16-0202	MLF 4 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,702.91		716.86	
27 14 13 16-0203	MLF 5 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,883.26		764.54	
27 14 13 16-0204	MLF 6 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	2,061.92		813.05	
27 14 13 16-0205	MLF 8 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	2,483.78		910.08	
27 14 13 16-0206	MLF 12 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	3,226.01		1,198.67	
27 14 13 16-0207	MLF 24 Pair #16 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	4,812.02		1,770.81	
27 14 13 16-0208	MLF 1 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,101.40		568.80	
27 14 13 16-0209	MLF 2 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,256.92		589.71	
27 14 13 16-0210	MLF 3 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,354.45		610.62	
27 14 13 16-0211	MLF 4 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,483.62		630.70	
27 14 13 16-0212	MLF 5 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,639.04		673.36	
27 14 13 16-0213	MLF 6 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,793.64		716.02	
27 14 13 16-0214	MLF 8 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	2,156.35		800.50	
27 14 13 16-0215	MLF 12 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	2,801.79		1,054.80	
27 14 13 16-0216	MLF 24 Pair #18 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	4,178.35		1,558.35	
27 14 13 16-0217	MLF 1 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	970.30		517.78	
27 14 13 16-0218	MLF 2 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,104.16		536.18	

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27 14 13 16-0219 MLF 3 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	1,198.36	554.58
27 14 13 16-0220 MLF 4 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	1,368.28	573.83
27 14 13 16-0221 MLF 5 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	1,519.01	612.30
27 14 13 16-0222 MLF 6 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	1,806.29	650.77
27 14 13 16-0223 MLF 8 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	2,018.93	727.73
27 14 13 16-0224 MLF 12 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	2,553.36	959.43
27 14 13 16-0225 MLF 24 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	3,849.45	1,416.99
27 14 13 16-0226 MLF 25 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	4,072.45	1,450.45
27 14 13 16-0227 MLF 36 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	4,842.90	1,688.84
27 14 13 16-0228 MLF 40 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	5,194.98	1,807.62
27 14 13 16-0229 MLF 50 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	6,236.03	2,259.32
27 14 13 16-0230 MLF 100 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	8,453.73	2,974.50
27 14 13 16-0231 MLF 250 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	16,441.18	5,478.90
27 14 13 16-0232 MLF 500 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	25,120.76	7,250.55
27 14 13 16-0233 MLF 750 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	33,813.03	9,136.80
27 14 13 16-0234 MLF 1200 Pair #20 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	47,722.22	12,532.04
27 14 13 16-0235 MLF 1 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	931.42	517.78
27 14 13 16-0236 MLF 2 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	1,028.20	536.18
27 14 13 16-0237 MLF 3 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	1,099.61	554.58
27 14 13 16-0238 MLF 4 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	1,219.76	573.83
27 14 13 16-0239 MLF 5 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	1,339.39	612.30
27 14 13 16-0240 MLF 6 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	1,546.06	650.77
27 14 13 16-0241 MLF 8 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	1,728.50	727.73
27 14 13 16-0242 MLF 12 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	2,209.30	959.43
27 14 13 16-0243 MLF 24 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	3,313.26	1,416.99
27 14 13 16-0244 MLF 25 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	3,476.10	1,450.45
27 14 13 16-0245 MLF 36 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	4,112.10	1,688.84
27 14 13 16-0246 MLF 40 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	4,408.75	1,807.62
27 14 13 16-0247 MLF 50 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	5,345.64	2,259.32
27 14 13 16-0248 MLF 100 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	7,193.75	2,974.50
27 14 13 16-0249 MLF 250 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	13,774.47	5,478.90
27 14 13 16-0250 MLF 500 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	20,412.89	7,250.55
27 14 13 16-0251 MLF 750 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	27,102.94	9,136.80
27 14 13 16-0252 MLF 1200 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded	38,035.18	12,532.88

27 14 13 16-0253 Copper Telecommunications Cable (27 14 13 16)

27 14 13 16-0254 Indoor Telecommunications Cable (27 14 13 16-0253)

Note: Telecommunications cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Telecommunications cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. Shielded twisted pair cables (STP) include a metallic foil wrap. Un-shielded twisted pair cables (UTP) exclude any shielding.

27 14 13 16-0255 Category 3, Indoor Telecommunications Cable (27 14 13 16-0254)

Note: Un-shielded twisted pair cables (UTP).

27 14 13 16-0256 Category 3, Indoor Telecommunications Riser Cable (27 14 13 16-0255)

27 14 13 16-0257 24 AWG, Category 3, Indoor Telecommunications Riser Cable (27 14 13 16-0256)

27 14 13 16-0258 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 14 13 16-0257)

27 14 13 16-0259 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	764.15	384.29
27 14 13 16-0260 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	816.78	384.29
27 14 13 16-0261 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	835.20	384.29
27 14 13 16-0262 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,031.95	439.18
27 14 13 16-0263 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,418.75	439.18
27 14 13 16-0264 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	2,034.48	439.18
27 14 13 16-0265 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,380.53	548.98
27 14 13 16-0266 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	6,213.52	878.37
27 14 13 16-0267 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	8,596.30	988.16
27 14 13 16-0268 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	11,618.49	1,097.96
27 14 13 16-0269 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	17,055.31	1,537.15
27 14 13 16-0270 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	22,458.75	1,899.47
27 14 13 16-0271 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	35,254.77	2,635.10
27 14 13 16-0272 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	56,421.42	5,270.20
27 14 13 16-0273 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	76,074.99	7,905.31

27 14 13 16-0274 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 14 13 16-0257)

27 14 13 16-0275 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,404.63	768.57
For Work In Restricted Working Space, Add	384.29	
27 14 13 16-0276 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,457.26	768.57
For Work In Restricted Working Space, Add	384.29	
27 14 13 16-0277 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,475.68	768.57
For Work In Restricted Working Space, Add	384.29	
27 14 13 16-0278 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,580.94	768.57
For Work In Restricted Working Space, Add	384.29	
27 14 13 16-0279 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,967.74	768.57
For Work In Restricted Working Space, Add	384.29	



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27 14 13 16-0280 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,766.46 439.19	878.37
27 14 13 16-0281 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,295.50 548.98	1,097.96
27 14 13 16-0282 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,945.49 658.78	1,317.55
27 14 13 16-0283 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,419.77 741.12	1,482.24
27 14 13 16-0284 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,533.45 823.47	1,646.94
27 14 13 16-0285 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	18,336.27 1,152.86	2,305.71
27 14 13 16-0286 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	24,050.79 1,427.35	2,854.70
27 14 13 16-0287 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	37,450.69 1,976.33	3,952.65
27 14 13 16-0288 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	60,813.25 3,952.65	7,905.31
27 14 13 16-0289 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	82,662.75 5,928.98	11,857.96
27 14 13 16-0290 22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 14 13 16-0256)		
27 14 13 16-0291 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 14 13 16-0290)		
27 14 13 16-0292 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,504.60	439.18
27 14 13 16-0293 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	5,316.40	548.98
27 14 13 16-0294 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	9,822.65	878.37
27 14 13 16-0295 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	17,869.50	1,097.96
27 14 13 16-0296 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	26,496.53	1,537.15
27 14 13 16-0297 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	34,606.50	1,899.47
27 14 13 16-0298 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	51,201.47	2,635.10
27 14 13 16-0299 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 14 13 16-0290)		
27 14 13 16-0300 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,236.58 439.19	878.37
27 14 13 16-0301 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,231.37 548.98	1,097.96
27 14 13 16-0302 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,554.62 658.78	1,317.55
27 14 13 16-0303 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	18,784.46 823.47	1,646.94
27 14 13 16-0304 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	27,777.49 1,152.86	2,305.71
27 14 13 16-0305 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	36,198.54 1,427.35	2,854.70
27 14 13 16-0306 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	53,397.39 1,976.33	3,952.65
27 14 13 16-0307 Category 3, Indoor Telecommunications Plenum Cable (27 14 13 16-0255)		
27 14 13 16-0308 24 AWG, Category 3, Indoor Telecommunications Plenum Cable (27 14 13 16-0307)		
27 14 13 16-0309 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 14 13 16-0308)		
27 14 13 16-0310 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	798.37	384.29
27 14 13 16-0311 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	850.98	384.29
27 14 13 16-0312 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	887.83	384.29
27 14 13 16-0313 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,087.21	439.18
27 14 13 16-0314 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,489.79	439.18
27 14 13 16-0315 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	2,587.05	439.18
27 14 13 16-0316 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	4,488.33	548.98
27 14 13 16-0317 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	8,613.29	878.37
27 14 13 16-0318 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	15,276.07	1,097.96
27 14 13 16-0319 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	22,988.96	1,537.15
27 14 13 16-0320 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed (27 14 13 16-0308)		
27 14 13 16-0321 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,438.85 384.29	768.57
27 14 13 16-0322 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,491.46 384.29	768.57
27 14 13 16-0323 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,528.31 384.29	768.57
27 14 13 16-0324 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,636.20 384.29	768.57

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27 14 13 16-0325 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,038.78 384.29	768.57
27 14 13 16-0326 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,319.03 439.19	878.37
27 14 13 16-0327 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,403.30 548.98	1,097.96
27 14 13 16-0328 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,345.26 658.78	1,317.55
27 14 13 16-0329 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	16,191.03 823.47	1,646.94
27 14 13 16-0330 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	24,269.92 1,152.86	2,305.71
27 14 13 16-0331 Category 5E, Indoor Telecommunications Cable (27 14 13 16-0254)		
27 14 13 16-0332 Category 5E, Indoor Telecommunications Riser Cable (27 14 13 16-0331)		
27 14 13 16-0333 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit (27 14 13 16-0332)		
27 14 13 16-0334 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	929.92	384.29
27 14 13 16-0335 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit	997.91	384.29
27 14 13 16-0336 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,090.73	439.18
27 14 13 16-0337 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit	1,159.12	439.18
27 14 13 16-0338 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed (27 14 13 16-0332)		
27 14 13 16-0339 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed	1,570.40 384.29	768.57
27 14 13 16-0340 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,638.39 384.29	768.57
27 14 13 16-0341 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed	1,822.71 439.19	878.37
27 14 13 16-0342 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,891.10 439.19	878.37
27 14 13 16-0343 Category 5E, Indoor Telecommunications Plenum Cable (27 14 13 16-0331)		
27 14 13 16-0344 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 14 13 16-0343)		
27 14 13 16-0345 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,156.22	384.29
27 14 13 16-0346 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,754.47	439.18
27 14 13 16-0347 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed (27 14 13 16-0343)		
27 14 13 16-0348 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed	1,796.70 384.29	768.57
27 14 13 16-0349 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,486.45 439.19	878.37
27 14 13 16-0350 Category 6, Indoor Telecommunications Cable (27 14 13 16-0254)		
27 14 13 16-0351 Category 6, Indoor Telecommunications Riser Cable (27 14 13 16-0350)		
27 14 13 16-0352 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit (27 14 13 16-0351)		
27 14 13 16-0353 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,098.32	384.29
27 14 13 16-0354 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,149.52	384.29
27 14 13 16-0355 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed (27 14 13 16-0351)		
27 14 13 16-0356 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,738.80 384.29	768.57
27 14 13 16-0357 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,790.00 384.29	768.57
27 14 13 16-0358 Category 6, Indoor Telecommunications Plenum Cable (27 14 13 16-0350)		
27 14 13 16-0359 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 14 13 16-0358)		
27 14 13 16-0360 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,571.97	384.29
27 14 13 16-0361 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed (27 14 13 16-0359)		
27 14 13 16-0362 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,212.45 384.29	768.57
27 14 13 16-0363 Category 6a, Indoor Telecommunications Cable (27 14 13 16-0254)		



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27 14 13 16-0364 Category 6a, Indoor Telecommunications Riser Cable (27 14 13 16-0363)		
27 14 13 16-0365 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit (27 14 13 16-0364)		
27 14 13 16-0366 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,180.12	384.29
27 14 13 16-0367 Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed (27 14 13 16-0364)		
27 14 13 16-0368 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	1,820.60 384.29	768.57
27 14 13 16-0369 Category 6a, Indoor Telecommunications Plenum Cable (27 14 13 16-0363)		
27 14 13 16-0370 Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 14 13 16-0369)		
27 14 13 16-0371 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,814.07	384.29
27 14 13 16-0372 Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed (27 14 13 16-0369)		
27 14 13 16-0373 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,454.55 384.29	768.57
27 14 13 16-0374 Category 7, Indoor Telecommunications Cable (27 14 13 16-0254)		
27 14 13 16-0375 Category 7, Indoor Telecommunications Cable, Installed In Conduit (27 14 13 16-0374)		
27 14 13 16-0376 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit	2,812.32	439.18
27 14 13 16-0377 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit	5,810.22	439.18
27 14 13 16-0378 Category 7, Indoor Telecommunications Cable, Installed Exposed (27 14 13 16-0374)		
27 14 13 16-0379 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	3,544.30 439.19	878.37
27 14 13 16-0380 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... For Work In Restricted Working Space, Add	6,542.20 439.19	878.37
27 14 13 16-0381 Outdoor Telecommunications Cable (27 14 13 16-0253) Note: Telecommunications cable installed in conduit includes pull wires and installation in conduit, innerduct, etc. Telecommunications cable buried in trench excludes excavation.		
27 14 13 16-0382 PE-89 Outdoor Telecommunications Cable (27 14 13 16-0381) Note: Includes foam-skin polyolefin insulated conductors.		
27 14 13 16-0383 24 AWG, PE-89 Outdoor Telecommunications Cable (27 14 13 16-0382)		
27 14 13 16-0384 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 14 13 16-0383)		
27 14 13 16-0385 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,221.95	439.18
27 14 13 16-0386 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,429.19	768.57
27 14 13 16-0387 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,967.14	494.08
27 14 13 16-0388 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,909.14	548.98
27 14 13 16-0389 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,120.50	768.57
27 14 13 16-0390 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,150.81	878.37
27 14 13 16-0391 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	8,643.00	988.16
27 14 13 16-0392 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	12,695.72	1,427.34
27 14 13 16-0393 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	16,812.86	1,866.53
27 14 13 16-0394 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	22,829.78	2,525.31
27 14 13 16-0395 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	36,465.10	5,050.61
27 14 13 16-0396 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	50,059.15	7,466.13
27 14 13 16-0397 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 14 13 16-0383)		
27 14 13 16-0398 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,084.71	
27 14 13 16-0399 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,291.95	
27 14 13 16-0400 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,784.15	
27 14 13 16-0401 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,726.15	
27 14 13 16-0402 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,846.00	
27 14 13 16-0403 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	4,693.32	
27 14 13 16-0404 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	8,460.01	
27 14 13 16-0405 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	12,146.74	
27 14 13 16-0406 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	15,669.15	
27 14 13 16-0407 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	20,816.86	
27 14 13 16-0408 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	30,975.32	
27 14 13 16-0409 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	42,007.44	
27 14 13 16-0410 22 AWG, PE-89 Outdoor Telecommunications Cable (27 14 13 16-0382)		

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27 14 13 16-0411	22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 14 13 16-0410)		
27 14 13 16-0412	MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,353.70	439.18
27 14 13 16-0413	MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,675.35	439.18
27 14 13 16-0414	MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,471.00	494.08
27 14 13 16-0415	MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	3,805.95	548.98
27 14 13 16-0416	MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,521.96	768.57
27 14 13 16-0417	MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	7,056.06	878.37
27 14 13 16-0418	MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	12,318.50	988.16
27 14 13 16-0419	MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	17,937.73	1,427.34
27 14 13 16-0420	MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	23,879.54	1,866.53
27 14 13 16-0421	MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	35,170.42	2,525.31
27 14 13 16-0422	MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	52,050.32	5,050.61
27 14 13 16-0423	MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	73,376.08	7,466.13
27 14 13 16-0424	22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 14 13 16-0410)		
27 14 13 16-0425	MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,216.46	
27 14 13 16-0426	MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,538.11	
27 14 13 16-0427	MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,288.01	
27 14 13 16-0428	MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,622.96	
27 14 13 16-0429	MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	5,247.46	
27 14 13 16-0430	MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	6,781.56	
27 14 13 16-0431	MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	12,135.51	
27 14 13 16-0432	MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	17,388.75	
27 14 13 16-0433	MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	22,735.83	
27 14 13 16-0434	MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	33,157.50	
27 14 13 16-0435	MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	46,560.54	
27 14 13 16-0436	MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	65,324.37	
27 14 13 16-0437	19 AWG, PE-89 Outdoor Telecommunications Cable ^(27 14 13 16-0382)		
27 14 13 16-0438	19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 14 13 16-0437)		
27 14 13 16-0439	MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,024.29	494.08
27 14 13 16-0440	MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	6,842.13	548.98
27 14 13 16-0441	MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	10,922.77	768.57
27 14 13 16-0442	MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	13,069.86	878.37
27 14 13 16-0443	19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 14 13 16-0437)		
27 14 13 16-0444	MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,841.30	
27 14 13 16-0445	MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	6,659.14	
27 14 13 16-0446	MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	10,648.27	
27 14 13 16-0447	MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	12,795.36	
27 14 13 16-0448	PE-39 Outdoor Telecommunications Cable ^(27 14 13 16-0381)		
Note: Includes solid polyolefin insulated conductors.			
27 14 13 16-0449	24 AWG, PE-39 Outdoor Telecommunications Cable ^(27 14 13 16-0448)		
27 14 13 16-0450	24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit ^(27 14 13 16-0449)		
27 14 13 16-0451	MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	1,789.46	768.57
27 14 13 16-0452	MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,043.01	768.57
27 14 13 16-0453	MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,554.52	768.57
27 14 13 16-0454	MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,475.66	768.57
27 14 13 16-0455	MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	5,343.86	768.57
27 14 13 16-0456	MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	9,503.00	988.16
27 14 13 16-0457	MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	13,868.80	1,427.34
27 14 13 16-0458	MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	18,242.25	1,866.53
27 14 13 16-0459	MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	24,916.80	2,525.31
27 14 13 16-0460	MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	39,164.14	5,050.61
27 14 13 16-0461	MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	57,059.37	7,466.13
27 14 13 16-0462	24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench ^(27 14 13 16-0449)		
27 14 13 16-0463	MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	1,514.96	
27 14 13 16-0464	MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	1,768.51	
27 14 13 16-0465	MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,280.02	
27 14 13 16-0466	MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,201.16	
27 14 13 16-0467	MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	5,069.36	
27 14 13 16-0468	MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	9,320.01	
27 14 13 16-0469	MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	13,319.82	
27 14 13 16-0470	MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	17,098.54	
27 14 13 16-0471	MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	22,903.88	
27 14 13 16-0472	MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	33,674.36	
27 14 13 16-0473	MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	49,007.66	



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27 14 13 16-0474 22 AWG, PE-39 Outdoor Telecommunications Cable (27 14 13 16-0448)		
27 14 13 16-0475 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 14 13 16-0474)		
27 14 13 16-0476 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	1,936.05	768.57
27 14 13 16-0477 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,308.62	768.57
27 14 13 16-0478 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,101.47	768.57
27 14 13 16-0479 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,560.04	768.57
27 14 13 16-0480 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	7,603.87	768.57
27 14 13 16-0481 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	13,852.34	988.16
27 14 13 16-0482 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	20,288.97	1,427.34
27 14 13 16-0483 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	26,007.31	1,866.53
27 14 13 16-0484 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	36,294.40	2,525.31
27 14 13 16-0485 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	57,587.10	5,050.61
27 14 13 16-0486 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 14 13 16-0474)		
27 14 13 16-0487 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	1,661.55	
27 14 13 16-0488 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,034.12	
27 14 13 16-0489 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,826.97	
27 14 13 16-0490 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	4,285.54	
27 14 13 16-0491 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	7,329.37	
27 14 13 16-0492 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	13,669.35	
27 14 13 16-0493 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	19,739.99	
27 14 13 16-0494 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	24,863.60	
27 14 13 16-0495 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	34,281.48	
27 14 13 16-0496 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	52,097.32	
27 14 13 16-0497 19 AWG, PE-39 Outdoor Telecommunications Cable (27 14 13 16-0448)		
27 14 13 16-0498 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 14 13 16-0497)		
27 14 13 16-0499 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,857.82	768.57
27 14 13 16-0500 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	7,815.99	768.57
27 14 13 16-0501 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	13,950.18	768.57
27 14 13 16-0502 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 14 13 16-0497)		
27 14 13 16-0503 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	4,583.32	
27 14 13 16-0504 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	7,541.49	
27 14 13 16-0505 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	13,675.68	
27 14 13 16-0506 (Aerial) Outdoor Telecommunications Cable (27 14 13 16-0381) Note: Includes support wire.		
27 14 13 16-0507 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 14 13 16-0506)		
27 14 13 16-0508 MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,271.37	1,536.31
27 14 13 16-0509 MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,482.34	1,536.31
27 14 13 16-0510 MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	6,006.11	1,536.31
27 14 13 16-0511 MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	6,975.87	1,536.31
27 14 13 16-0512 MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,848.95	1,536.31
27 14 13 16-0513 MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	12,940.42	1,689.94
27 14 13 16-0514 MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	17,055.05	1,843.58
27 14 13 16-0515 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 14 13 16-0506)		
27 14 13 16-0516 MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,523.77	1,536.31
27 14 13 16-0517 MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,835.45	1,536.31
27 14 13 16-0518 MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	6,586.17	1,536.31
27 14 13 16-0519 MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,069.28	1,536.31
27 14 13 16-0520 MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,482.32	1,536.31
27 14 13 16-0521 MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	17,555.92	1,689.94
27 14 13 16-0522 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 14 13 16-0506)		
27 14 13 16-0523 MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,857.45	1,536.31
27 14 13 16-0524 MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	6,562.31	1,536.31
27 14 13 16-0525 MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,948.17	1,536.31
27 14 13 16-0526 MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	10,719.92	1,536.31
27 14 13 16-0527 MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	16,438.34	1,536.31
27 14 13 16-0528 Sound System Cables (27 14 13 16)		
Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 14 13 16-0529 Speaker/Communications And Control Cable, Installed Exposed (27 14 13 16-0528)		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0530 Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 14 13 16-0529)		
27 14 13 16-0531 MLF 2/c #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,362.16	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0532 MLF 2/c #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,297.71	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0533 MLF 2/c #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,248.00	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0534 MLF 4/c #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,302.36	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0535 MLF 4/c #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,477.10	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0536 MLF 6/c #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,651.26	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0537 MLF 4/c #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,477.84	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0538 MLF 4/c #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,393.93	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0539 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 14 13 16-0529)		
27 14 13 16-0540 MLF 2/c #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,388.79	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0541 MLF 2/c #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,314.65	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0542 MLF 2/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,272.68	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0543 MLF 4/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,342.71	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0544 MLF 8/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,490.66	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0545 MLF 2/c #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,474.33	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0546 MLF 2/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,371.78	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0547 MLF 4/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,546.11	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0548 MLF 6/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,719.96	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0549 MLF 2/c #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,293.72	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0550 MLF 2/c #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,328.36	585.53
For Work In Restricted Working Space, Add	351.32	
27 14 13 16-0551 Speaker/Communications And Control Cable, Installed In Conduit (27 14 13 16-0528)		
27 14 13 16-0552 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 14 13 16-0551)		
27 14 13 16-0553 MLF 2/c #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	776.62	292.76
27 14 13 16-0554 MLF 2/c #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	712.17	292.76
27 14 13 16-0555 MLF 2/c #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	662.46	292.76
27 14 13 16-0556 MLF 4/c #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	716.82	292.76
27 14 13 16-0557 MLF 4/c #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	891.56	292.76
27 14 13 16-0558 MLF 6/c #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,065.72	292.76
27 14 13 16-0559 MLF 4/c #20AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	892.30	292.76



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0560 MLF 4/c #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	808.39	292.76
27 14 13 16-0561 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 14 13 16-0561)		
27 14 13 16-0562 MLF 2/c #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	803.25	292.76
27 14 13 16-0563 MLF 2/c #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	729.11	292.76
27 14 13 16-0564 MLF 2/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	687.14	292.76
27 14 13 16-0565 MLF 4/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	757.17	292.76
27 14 13 16-0566 MLF 8/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	905.12	292.76
27 14 13 16-0567 MLF 2/c #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	888.79	292.76
27 14 13 16-0568 MLF 2/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	786.24	292.76
27 14 13 16-0569 MLF 4/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	960.57	292.76
27 14 13 16-0570 MLF 6/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,134.42	292.76
27 14 13 16-0571 MLF 2/c #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	742.82	292.76
27 14 13 16-0572 MLF 2/c #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	708.18	292.76
27 14 23 Communications Optical Fiber Cabling (27 14)		
27 14 23 13 Communications Optical Fiber Splicing And Terminations (27 14 23)		
27 14 23 13-0001 Fiber Optic Cable Connectors (27 14 23 13)		
27 14 23 13-0002 EA ST Connector For Multimode Fiber Optic Cable.....	24.70	
27 14 23 13-0003 EA ST Connector For Singlemode Fiber Optic Cable.....	27.88	
27 14 23 13-0004 EA SC Connector For Multimode Fiber Optic Cable.....	27.06	
27 14 23 13-0005 EA SC Connector For Singlemode Fiber Optic Cable.....	31.12	
27 14 23 13-0006 EA LC Connector For Multimode Fiber Optic Cable.....	36.52	
27 14 23 13-0007 EA LC Connector For Singlemode Fiber Optic Cable.....	37.47	
27 14 23 13-0008 EA MT-RJ Connector For Multimode Fiber Optic Cable.....	52.13	
27 14 23 13-0009 Fiber Optic Cable Fan Out Kits (27 14 23 13)		
27 14 23 13-0010 Buffer Tube Fan Out Kits For Fiber Optic Cable (27 14 23 13-0009)		
27 14 23 13-0011 EA 6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	210.83	
27 14 23 13-0012 EA 12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	214.66	
27 14 23 13-0013 EA 6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	257.81	
27 14 23 13-0014 EA 12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	295.27	
27 14 23 13-0015 Spider Fan Out Kits For Fiber Optic Cable (27 14 23 13-0009)		
Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.		
27 14 23 13-0016 EA 6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	259.02	
27 14 23 13-0017 EA 12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	287.17	
27 14 23 13-0018 EA 18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	396.99	
27 14 23 13-0019 EA 24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	516.63	
27 14 23 13-0020 Fiber Optic Cable Splice Closures (27 14 23 13)		
Note: Includes mounting hardware. Excludes splicing and splice trays.		
27 14 23 13-0021 EA Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	587.74	91.50
27 14 23 13-0022 EA Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	770.73	182.99
27 14 23 13-0023 EA Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	770.73	182.99
27 14 23 13-0024 EA Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	953.96	91.50
27 14 23 13-0025 EA Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	1,136.95	182.99
27 14 23 13-0026 EA Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,136.95	182.99
27 14 23 13-0027 EA Splice Tray For Fiber Optic Cable Splice Closure.....	43.28	11.43
Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.		
27 14 23 13-0028 Fiber Optic Cable Splicing (27 14 23 13)		
27 14 23 13-0029 EA Single Strand, Fusion Splice Of Fiber Optic Cable.....	27.45	
27 14 23 13-0030 EA 12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable.....	91.50	
27 14 23 13-0031 Fiber Optic Cable Testing (27 14 23 13)		
Note: Price based on testing one wavelength.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 13-0032		Fiber Optic Cable Testing Using An OTDR (27 14 23 13-0031) Note: Testing using an optical time domain reflectometer.		
27 14 23 13-0033	EA	Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test	18.30	
		For >12 To 48 Strands, Deduct	-1.37	
		For >48 Strands, Deduct	-1.83	
27 14 23 13-0034	EA	Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test	27.45	
		For >12 To 48 Strands, Deduct	-2.06	
		For >48 Strands, Deduct	-2.75	
27 14 23 13-0035	EA	Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation	45.75	
		For >12 To 48 Strands, Deduct	-3.43	
		For >48 Strands, Deduct	-4.58	
27 14 23 13-0036	EA	Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation	68.62	
		For >12 To 48 Strands, Deduct	-5.15	
		For >48 Strands, Deduct	-6.86	
27 14 23 13-0037		Fiber Optic Cable Testing Using A Power Meter (27 14 23 13-0031)		
27 14 23 13-0038	EA	Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test	18.30	
		For >12 To 48 Strands, Deduct	-1.37	
		For >48 Strands, Deduct	-1.83	
27 14 23 13-0039	EA	Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test	27.45	
		For >12 To 48 Strands, Deduct	-2.06	
		For >48 Strands, Deduct	-2.75	
27 14 23 13-0040		Fiber Optic Cable Light Source/Continuity Testing (27 14 23 13-0031)		
27 14 23 13-0041	EA	Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test	18.30	
		For >12 To 48 Strands, Deduct	-1.37	
		For >48 Strands, Deduct	-1.83	
27 14 23 13-0042		Other Fiber Optic Cable Equipment (27 14 23 13)		
27 14 23 13-0043	EA	8 Port Ethernet Switch	660.88	180.01
27 14 23 13-0044	EA	18 dBi Gain, 5.25-5.85 GHz Band, 18 Degree Beamwidth	892.58	180.01
		Note: Patch antenna with 1 meter 3' SMA-N cable		
27 14 23 13-0045	EA	Outdoor Multi Band 5.3 Or 5.8 GHz Wireless Ethernet Bridge.....	19,717.65	180.01
		Note: 8VDC input		
27 14 23 13-0046	EA	UPS, 500 VA 300 Watt UPS For CCTV, Edco PA400-120U	207.30	22.54
27 14 23 13-0047	EA	Hardened Ethernet Switch	2,116.24	90.11
27 14 23 13-0048	EA	1,440 Watt, 120 Volt AC Solar Power Station.....	54,714.60	2,162.70
27 14 23 13-0049	EA	2,880 Watt, 120 Volt AC Solar Power Station.....	68,053.73	2,883.61
27 14 23 13-0050	EA	Fiber Break Out Box For 24 Fiber.....	961.32	180.23
27 14 23 13-0051	EA	Fiber Optic MM Data (PTZ or SYNC) 1300 Video 850, 1 Fiber, RM	1,045.49	90.11
27 14 23 13-0052	EA	Fiber Optic MM Data (PTZ or SYNC) 850 Video 850, 2 Fibers.....	883.25	90.11
27 14 23 13-0053	EA	Fiber Optic 19" Rack, 115 Volt AC Input.....	1,135.60	135.16
27 14 23 13-0054	EA	Commercial Gigabit Media Converter, Ethernet RJ45 to Fiber Optic. Shelf, Wall or Chassis Mount, 100VAC - 260VAC, Power Module Included. Gigabit Ports: 1 x 1000TX & 1 x 1000LX SM 20KM, (Etherwan Systems).....	839.30	
27 14 23 13-0055	EA	Media Converter Chassis (Etherwan Systems), 16 Slots for any Standard Size Media Converter, 19" Rack Mount Redundant Power Supplies, Power Option 100VAC - 260VAC	839.30	
27 14 23 13-0056		Other Fiber Optic Cable Splicing (27 14 23 13)		
27 14 23 13-0057	EA	Fiber Optic Finger Splice	30.85	17.20
27 14 23 13-0058	EA	Fiber Optic Splice Box - Manholes.....	4,516.15	
27 14 23 16		Communications Optical Fiber Cabling (27 14 23)		
27 14 23 16-0001		Indoor Fiber Optic Cable (27 14 23 16) Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.		
27 14 23 16-0002		Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0001) Note: Excludes conduit or innerduct.		
27 14 23 16-0003		Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0002)		
27 14 23 16-0004		Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0003)		
27 14 23 16-0005		Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0004)		
27 14 23 16-0006	MLF	1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	844.77	329.39
27 14 23 16-0007	MLF	2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	933.91	329.39
27 14 23 16-0008	MLF	4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	963.67	329.39
27 14 23 16-0009	MLF	6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,069.67	329.39
		For Aluminum Armored Cable, Add	1,301.66	
		For Steel Armored Cable, Add	1,382.65	
27 14 23 16-0010	MLF	8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,100.06	329.39



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0011 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,283.76 1,346.09 1,436.13	329.39
27 14 23 16-0012 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,264.41	384.29
27 14 23 16-0013 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	3,245.70 1,684.08 1,649.34	384.29
27 14 23 16-0014 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	3,991.49 1,775.34 1,579.70	384.29
27 14 23 16-0015 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	4,136.14 1,862.68 1,655.50	384.29
27 14 23 16-0016 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,048.29	384.29
27 14 23 16-0017 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,290.86	384.29
27 14 23 16-0018 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,566.78	384.29
27 14 23 16-0019 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,851.62	439.18
27 14 23 16-0020 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,591.55	439.18
27 14 23 16-0021 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0004)		
27 14 23 16-0022 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	870.44	329.39
27 14 23 16-0023 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	977.47	329.39
27 14 23 16-0024 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,121.88	329.39
27 14 23 16-0025 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,356.26	329.39
<i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,280.93 1,358.22	
27 14 23 16-0026 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,472.24	329.39
27 14 23 16-0027 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,918.34	329.39
<i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,314.29 1,400.26	
27 14 23 16-0028 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,772.34	384.29
27 14 23 16-0029 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,287.46	384.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	1,842.10 1,808.96	
27 14 23 16-0030 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,491.90	384.29
27 14 23 16-0031 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,563.02	384.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,981.73	
27 14 23 16-0032 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,600.18	384.29
27 14 23 16-0033 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,702.52	384.29
27 14 23 16-0034 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,170.56	384.29
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,463.62	
27 14 23 16-0035 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,391.29	439.18
27 14 23 16-0036 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	21,263.09	439.18
27 14 23 16-0037 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0004)		
27 14 23 16-0038 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	886.51	329.39
27 14 23 16-0039 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	998.89	329.39
27 14 23 16-0040 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,150.52	329.39
27 14 23 16-0041 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,396.62	329.39
27 14 23 16-0042 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,518.41	329.39
27 14 23 16-0043 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,986.80	329.39
27 14 23 16-0044 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,928.94	384.29
27 14 23 16-0045 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,469.80	384.29
27 14 23 16-0046 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,734.47	384.29

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27 14 23 16-0047 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,859.15	384.29
27 14 23 16-0048 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,948.16	384.29
27 14 23 16-0049 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,105.62	384.29
27 14 23 16-0050 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,697.07	384.29
27 14 23 16-0051 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	17,174.26	439.18
27 14 23 16-0052 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	22,289.64	439.18
27 14 23 16-0053 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0003)		
27 14 23 16-0054 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0003)		
27 14 23 16-0055 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,670.96	329.39
27 14 23 16-0056 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,003.42	329.39
27 14 23 16-0057 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,734.80	329.39
27 14 23 16-0058 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,083.84	329.39
27 14 23 16-0059 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,461.75	329.39
27 14 23 16-0060 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,751.80	384.29
27 14 23 16-0061 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,283.82	384.29
27 14 23 16-0062 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,322.88	384.29
27 14 23 16-0063 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,691.56	384.29
27 14 23 16-0064 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0003)		
27 14 23 16-0065 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,993.30	329.39
27 14 23 16-0066 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,153.60	329.39
27 14 23 16-0067 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,809.68	329.39
27 14 23 16-0068 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,448.86	329.39
27 14 23 16-0069 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,229.01	329.39
27 14 23 16-0070 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,512.27	384.29
27 14 23 16-0071 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,113.44	384.29
27 14 23 16-0072 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,732.04	384.29
27 14 23 16-0073 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,979.90	384.29
27 14 23 16-0074 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0003)		
27 14 23 16-0075 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,065.52	329.39
27 14 23 16-0076 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,233.83	329.39
27 14 23 16-0077 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,922.71	329.39
27 14 23 16-0078 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,593.85	329.39
27 14 23 16-0079 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,413.02	329.39
27 14 23 16-0080 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,755.86	384.29
27 14 23 16-0081 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,437.09	384.29
27 14 23 16-0082 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,236.62	384.29
27 14 23 16-0083 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,646.88	384.29
27 14 23 16-0084 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0002)		
27 14 23 16-0085 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0084)		
27 14 23 16-0086 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0085)		
27 14 23 16-0087 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	780.97	329.39
27 14 23 16-0088 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	784.47	329.39
27 14 23 16-0089 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	968.26	329.39



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27 14 23 16-0090 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	989.76 995.89 1,666.42	329.39
27 14 23 16-0091 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,098.02	329.39
27 14 23 16-0092 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,118.27 1,067.47 1,737.94	329.39
27 14 23 16-0093 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,496.40	384.29
27 14 23 16-0094 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	3,192.37 694.32 793.34	384.29
27 14 23 16-0095 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,034.52	384.29
27 14 23 16-0096 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	5,164.28 133.15 289.15	384.29
27 14 23 16-0097 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,220.30	384.29
27 14 23 16-0098 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,347.80	384.29
27 14 23 16-0099 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,690.96	384.29
27 14 23 16-0100 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0085)		
27 14 23 16-0101 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	868.71	329.39
27 14 23 16-0102 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	857.97	329.39
27 14 23 16-0103 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,125.63	329.39
27 14 23 16-0104 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,229.12 1,121.83 1,792.34	329.39
27 14 23 16-0105 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,470.56	329.39
27 14 23 16-0106 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,784.42 1,131.91 1,802.37	329.39
27 14 23 16-0107 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,468.32	384.29
27 14 23 16-0108 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	4,816.30 317.58 630.56	384.29
27 14 23 16-0109 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,206.09	384.29
27 14 23 16-0110 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <i>For Aluminum Armored Cable With Sub-Units, Add</i>	8,064.16 155.60	384.29
27 14 23 16-0111 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,168.29	384.29
27 14 23 16-0112 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,884.00	384.29
27 14 23 16-0113 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <i>For Aluminum Armored Cable With Sub-Units, Add</i>	14,393.00 1,312.84	384.29
27 14 23 16-0114 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0085)		
27 14 23 16-0115 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	884.70	329.39
27 14 23 16-0116 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	873.42	329.39
27 14 23 16-0117 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,154.46	329.39
27 14 23 16-0118 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,263.12	329.39
27 14 23 16-0119 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,516.64	329.39
27 14 23 16-0120 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,846.19	329.39
27 14 23 16-0121 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,659.71	384.29
27 14 23 16-0122 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,025.09	384.29
27 14 23 16-0123 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,534.37	384.29
27 14 23 16-0124 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,435.34	384.29
27 14 23 16-0125 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,594.68	384.29

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27 14 23 16-0126 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,396.17	384.29
27 14 23 16-0127 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,080.62	384.29
27 14 23 16-0128 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0084)		
27 14 23 16-0129 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0128)		
27 14 23 16-0130 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,687.68	329.39
27 14 23 16-0131 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,092.17	329.39
27 14 23 16-0132 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,064.57	329.39
27 14 23 16-0133 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,017.55	329.39
27 14 23 16-0134 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,538.49	329.39
27 14 23 16-0135 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,350.49	384.29
27 14 23 16-0136 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,538.75	384.29
27 14 23 16-0137 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,403.85	384.29
27 14 23 16-0138 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,498.45	384.29
27 14 23 16-0139 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0128)		
27 14 23 16-0140 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,297.37	329.39
27 14 23 16-0141 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,158.87	329.39
27 14 23 16-0142 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,666.91	329.39
27 14 23 16-0143 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,376.82	329.39
27 14 23 16-0144 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,731.90	329.39
27 14 23 16-0145 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,600.18	384.29
27 14 23 16-0146 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,135.27	384.29
27 14 23 16-0147 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,364.68	384.29
27 14 23 16-0148 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,039.73	384.29
27 14 23 16-0149 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0128)		
27 14 23 16-0150 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,384.79	329.39
27 14 23 16-0151 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,289.36	329.39
27 14 23 16-0152 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,822.81	329.39
27 14 23 16-0153 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,568.21	329.39
27 14 23 16-0154 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,991.05	329.39
27 14 23 16-0155 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,948.16	384.29
27 14 23 16-0156 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,560.01	384.29
27 14 23 16-0157 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,000.89	384.29
27 14 23 16-0158 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,909.69	384.29
27 14 23 16-0159 Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0001) Note: For non-conduit installations such as cable trays, surface runways, etc.		
27 14 23 16-0160 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0159)		
27 14 23 16-0161 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0160)		
27 14 23 16-0162 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0161)		
27 14 23 16-0163 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	1,027.76 219.59	439.18
27 14 23 16-0164 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	1,116.90 219.59	439.18
27 14 23 16-0165 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	1,146.66 219.59	439.18



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27 14 23 16-0166	MLF	6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,252.66 1,301.66 1,382.65 219.59	439.18
27 14 23 16-0167	MLF	8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,283.05 219.59	439.18
27 14 23 16-0168	MLF	12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,466.75 1,346.09 1,436.13 219.59	439.18
27 14 23 16-0169	MLF	18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,447.40 247.04	494.08
27 14 23 16-0170	MLF	24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,428.69 1,684.08 1,649.34 247.04	494.08
27 14 23 16-0171	MLF	36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,174.48 1,775.34 1,579.70 247.04	494.08
27 14 23 16-0172	MLF	48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,319.13 1,862.68 1,655.50 247.04	494.08
27 14 23 16-0173	MLF	60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,231.28 247.04	494.08
27 14 23 16-0174	MLF	72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,473.85 247.04	494.08
27 14 23 16-0175	MLF	96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,749.77 247.04	494.08
27 14 23 16-0176	MLF	120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,034.61 274.49	548.98
27 14 23 16-0177	MLF	144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,774.54 274.49	548.98
27 14 23 16-0178		50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0161)		
27 14 23 16-0179	MLF	1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,053.43 219.59	439.18
27 14 23 16-0180	MLF	2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,160.46 219.59	439.18
27 14 23 16-0181	MLF	4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,304.87 219.59	439.18
27 14 23 16-0182	MLF	6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,539.25 1,280.93 1,358.22 219.59	439.18
27 14 23 16-0183	MLF	8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,655.23 219.59	439.18
27 14 23 16-0184	MLF	12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,101.33 1,314.29 1,400.26 219.59	439.18
27 14 23 16-0185	MLF	18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,955.33 247.04	494.08
27 14 23 16-0186	MLF	24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,470.45 1,842.10 1,808.96 247.04	494.08
27 14 23 16-0187	MLF	36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,674.89 247.04	494.08
27 14 23 16-0188	MLF	48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,746.01 1,981.73 247.04	494.08
27 14 23 16-0189	MLF	60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,783.17 247.04	494.08
27 14 23 16-0190	MLF	72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,885.51 247.04	494.08
27 14 23 16-0191	MLF	96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,353.55 1,463.62 247.04	494.08
27 14 23 16-0192	MLF	120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	16,574.28 274.49	548.98
27 14 23 16-0193	MLF	144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	21,446.08 274.49	548.98
27 14 23 16-0194		62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0161)		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0195	MLF	1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,069.50	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0196	MLF	2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,181.88	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0197	MLF	4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,333.51	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0198	MLF	6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,579.61	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0199	MLF	8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,701.40	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0200	MLF	12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,169.79	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0201	MLF	18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,111.93	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0202	MLF	24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,652.79	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0203	MLF	36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,917.46	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0204	MLF	48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,042.14	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0205	MLF	60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,131.15	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0206	MLF	72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,288.61	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0207	MLF	96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,880.06	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0208	MLF	120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	17,357.25	548.98
		<i>For Work In Restricted Working Space, Add</i>	274.49	
27 14 23 16-0209	MLF	144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	22,472.63	548.98
		<i>For Work In Restricted Working Space, Add</i>	274.49	
27 14 23 16-0210		Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0160)		
27 14 23 16-0211		Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0210)		
27 14 23 16-0212	MLF	2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,853.95	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0213	MLF	4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,186.41	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0214	MLF	6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,917.79	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0215	MLF	8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,266.83	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0216	MLF	12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,644.74	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0217	MLF	18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,934.79	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0218	MLF	24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,466.81	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0219	MLF	36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,505.87	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0220	MLF	48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,874.55	494.08
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0221		50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0210)		
27 14 23 16-0222	MLF	2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,176.29	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0223	MLF	4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,336.59	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0224	MLF	6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,992.67	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0225	MLF	8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,631.85	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0226	MLF	12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,412.00	439.18
		<i>For Work In Restricted Working Space, Add</i>	219.59	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0227 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,695.26 247.04	494.08
27 14 23 16-0228 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,296.43 247.04	494.08
27 14 23 16-0229 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,915.03 247.04	494.08
27 14 23 16-0230 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	14,162.89 247.04	494.08
27 14 23 16-0231 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0210)		
27 14 23 16-0232 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,248.51 219.59	439.18
27 14 23 16-0233 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,416.82 219.59	439.18
27 14 23 16-0234 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,105.70 219.59	439.18
27 14 23 16-0235 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,776.84 219.59	439.18
27 14 23 16-0236 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,596.01 219.59	439.18
27 14 23 16-0237 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,938.85 247.04	494.08
27 14 23 16-0238 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,620.08 247.04	494.08
27 14 23 16-0239 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,419.61 247.04	494.08
27 14 23 16-0240 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	14,829.87 247.04	494.08
27 14 23 16-0241 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0159)		
27 14 23 16-0242 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0241)		
27 14 23 16-0243 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0242)		
27 14 23 16-0244 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	963.96 219.59	439.18
27 14 23 16-0245 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	967.46 219.59	439.18
27 14 23 16-0246 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,151.25 219.59	439.18
27 14 23 16-0247 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,172.75 995.89 1,666.42 219.59	439.18
27 14 23 16-0248 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,281.01 219.59	439.18
27 14 23 16-0249 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,301.26 1,067.47 1,737.94 219.59	439.18
27 14 23 16-0250 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,679.39 247.04	494.08
27 14 23 16-0251 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,375.36 694.32 793.34 247.04	494.08
27 14 23 16-0252 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,217.51 247.04	494.08
27 14 23 16-0253 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,347.27 133.15 289.15 247.04	494.08
27 14 23 16-0254 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,403.29 247.04	494.08
27 14 23 16-0255 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,530.79 247.04	494.08
27 14 23 16-0256 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,873.95 247.04	494.08
27 14 23 16-0257 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0242)		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0258	MLF	1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,051.70 219.59	439.18
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0259	MLF	2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,040.96 219.59	439.18
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0260	MLF	4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,308.62 219.59	439.18
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0261	MLF	6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,412.11 1,121.83	439.18
		<i>For Aluminum Armored Cable, Add</i>		
		<i>For Steel Armored Cable, Add</i>	1,792.34	
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0262	MLF	8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,653.55 219.59	439.18
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0263	MLF	12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,967.41 1,131.91	439.18
		<i>For Aluminum Armored Cable, Add</i>		
		<i>For Steel Armored Cable, Add</i>	1,802.37	
		<i>For Work In Restricted Working Space, Add</i>	219.59	
27 14 23 16-0264	MLF	18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,651.31 247.04	494.08
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0265	MLF	24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,999.29 317.58	494.08
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>		
		<i>For Steel Armored Cable, Add</i>	630.56	
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0266	MLF	36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,389.08 247.04	494.08
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0267	MLF	48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,247.15 155.60	494.08
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>		
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0268	MLF	60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,351.28 247.04	494.08
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0269	MLF	72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,066.99 247.04	494.08
		<i>For Work In Restricted Working Space, Add</i>		
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0270	MLF	96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,575.99 247.04	494.08
		<i>For Work In Restricted Working Space, Add</i>		
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,312.84	
		<i>For Work In Restricted Working Space, Add</i>	247.04	
27 14 23 16-0271		62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0242)		
27 14 23 16-0272	MLF	1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,067.69 219.59	439.18
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0273	MLF	2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,056.41 219.59	439.18
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0274	MLF	4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,337.45 219.59	439.18
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0275	MLF	6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,446.11 219.59	439.18
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0276	MLF	8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,699.63 219.59	439.18
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0277	MLF	12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,029.18 219.59	439.18
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0278	MLF	18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,842.70 247.04	494.08
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0279	MLF	24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,208.08 247.04	494.08
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0280	MLF	36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,717.36 247.04	494.08
		<i>For Work In Restricted Working Space, Add</i>		
27 14 23 16-0281	MLF	48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,618.33 247.04	494.08
		<i>For Work In Restricted Working Space, Add</i>		



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27 14 23 16-0282	MLF	60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,777.67 247.04	494.08
27 14 23 16-0283	MLF	72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,579.16 247.04	494.08
27 14 23 16-0284	MLF	96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	15,263.61 247.04	494.08
27 14 23 16-0285		Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0241)		
27 14 23 16-0286		Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0285)		
27 14 23 16-0287	MLF	2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,870.67 219.59	439.18
27 14 23 16-0288	MLF	4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,275.16 219.59	439.18
27 14 23 16-0289	MLF	6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,247.56 219.59	439.18
27 14 23 16-0290	MLF	8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,200.54 219.59	439.18
27 14 23 16-0291	MLF	12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,721.48 219.59	439.18
27 14 23 16-0292	MLF	18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,533.48 247.04	494.08
27 14 23 16-0293	MLF	24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	13,721.74 247.04	494.08
27 14 23 16-0294	MLF	36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	16,586.84 247.04	494.08
27 14 23 16-0295	MLF	48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	20,681.44 247.04	494.08
27 14 23 16-0296		50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0285)		
27 14 23 16-0297	MLF	2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,480.36 219.59	439.18
27 14 23 16-0298	MLF	4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,341.86 219.59	439.18
27 14 23 16-0299	MLF	6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,849.90 219.59	439.18
27 14 23 16-0300	MLF	8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,559.81 219.59	439.18
27 14 23 16-0301	MLF	12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,914.89 219.59	439.18
27 14 23 16-0302	MLF	18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,783.17 247.04	494.08
27 14 23 16-0303	MLF	24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,318.26 247.04	494.08
27 14 23 16-0304	MLF	36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	13,547.67 247.04	494.08
27 14 23 16-0305	MLF	48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	18,222.72 247.04	494.08
27 14 23 16-0306		62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0285)		
27 14 23 16-0307	MLF	2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,567.78 219.59	439.18
27 14 23 16-0308	MLF	4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,472.35 219.59	439.18
27 14 23 16-0309	MLF	6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,005.80 219.59	439.18
27 14 23 16-0310	MLF	8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,751.20 219.59	439.18
27 14 23 16-0311	MLF	12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,174.04 219.59	439.18
27 14 23 16-0312	MLF	18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,131.15 247.04	494.08

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27 14 23 16-0313 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,743.00	494.08
For Work In Restricted Working Space, Add	247.04	
27 14 23 16-0314 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,183.88	494.08
For Work In Restricted Working Space, Add	247.04	
27 14 23 16-0315 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	19,092.68	494.08
For Work In Restricted Working Space, Add	247.04	
27 14 23 16-0316 Hybrid, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0001) Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 14 23 16-0317 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0316)		
27 14 23 16-0318 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,273.44	329.39
27 14 23 16-0319 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,946.50	329.39
27 14 23 16-0320 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	3,352.85	384.29
27 14 23 16-0321 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	4,142.80	384.29
27 14 23 16-0322 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0316)		
27 14 23 16-0323 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,512.14	329.39
27 14 23 16-0324 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,291.38	329.39
27 14 23 16-0325 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	3,820.31	384.29
27 14 23 16-0326 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	11,147.64	384.29
27 14 23 16-0327 Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0001) Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		
27 14 23 16-0328 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0327)		
27 14 23 16-0329 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	1,456.43	439.18
For Work In Restricted Working Space, Add	219.59	
27 14 23 16-0330 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	2,129.49	439.18
For Work In Restricted Working Space, Add	219.59	
27 14 23 16-0331 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	3,535.84	494.08
For Work In Restricted Working Space, Add	247.04	
27 14 23 16-0332 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	4,325.79	494.08
For Work In Restricted Working Space, Add	247.04	
27 14 23 16-0333 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 14 23 16-0327)		
27 14 23 16-0334 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	1,695.13	439.18
For Work In Restricted Working Space, Add	219.59	
27 14 23 16-0335 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	2,474.37	439.18
For Work In Restricted Working Space, Add	219.59	
27 14 23 16-0336 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	4,003.30	494.08
For Work In Restricted Working Space, Add	247.04	
27 14 23 16-0337 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	11,330.63	494.08
For Work In Restricted Working Space, Add	247.04	
27 14 23 16-0338 Outdoor Fiber Optic Cable (27 14 23 16)		
27 14 23 16-0339 Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0338) Note: Excludes conduit or innerduct.		
27 14 23 16-0340 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0339)		
27 14 23 16-0341 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0340)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0342 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,343.09 131.65	658.78
27 14 23 16-0343 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,357.01 131.85	658.78
27 14 23 16-0344 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,371.13 131.84	658.78
27 14 23 16-0345 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,385.05 132.04	658.78
27 14 23 16-0346 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,413.07 132.23	658.78
27 14 23 16-0347 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,479.58 127.59	658.78
27 14 23 16-0348 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,521.34 128.17	658.78
27 14 23 16-0349 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,620.70 135.71	658.78
27 14 23 16-0350 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,725.30 137.07	658.78
27 14 23 16-0351 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,828.33 138.43	658.78
27 14 23 16-0352 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,964.25 166.45	658.78
27 14 23 16-0353 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,232.58 178.63	658.78
27 14 23 16-0354 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,502.27 211.51	658.78
27 14 23 16-0355 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,781.63 228.12	658.78
27 14 23 16-0356 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0340)		
27 14 23 16-0357 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,475.65 132.49	658.78
27 14 23 16-0358 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,619.94 135.52	658.78
27 14 23 16-0359 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,767.63 135.91	658.78
27 14 23 16-0360 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,913.79 136.49	658.78
27 14 23 16-0361 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,206.10 138.81	658.78
27 14 23 16-0362 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,668.14 140.75	658.78
27 14 23 16-0363 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,106.60 142.29	658.78
27 14 23 16-0364 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,998.22 168.19	658.78
27 14 23 16-0365 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,895.24 180.57	658.78
27 14 23 16-0366 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,790.92 192.93	658.78
27 14 23 16-0367 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,732.42 231.79	658.78
27 14 23 16-0368 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,631.06 266.21	658.78
27 14 23 16-0369 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,551.55 321.49	658.78
27 14 23 16-0370 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,510.13 324.21	658.78
27 14 23 16-0371 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0340)		
27 14 23 16-0372 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,404.82 110.89	658.78
27 14 23 16-0373 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,511.44 118.92	658.78
27 14 23 16-0374 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,617.88 126.75	658.78
27 14 23 16-0375 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,749.39 144.30	658.78
27 14 23 16-0376 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,937.72 150.47	658.78
27 14 23 16-0377 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,270.68 160.37	658.78
27 14 23 16-0378 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,586.08 184.42	658.78
27 14 23 16-0379 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,189.73 204.93	658.78
27 14 23 16-0380 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,895.77 235.63	658.78

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0381 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,547.89 253.55	658.78
27 14 23 16-0382 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,236.19 286.98	658.78
27 14 23 16-0383 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,628.27 322.67	658.78
27 14 23 16-0384 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,042.70 366.20	658.78
27 14 23 16-0385 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,478.96 336.37	658.78
27 14 23 16-0386 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0386)		
27 14 23 16-0387 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0387)		
27 14 23 16-0388 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,436.27 164.33	658.78
27 14 23 16-0389 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,450.39 164.33	658.78
27 14 23 16-0390 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,464.11 165.11	658.78
27 14 23 16-0391 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,478.23 165.10	658.78
27 14 23 16-0392 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,505.87 166.27	658.78
27 14 23 16-0393 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,566.96 167.81	658.78
27 14 23 16-0394 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,608.72 168.77	658.78
27 14 23 16-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,712.92 168.01	658.78
27 14 23 16-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,817.51 173.99	658.78
27 14 23 16-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,920.55 176.31	658.78
27 14 23 16-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,064.58 187.53	658.78
27 14 23 16-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,340.85 213.62	658.78
27 14 23 16-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,653.26 222.33	658.78
27 14 23 16-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,908.25 245.72	658.78
27 14 23 16-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0396)		
27 14 23 16-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,567.74 168.00	658.78
27 14 23 16-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,712.54 172.64	658.78
27 14 23 16-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,720.71 175.29	658.78
27 14 23 16-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,002.91 180.95	658.78
27 14 23 16-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,293.09 189.65	658.78
27 14 23 16-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,747.59 203.18	658.78
27 14 23 16-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,182.97 215.94	658.78
27 14 23 16-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,074.58 262.54	658.78
27 14 23 16-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,966.00 268.53	658.78
27 14 23 16-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,860.32 290.38	658.78
27 14 23 16-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,796.40 320.54	658.78
27 14 23 16-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,691.38 316.28	658.78
27 14 23 16-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,709.31 325.74	658.78
27 14 23 16-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,575.47 369.64	658.78
27 14 23 16-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0386)		
27 14 23 16-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,476.81 139.19	658.78



Communications			27
Structured Cabling			27 10
Communications Cabling			27 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,581.21 150.47	658.78
27 14 23 16-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,685.43 161.73	658.78
27 14 23 16-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,789.83 172.98	658.78
27 14 23 16-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,060.25 186.06	658.78
27 14 23 16-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,325.43 218.03	658.78
27 14 23 16-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,650.37 236.82	658.78
27 14 23 16-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,279.30 292.60	658.78
27 14 23 16-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,920.00 335.24	658.78
27 14 23 16-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,562.90 373.31	658.78
27 14 23 16-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,238.91 416.29	658.78
27 14 23 16-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,610.69 490.86	658.78
27 14 23 16-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,189.87 507.43	658.78
27 14 23 16-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,418.92 523.83	658.78
27 14 23 16-0432 Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0338) Note: Excludes trenching.		
27 14 23 16-0433 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0432)		
27 14 23 16-0434 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0433)		
27 14 23 16-0435 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,251.59 131.65	
27 14 23 16-0436 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,265.51 131.85	
27 14 23 16-0437 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,279.63 131.84	
27 14 23 16-0438 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,293.55 132.04	
27 14 23 16-0439 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,321.57 132.23	
27 14 23 16-0440 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,388.08 127.59	
27 14 23 16-0441 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,429.84 128.17	
27 14 23 16-0442 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,529.20 135.71	
27 14 23 16-0443 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,633.80 137.07	
27 14 23 16-0444 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,736.83 138.43	
27 14 23 16-0445 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,872.75 166.45	
27 14 23 16-0446 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,141.08 178.63	
27 14 23 16-0447 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,410.77 211.51	
27 14 23 16-0448 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,690.13 228.12	
27 14 23 16-0449 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0433)		
27 14 23 16-0450 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,384.15 132.49	
27 14 23 16-0451 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,528.44 135.52	
27 14 23 16-0452 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,676.13 135.91	
27 14 23 16-0453 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,822.29 136.49	
27 14 23 16-0454 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,114.60 138.81	
27 14 23 16-0455 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,576.64 140.75	
27 14 23 16-0456 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,015.10 142.29	
27 14 23 16-0457 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,906.72 168.19	

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0458	MLF	48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,803.74 180.57	
27 14 23 16-0459	MLF	60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,699.42 192.93	
27 14 23 16-0460	MLF	72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,640.92 231.79	
27 14 23 16-0461	MLF	96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,539.56 266.21	
27 14 23 16-0462	MLF	120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,460.05 321.49	
27 14 23 16-0463	MLF	144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,418.63 324.21	
27 14 23 16-0464 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0433)				
27 14 23 16-0465	MLF	2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,313.32 110.89	
27 14 23 16-0466	MLF	4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,419.94 118.92	
27 14 23 16-0467	MLF	6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,526.38 126.75	
27 14 23 16-0468	MLF	8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,657.89 144.30	
27 14 23 16-0469	MLF	12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,846.22 150.47	
27 14 23 16-0470	MLF	18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,179.18 160.37	
27 14 23 16-0471	MLF	24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,494.58 184.42	
27 14 23 16-0472	MLF	36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,098.23 204.93	
27 14 23 16-0473	MLF	48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,804.27 235.63	
27 14 23 16-0474	MLF	60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,456.39 253.55	
27 14 23 16-0475	MLF	72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,144.69 286.98	
27 14 23 16-0476	MLF	96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,536.77 322.67	
27 14 23 16-0477	MLF	120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,951.20 366.20	
27 14 23 16-0478	MLF	144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,387.46 336.37	
27 14 23 16-0479 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0432)				
27 14 23 16-0480 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0479)				
27 14 23 16-0481	MLF	2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,344.77 164.33	
27 14 23 16-0482	MLF	4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,358.89 164.33	
27 14 23 16-0483	MLF	6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,372.61 165.11	
27 14 23 16-0484	MLF	8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,386.73 165.10	
27 14 23 16-0485	MLF	12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,414.37 166.27	
27 14 23 16-0486	MLF	18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,475.46 167.81	
27 14 23 16-0487	MLF	24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,517.22 168.77	
27 14 23 16-0488	MLF	36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,621.42 168.01	
27 14 23 16-0489	MLF	48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,726.01 173.99	
27 14 23 16-0490	MLF	60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,829.05 176.31	
27 14 23 16-0491	MLF	72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,973.08 187.53	
27 14 23 16-0492	MLF	96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,249.35 213.62	
27 14 23 16-0493	MLF	120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,561.76 222.33	
27 14 23 16-0494	MLF	144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,816.75 245.72	
27 14 23 16-0495 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0479)				



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0496 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,476.24 168.00	
27 14 23 16-0497 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,621.04 172.64	
27 14 23 16-0498 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,629.21 175.29	
27 14 23 16-0499 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,911.41 180.95	
27 14 23 16-0500 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,201.59 189.65	
27 14 23 16-0501 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,656.09 203.18	
27 14 23 16-0502 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,091.47 215.94	
27 14 23 16-0503 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,983.08 262.54	
27 14 23 16-0504 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,874.50 268.53	
27 14 23 16-0505 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,268.82 290.38	
27 14 23 16-0506 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,704.90 320.54	
27 14 23 16-0507 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,599.88 316.28	
27 14 23 16-0508 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,617.81 325.74	
27 14 23 16-0509 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,483.97 369.64	
27 14 23 16-0510 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0479)		
27 14 23 16-0511 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,385.31 139.19	
27 14 23 16-0512 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,489.71 150.47	
27 14 23 16-0513 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,593.93 161.73	
27 14 23 16-0514 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,698.33 172.98	
27 14 23 16-0515 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,968.75 186.06	
27 14 23 16-0516 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,233.93 218.03	
27 14 23 16-0517 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,558.87 236.82	
27 14 23 16-0518 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,187.80 292.60	
27 14 23 16-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,828.50 335.24	
27 14 23 16-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,471.40 373.31	
27 14 23 16-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,147.41 416.29	
27 14 23 16-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,519.19 490.86	
27 14 23 16-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,980.70 507.43	
27 14 23 16-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,327.42 523.83	
27 14 23 16-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 14 23 16-0338)		
27 14 23 16-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 14 23 16-0525)		
27 14 23 16-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 14 23 16-0526)		
27 14 23 16-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,807.74 128.36	2,436.35
27 14 23 16-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,823.78 128.95	2,436.35
27 14 23 16-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,840.02 129.33	2,436.35
27 14 23 16-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,856.46 129.72	2,436.35
27 14 23 16-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,888.74 130.69	2,436.35
27 14 23 16-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,958.53 132.81	2,436.35
27 14 23 16-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,007.05 134.55	2,436.35

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0535	MLF	36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,127.11 138.03	2,436.35
27 14 23 16-0536	MLF	48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,220.10 157.17	2,436.35
27 14 23 16-0537	MLF	60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,357.94 160.27	2,436.35
27 14 23 16-0538	MLF	72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,486.11 181.33	2,436.35
27 14 23 16-0539	MLF	96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,783.26 201.25	2,436.35
27 14 23 16-0540	MLF	120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,082.33 234.11	2,436.35
27 14 23 16-0541	MLF	144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,398.61 260.01	2,436.35
27 14 23 16-0542		Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0338) Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 14 23 16-0543		Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0542)		
27 14 23 16-0544	MLF	12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	3,338.68	548.98
27 14 23 16-0545	MLF	24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,277.79	548.98
27 14 23 16-0546	MLF	48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	6,369.79	548.98
27 14 23 16-0547		Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0542)		
27 14 23 16-0548	MLF	12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,536.47	548.98
27 14 23 16-0549	MLF	24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	5,070.15	548.98
27 14 23 16-0550	MLF	48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	7,404.62	548.98
27 14 23 16-0551		Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0338) Note: Singlemode and multimode combination cable. Excludes trenching.		
27 14 23 16-0552		Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0551)		
27 14 23 16-0553	MLF	12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	3,247.18	503.23
27 14 23 16-0554	MLF	24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,186.29	503.23
27 14 23 16-0555	MLF	48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	6,278.29	503.23
27 14 23 16-0556		Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0551)		
27 14 23 16-0557	MLF	12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,444.97	503.23
27 14 23 16-0558	MLF	24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	4,978.65	503.23
27 14 23 16-0559	MLF	48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	7,313.12	503.23
27 14 23 16-0560		Network Communications Cabling And Related Products (27 14 23 16)		
27 14 23 16-0561	EA	AC Surge Suppression Assembly..... Note: Liebert AccuVar Transient Voltage Surge Protection (TVSS) device or Atlantic Scientific Zone Defender Pro Model # 16100. Includes testing.	282.98	11.43
27 14 23 16-0562	EA	Single Mode Fiber Optic To Ethernet Media Converter Note: Transition Networks part no. J/E-PSW-FX-02(SM). Includes testing.	474.83	13.73
27 14 23 16-0563	EA	6' Long Single Mode Patch Cord With SC duplex Connectors At Both Ends..... Note: Includes testing.	25.47	1.47
27 14 23 16-0564	EA	KVM (Keyboard, Video, Mouse) Cable Note: Raritan CCP40. Includes testing.	57.67	1.84
27 14 23 16-0565	EA	6' Long USB (Universal Serial Bus) Cable..... Note: Includes testing.	9.09	1.47
27 14 23 16-0566	EA	10' Long USB (Universal Serial Bus) Cable..... Note: Includes testing.	10.75	1.84
27 14 23 16-0567	EA	6' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End Note: Includes testing.	11.59	1.47
27 14 23 16-0568	EA	10' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End Note: Includes testing.	13.25	1.84
27 14 23 16-0569	EA	6' Long Single Mode Patch Cord With SC Connectors At Both Ends Note: Includes testing.	18.91	1.47
27 14 23 16-0570	EA	20' Long Single Mode Patch Cord With SC Duplex Connectors At Both Ends..... Note: Includes testing.	40.75	1.84
27 14 23 16-0571	EA	6' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other Note: Includes testing.	32.20	1.47
27 14 23 16-0572	EA	20' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other Note: Includes testing.	40.75	1.84
27 14 23 16-0573	EA	6' Long Single Mode Patch Cord With SC Duplex Connector At One End And FC Connectors At The Other..... Note: Includes testing.	59.81	1.47



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0574 EA 6' Long Single Mode Patch Cord With SC Connectors At One End And FC Connectors At The Other.....	59.81	1.47
Note: Includes testing.		
27 14 23 16-0575 LF 6 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	0.70	
Note: Corning part no. 006ESF-T41O1D20. Includes testing.		
27 14 23 16-0576 LF 12 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	5.44	
Note: Corning part no. 012ESF-T41O1D20. Includes testing.		
27 14 23 16-0577 LF 24 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	6.64	
Note: Corning part no. 024EW4-T41O1D20. Includes testing.		
27 14 23 16-0578 LF 72 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	10.81	
Note: Corning part no. 072EW4-T41O1D20. Includes testing.		
27 14 23 16-0579 LF 144 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	16.96	
Note: Corning part no. 144EW4-T41O1D20. Includes testing.		
27 14 23 16-0580 LF 36 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable.....	10.35	
Note: Corning part no. 036E81-61131-24. Includes testing.		
27 14 23 16-0581 LF 72 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable.....	15.88	
Note: Corning part no. 072E81-T3131-24. Includes testing.		
27 14 23 16-0582 EA Aerial Storage Unit.....	78.25	9.15
Note: Alcola part no. FSU-16. Includes testing.		
27 14 23 16-0583 EA Spider Fan-Out Kits With SC Connectors.....	94.68	9.15
Note: Corning part no. SFK-P-12-900-S.		
27 14 23 16-0584 LF Ultraviolet Resistant Rated Category 6 Cable.....	0.93	0.17
Note: Includes RJ 45 connectors at both ends. CommScope part no. 6NF4+. Includes testing.		
27 14 23 16-0585 LF RG11 Coaxial Cable NEC CMR.....	3.51	1.72
Note: Corning part no. SFK-P-12-900-S.		
27 14 23 16-0586 LF Outdoor Rated UL Type CL2.....	3.44	
Note: Aluminum foil-polyester tape 100% shield coverage twisted (6 twists per foot) single pair 19 X 27 stranding tin copper coated #14 AWG conductor Audio, Control, and Instrumentation Cable with polyethylene insulation and PVC jacket. Belden 8720. Includes testing.		
27 14 23 16-0587 LF Indoor Plenum Rated UL Type CMP.....	4.86	1.72
Note: 100% aluminum foil shield coverage twisted (6 twists per foot) 4 pairs 7X32 stranding tin copper coated #24 AWG conductor Computer Cable with Fluorinated Ethylene Propylene insulation and plenum rated jacket. Belden 82504. Includes testing.		
27 14 33 Communications Coaxial Cabling (27 14)		
27 14 33 16 Communications Coaxial Cabling (27 14 33)		
27 14 33 16-0001 Indoor Coaxial Cable (27 14 33 16)		
27 14 33 16-0002 Coaxial, Indoor Telecommunications Cable (27 14 33 16-0002)		
27 14 33 16-0003 Coaxial, Indoor Telecommunications Cable, Installed In Conduit (27 14 33 16-0003)		
27 14 33 16-0004 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,025.91	384.29
27 14 33 16-0005 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	2,125.26	384.29
27 14 33 16-0006 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	917.57	439.18
27 14 33 16-0007 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120).....	2,649.82	439.18
27 14 33 16-0008 Coaxial, Indoor Telecommunications Cable, Installed Exposed (27 14 33 16-0008)		
27 14 33 16-0009 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108).....	1,666.39	768.57
For Work In Restricted Working Space, Add	384.29	
27 14 33 16-0010 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108).....	2,765.74	768.57
For Work In Restricted Working Space, Add	384.29	
27 14 33 16-0011 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114).....	1,649.55	878.37
For Work In Restricted Working Space, Add	439.19	
27 14 33 16-0012 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120).....	3,381.80	878.37
For Work In Restricted Working Space, Add	439.19	
27 14 33 16-0013 Coaxial Distribution Cable (27 14 33 16-0013)		
Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal		
27 14 33 16-0014 MLF RG-6/U Coaxial Distribution Cable, In Conduit.....	1,558.50	267.67
27 14 33 16-0015 MLF RG-6A/U Coaxial Distribution Cable, In Conduit.....	5,256.61	267.67
27 14 33 16-0016 MLF RG-8/U Coaxial Distribution Cable, In Conduit.....	2,869.45	282.73
27 14 33 16-0017 MLF RG-8A/U Coaxial Distribution Cable, In Conduit.....	3,564.11	282.73
27 14 33 16-0018 MLF RG-11/U Coaxial Distribution Cable, In Conduit.....	3,228.53	334.59
27 14 33 16-0019 MLF RG-11A/U Coaxial Distribution Cable, In Conduit.....	4,571.95	334.59
27 14 33 16-0020 MLF RG-11/U Coaxial Distribution Cable, In Plenum.....	10,211.38	669.18
27 14 33 16-0021 MLF RG-58/U Coaxial Distribution Cable, In Conduit.....	1,175.33	234.22
27 14 33 16-0022 MLF RG-58A/U Coaxial Distribution Cable, In Conduit.....	1,312.98	234.22
27 14 33 16-0023 MLF RG-58C/U Coaxial Distribution Cable, In Conduit.....	1,555.47	234.22
27 14 33 16-0024 MLF RG-58/U Coaxial Distribution Cable, In Plenum.....	3,724.87	468.42
27 14 33 16-0025 MLF RG-59/U Coaxial Distribution Cable, In Conduit.....	1,818.43	234.22
27 14 33 16-0026 MLF RG-59/U Coaxial Distribution Cable, In Plenum.....	4,446.35	468.42
27 14 33 16-0027 MLF 1/2" Hard Line Coaxial, In Conduit.....	1,954.96	468.42
27 14 33 16-0028 Outdoor Coaxial Cable (27 14 33 16)		
27 14 33 16-0029 Coaxial Cables "Television" Copper Covered Aluminum Center Core (27 14 33 16-0029)		
Note: Corrugated steel armor jacket.		
27 14 33 16-0030 MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	4,661.52	1,252.37

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27 14 33 16-0031 MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial	2,987.40	880.89
27 14 33 16-0032 MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial	2,405.06	519.70
27 14 33 16-0033 MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial	1,440.82	519.70
27 14 33 16-0034 MLF TV Coaxial Cable Drop 1/4" Diameter, Placed In Conduit	2,171.70	812.05
27 14 43 Communications Faceplates And Connectors (27 14)		
27 14 43 00-0001 Wall Mounted Telephone Faceplates (27 14 43) Note: Includes standard telephone mounting studs.		
27 14 43 00-0002 Plastic Faceplates For Wall Mounted Telephones (27 14 43 00-0001)		
27 14 43 00-0003 EA Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones	30.05	11.43
27 14 43 00-0004 Stainless Steel Faceplates For Wall Mounted Telephones (27 14 43 00-0001)		
27 14 43 00-0005 EA Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones	22.40	4.58
Note: Requires one snap-in modular jack.		
27 14 43 00-0006 EA Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones	40.77	11.43
27 14 43 00-0007 EA Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones	47.67	13.73
27 14 43 00-0008 EA Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	21.62	4.58
Note: Requires one snap-in modular jack.		
27 14 43 00-0009 EA Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	37.51	11.43
27 14 43 00-0010 EA Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	44.48	13.73
27 14 43 00-0011 Plastic Communications Faceplates (27 14 43) Note: Excludes modular jacks. See CSI section 27 14 43 00-0051 for modular jacks.		
27 14 43 00-0012 EA One Port, Single Gang, Plastic Communication Faceplate With Station ID	6.72	2.29
27 14 43 00-0013 EA Two Port, Single Gang, Plastic Communication Faceplate With Station ID	6.72	2.29
27 14 43 00-0014 EA Three Port, Single Gang, Plastic Communication Faceplate With Station ID	6.72	2.29
27 14 43 00-0015 EA Four Port, Single Gang, Plastic Communication Faceplate With Station ID	6.72	2.29
27 14 43 00-0016 EA Six Port, Single Gang, Plastic Communication Faceplate With Station ID	6.72	2.29
27 14 43 00-0017 EA Four Port, Double Gang, Plastic Communications Faceplate With Station ID	10.60	2.29
27 14 43 00-0018 EA Six Port, Double Gang, Plastic Communication Faceplate With Station ID	10.60	2.29
27 14 43 00-0019 EA Eight Port, Double Gang, Plastic Communication Faceplate With Station ID	10.60	2.29
27 14 43 00-0020 EA Nine Port, Double Gang, Plastic Communication Faceplate With Station ID	10.60	2.29
27 14 43 00-0021 EA Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID	10.60	2.29
27 14 43 00-0022 Stainless Steel Communications Faceplates (27 14 43) Note: Excludes modular jacks. See CSI section 27 14 43 00-0051 for modular jacks.		
27 14 43 00-0023 Stainless Steel Communications Faceplates (27 14 43 00-0022)		
27 14 43 00-0024 EA One Port, Single Gang, Stainless Steel Communications Faceplate	11.88	2.29
27 14 43 00-0025 EA Two Port, Single Gang, Stainless Steel Communications Faceplate	11.88	2.29
27 14 43 00-0026 EA Three Port, Single Gang, Stainless Steel Communications Faceplate	11.88	2.29
27 14 43 00-0027 EA Four Port, Single Gang, Stainless Steel Communications Faceplate	12.63	2.29
27 14 43 00-0028 EA Six Port, Single Gang, Stainless Steel Communications Faceplate	12.63	2.29
27 14 43 00-0029 EA Four Port, Double Gang, Stainless Steel Communications Faceplate	16.70	2.29
27 14 43 00-0030 EA Six Port, Double Gang, Stainless Steel Communications Faceplate	17.18	2.29
27 14 43 00-0031 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate	19.73	2.29
27 14 43 00-0032 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate	19.73	2.29
27 14 43 00-0033 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate	19.73	2.29
27 14 43 00-0034 Stainless Steel Communications Faceplates With Station ID (27 14 43 00-0022)		
27 14 43 00-0035 EA One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	16.61	2.29
27 14 43 00-0036 EA Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	16.61	2.29
27 14 43 00-0037 EA Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	16.61	2.29
27 14 43 00-0038 EA Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	16.61	2.29
27 14 43 00-0039 EA Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	16.61	2.29
27 14 43 00-0040 EA Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	34.68	2.29
27 14 43 00-0041 EA Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	34.68	2.29
27 14 43 00-0042 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	34.68	2.29
27 14 43 00-0043 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID	34.68	2.29
27 14 43 00-0044 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	34.68	2.29
27 14 43 00-0045 Surface Mount Plastic Communication Boxes (27 14 43) Note: Excludes modular jacks. See CSI section 27 14 43 00-0051 for modular jacks.		
27 14 43 00-0046 EA One Port, Surface Mount Plastic Communication Box With Station ID	25.61	11.45
27 14 43 00-0047 EA Two Port, Surface Mount Plastic Communication Box With Station ID	26.08	11.45
27 14 43 00-0048 EA Four Port, Surface Mount Plastic Communication Box With Station ID	29.35	11.45
27 14 43 00-0049 EA Six Port, Surface Mount Plastic Communication Box With Station ID	33.23	11.45
27 14 43 00-0050 EA Twelve Port, Surface Mount Plastic Communication Box With Station ID	37.29	11.45
27 14 43 00-0051 Snap-In Modular Jacks (27 14 43) Note: Includes termination.		
27 14 43 00-0052 EA Cat 3, Snap-In Modular Jack	23.71	9.16
27 14 43 00-0053 EA Cat 5E, Snap-In Modular Jack	24.76	9.16



Communications			27
Structured Cabling			27 10
Communications Cabling			27 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 43 00-0054 EA Cat 5E Shielded, Snap-In Modular Jack	27.88	9.16
27 14 43 00-0055 EA Cat 6, Snap-In Modular Jack	27.88	9.16
27 14 43 00-0056 EA Cat 6 Shielded, Snap-In Modular Jack	31.38	9.16
27 14 43 00-0057 EA Cat 6A, Snap-In Modular Jack	31.91	9.16
27 14 43 00-0058 EA Voice, RJ-11, Snap-In Modular Jack	16.05	4.59
27 14 43 00-0059 EA SC Type Fiber Optic, Snap-In Modular Jack	26.08	9.16
27 14 43 00-0060 EA ST Type Fiber Optic, Snap-In Modular Jack	28.73	9.16
27 14 43 00-0061 EA LC Type Fiber Optic, Snap-In Modular Jack	33.93	9.16
27 14 43 00-0062 EA Blank Fill In, Snap-In Modular Jack	5.08	2.29
27 14 43 00-0063 EA Open Cable Pass Through Insert, Snap-In Modular Jack	5.80	2.29
27 14 43 00-0064 EA Coaxial F-Type Coupler, Snap-In Modular Jack	19.52	6.87
Note: Includes female to female connection.		
For Gold Bulkhead, Add		
1.01		
27 14 43 00-0065 EA RCA Jack Pass-Through Coupler, Snap-In Modular Jack	19.71	6.87
Note: Includes female to female connection.		
27 14 43 00-0066 EA RCA Solder Coupler, Snap-In Modular Jack	41.10	9.16
27 14 43 00-0067 EA RCA Jack With 110 Punch Down, Snap-In Modular Jack	48.76	9.16
27 14 43 00-0068 EA 3.5 m Mini Stereo Jack, Snap-In Modular Jack	24.47	9.16
27 14 43 00-0069 EA MT-RJ Pass-Through Coupler, Snap-In Modular Jack	23.81	4.59
27 14 43 00-0070 EA BNC Connector, Snap-In Modular Jack	27.59	9.16
27 14 43 00-0071 EA S-Video With 110 Punch Down, Snap-In Modular Jack	30.43	9.16
27 14 43 00-0072 PR Speaker Connectors, Snap-In Modular Jack	42.15	13.75
Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.		
27 14 43 00-0073 EA USB Audio Video Connector, Snap-In Modular Jack	43.49	9.16
27 14 43 00-0074 Communications Equipment Labeling (27 14 43)		
27 14 43 00-0075 EA Label Both Ends Of One 4 Pair Cable	18.01	
27 14 43 00-0076 EA Label single gang face plate (2 labels required)	14.41	
27 14 43 00-0077 EA Label two gang face plate (4 labels required)	21.61	
27 14 43 00-0078 EA Label both ends of a Siamese (dual 4 Pair cable)	18.01	
27 14 53 Communications Cable Innerduct (27 14)		
Note: Includes pull rope. Excludes conduit.		
27 14 53 00-0001 Indoor Innerduct (27 14 53)		
27 14 53 00-0002 Indoor Innerduct, Installed In Conduit (27 14 53 00-0001)		
27 14 53 00-0003 Riser Rated, Indoor Innerduct, Installed In Conduit (27 14 53 00-0002)		
27 14 53 00-0004 MLF 1" Riser Rated, Indoor Innerduct, Installed In Conduit	3,401.38	1,372.45
27 14 53 00-0005 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit	4,428.09	1,829.93
27 14 53 00-0006 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit	5,817.97	2,287.42
27 14 53 00-0007 MLF 2" Riser Rated, Indoor Innerduct, Installed In Conduit	6,830.72	2,744.89
27 14 53 00-0008 Plenum Rated, Indoor Innerduct, Installed In Conduit (27 14 53 00-0002)		
27 14 53 00-0009 MLF 1" Plenum Rated, Indoor Innerduct, Installed In Conduit	4,798.17	1,372.45
27 14 53 00-0010 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit	6,062.34	1,829.93
27 14 53 00-0011 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit	7,983.00	2,287.42
27 14 53 00-0012 MLF 2" Plenum Rated, Indoor Innerduct, Installed In Conduit	9,624.30	2,744.89
27 14 53 00-0013 Indoor Innerduct, Installed Exposed (27 14 53 00-0001)		
27 14 53 00-0014 Riser Rated, Indoor Innerduct, Installed Exposed (27 14 53 00-0013)		
27 14 53 00-0015 MLF 1" Riser Rated, Indoor Innerduct, Installed Exposed	4,316.35	1,829.93
For Work In Restricted Working Space, Add		
1,097.96		
27 14 53 00-0016 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed	5,343.06	2,287.42
For Work In Restricted Working Space, Add		
1,372.45		
27 14 53 00-0017 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed	6,732.94	2,744.89
For Work In Restricted Working Space, Add		
1,646.94		
27 14 53 00-0018 MLF 2" Riser Rated, Indoor Innerduct, Installed Exposed	7,745.68	3,202.38
For Work In Restricted Working Space, Add		
1,921.43		
27 14 53 00-0019 Plenum Rated, Indoor Innerduct, Installed Exposed (27 14 53 00-0013)		
27 14 53 00-0020 MLF 1" Plenum Rated, Indoor Innerduct, Installed Exposed	5,713.14	1,829.93
For Work In Restricted Working Space, Add		
1,097.96		
27 14 53 00-0021 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed	6,977.31	2,287.42
For Work In Restricted Working Space, Add		
1,372.45		
27 14 53 00-0022 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed	8,897.97	2,744.89
For Work In Restricted Working Space, Add		
1,646.94		
27 14 53 00-0023 MLF 2" Plenum Rated, Indoor Innerduct, Installed Exposed	10,539.26	3,202.38
For Work In Restricted Working Space, Add		
1,921.43		
27 14 53 00-0024 Outdoor Innerduct (27 14 53)		
27 14 53 00-0025 Outdoor Innerduct, Installed In Conduit (27 14 53 00-0024)		
27 14 53 00-0026 MLF 1" Outdoor Innerduct, Installed In Conduit	3,233.77	1,372.45
27 14 53 00-0027 MLF 1-1/4" Outdoor Innerduct, Installed In Conduit	4,180.92	1,829.93

27	27 Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 53 00-0028 MLF 1-1/2" Outdoor Innerduct, Installed In Conduit.....	5,318.20	2,287.42
27 14 53 00-0029 MLF 2" Outdoor Innerduct, Installed In Conduit.....	6,357.77	2,744.89
27 14 53 00-0030 Outdoor Innerduct, Buried In Trench (27 14 53 00-0024)		
27 14 53 00-0031 MLF 1" Outdoor Innerduct, Buried In Trench.....	2,318.81	
27 14 53 00-0032 MLF 1-1/4" Outdoor Innerduct, Buried In Trench.....	3,265.95	
27 14 53 00-0033 MLF 1-1/2" Outdoor Innerduct, Buried In Trench.....	4,403.23	
27 14 53 00-0034 MLF 2" Outdoor Innerduct, Buried In Trench.....	5,442.80	
27 14 63 Communications Multimedia Modular Patch Panels (27 14)		
27 14 63 00-0001 Communications Multimedia Modular Patch Panels (27 14 63)		
Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 14 43 00-0051 for modular jacks.		
27 14 63 00-0002 EA 12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded.....	80.01	4.58
27 14 63 00-0003 EA 16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	88.23	4.58
27 14 63 00-0004 EA 24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	104.14	4.58
27 14 63 00-0005 EA 36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	109.03	4.58
27 14 63 00-0006 EA 48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	119.35	5.72
27 14 63 00-0007 EA 24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	113.08	4.58
27 14 63 00-0008 EA 48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	141.90	5.72
27 14 63 00-0009 EA Rack Mount Rear Cable Management Bar.....	39.81	5.72
27 16 Communications Connecting Cords, Devices, And Adapters (27 10)		
27 16 16 Communications Media Converters, Adapters, and Transceivers (27 16)		
27 16 16 00-0001 Fiber Optic Receivers (27 16 16)		
27 16 16 00-0002 EA Fiber Optic Receiver, Range 6.2 Miles.....	642.13	45.75
27 16 16 00-0003 EA Fiber Optic MM Dual Video Receiver, Manual Gain.....	666.94	90.11
Note: With video presence Ind, RM.		
27 16 16 00-0004 Fiber Optic Transmitters (27 16 16)		
27 16 16 00-0005 EA Fiber Optic Transmitter, Range 6.2 Miles.....	642.13	45.75
27 16 16 00-0006 EA Fiber Optic MM Dual Video Transmitter Video Presence Indicator.....	666.94	90.11
27 16 16 00-0007 Fiber Optic Repeaters (27 16 16)		
Note: Consist of transmitter and receiver, back-to-back. Excludes power source.		
27 16 16 00-0008 EA Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power.....	733.62	91.50
27 16 16 00-0009 EA Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power.....	1,160.11	182.99
27 16 16 00-0010 Fiber Optic Transceivers (27 16 16)		
27 16 16 00-0011 EA Fiber Optic Transceivers, 3,000 Miles Range.....	786.60	182.99
27 16 16 00-0012 EA Fiber Optic Transceivers, Digital 2,000 Miles Range.....	786.60	182.99
27 16 16 00-0013 EA Fiber Optic Ethernet Transceiver.....	1,029.73	274.49
27 16 16 00-0014 EA Transceiver (Low Cost Bi- Directional).....	366.00	68.62
27 16 19 Communications Patch Cords, Station Cords, And Cross Connect Wire (27 16)		
27 16 19 00-0001 Cross Connect Wire (27 16 19)		
Note: Up to 20' length.		
27 16 19 00-0002 EA 2-Pair Cross Connect Wire.....	14.66	
27 16 19 00-0003 EA 3-Pair Cross Connect Wire.....	19.62	
27 16 19 00-0004 EA 4-Pair Cross Connect Wire.....	24.55	
27 16 19 00-0005 Fiber Optic Patch Cords (27 16 19)		
27 16 19 00-0006 Simplex Fiber Optic Patch Cables (27 16 19 00-0005)		
27 16 19 00-0007 Singlemode, Simplex Fiber Optic Patch Cables (27 16 19 00-0006)		
27 16 19 00-0008 EA ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	33.11	
For Each Additional Meter In Length, Add		0.26
27 16 19 00-0009 EA ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	27.32	
For Each Additional Meter In Length, Add		0.26
27 16 19 00-0010 EA ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	34.84	
For Each Additional Meter In Length, Add		0.26
27 16 19 00-0011 EA SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	28.64	
For Each Additional Meter In Length, Add		0.26
27 16 19 00-0012 EA SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	32.87	
For Each Additional Meter In Length, Add		0.26
27 16 19 00-0013 EA LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	32.40	
For Each Additional Meter In Length, Add		0.26



Communications			27
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Communications Connecting Cords, Devices, And Adapters			27 16

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0014 Duplex Fiber Optic Patch Cables (27 16 19 00-0005)		
27 16 19 00-0015 Singlemode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)		
27 16 19 00-0016 EA ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	56.37 0.51	
27 16 19 00-0017 EA ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	54.74 0.51	
27 16 19 00-0018 EA ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	60.53 0.51	
27 16 19 00-0019 EA SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	47.45 0.51	
27 16 19 00-0020 EA SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	55.89 0.51	
27 16 19 00-0021 EA LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	54.96 0.51	
27 16 19 00-0022 Multimode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)		
27 16 19 00-0023 EA ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	42.99 1.48	
27 16 19 00-0024 EA ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	46.77 1.48	
27 16 19 00-0025 EA ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	47.16 1.48	
27 16 19 00-0026 EA ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	48.38 1.48	
27 16 19 00-0027 EA SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	43.15 1.48	
27 16 19 00-0028 EA SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	48.59 1.48	
27 16 19 00-0029 EA SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	56.79 1.48	
27 16 19 00-0030 EA MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	39.67 1.48	
27 16 19 00-0031 EA LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable For Each Additional Meter In Length, Add	47.88 1.48	
27 16 19 00-0032 Fiber Optic Cable Pig Tail (27 16 19)		
27 16 19 00-0033 EA Simplex Fiber Optic Cable Pig Tail	59.01	32.02
27 16 19 00-0034 EA Duplex Fiber Optic Cable Pig Tail	72.74	32.02
27 16 19 00-0035 Ethernet Patch Cords (27 16 19)		
27 16 19 00-0036 EA 3' Category 5E Patch Cables With Boots.....	18.25	
27 16 19 00-0037 EA 5' Category 5E Patch Cables With Boots.....	19.38	
27 16 19 00-0038 EA 7' Category 5E Patch Cables With Boots.....	20.50	
27 16 19 00-0039 EA 10' Category 5E Patch Cables With Boots.....	26.76	
27 16 19 00-0040 EA 15' Category 5E Patch Cables With Boots.....	29.58	
27 16 19 00-0041 EA 25' Category 5E Patch Cables With Boots.....	35.22	
27 16 19 00-0042 EA 3' Category 6 Patch Cables With Boots.....	19.84	
27 16 19 00-0043 EA 5' Category 6 Patch Cables With Boots.....	21.29	
27 16 19 00-0044 EA 7' Category 6 Patch Cables With Boots.....	22.74	
27 16 19 00-0045 EA 10' Category 6 Patch Cables With Boots.....	29.48	
27 16 19 00-0046 EA 15' Category 6 Patch Cables With Boots.....	33.10	
27 16 19 00-0047 EA 25' Category 6 Patch Cables With Boots.....	40.35	
27 16 19 00-0048 EA 50' Category 6 Patch Cables With Boots.....	58.45	
27 16 19 00-0049 EA 100' Category 6 Patch Cables With Boots.....	99.26	
27 16 19 00-0050 EA 3' Category 6A Patch Cables With Boots.....	25.90	
27 16 19 00-0051 EA 5' Category 6A Patch Cables With Boots.....	28.73	
27 16 19 00-0052 EA 7' Category 6A Patch Cables With Boots.....	31.57	
27 16 19 00-0053 EA 10' Category 6A Patch Cables With Boots.....	40.40	
27 16 19 00-0054 EA 15' Category 6A Patch Cables With Boots.....	47.49	
27 16 19 00-0055 EA 25' Category 6A Patch Cables With Boots.....	61.67	
27 16 19 00-0056 EA 50' Category 6A Patch Cables With Boots.....	97.13	
27 16 19 00-0057 EA 100' Category 6A Patch Cables With Boots.....	172.65	

27 20 Data Communications (27)

27 21 Data Communications Network Equipment (27 20)

Note: Includes testing of new devices and certification.

27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems (27 21)

27 21 16 00-0001 Fiber Optic Modems (27 21 16)

27 21 16 00-0002 EA Fiber Optic Modems, Range 6.2 Miles.....	1,283.69	182.99
27 21 16 00-0003 EA Fiber Optic Modem, Range 3.1 Miles, 12 Channel	2,430.83	182.99

27 21 16 00-0004 Ethernet Hubs and Switches (27 21 16)

27 Communications**27 20 Data Communications****27 21 Data Communications Network Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0005	EA	16 Port Managed Hub With Fiberport And Standard Management.....	2,327.29	137.45
27 21 16 00-0006	EA	16 Port Unmanaged Hub	402.64	91.63
27 21 16 00-0007		Network Equipment (27 21 16)		
27 21 16 00-0008		Communications Entrance Protection (27 21 16 00-0007)		
27 21 16 00-0009	EA	100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C).....	677.91	68.72
		Note: Excludes terminations.		
27 21 16 00-0010	EA	Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S)	8.23	0.91
27 21 16 00-0011		Communications Cabinets, Racks, Frames And Enclosures (27 21 16 00-0007)		
27 21 16 00-0012	EA	19" Width x 24" Depth x 36" Height, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736).....	816.30	68.72
27 21 16 00-0013	EA	10 Outlet, 125 Volt, 20 Amp Telecommunications Cabinet Power Strip (Chatsworth 13239-757)	717.85	4.59
27 21 16 00-0014	EA	Fan Kit For Telecommunications Cabinet (Chatsworth 12804-701).....	131.96	18.32
27 21 16 00-0015		Communications Termination Blocks And Patch Panels (27 21 16 00-0007)		
27 21 16 00-0016		Communications Termination Blocks (27 21 16 00-0015)		
27 21 16 00-0017	EA	4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810).....	256.29	13.73
27 21 16 00-0018	EA	5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802).....	238.57	13.73
27 21 16 00-0019	EA	4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869).....	570.75	13.73
27 21 16 00-0020	EA	5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851).....	530.89	13.73
27 21 16 00-0021	EA	110 Connector System Mounting Brackets (CommScope 107535593).....	80.89	13.73
27 21 16 00-0022	EA	110 Connector System Mounting Brackets (CommScope 107535585).....	87.33	13.73
27 21 16 00-0023	EA	110 Connector System Mounting Brackets (CommScope 107098816).....	99.38	13.73
27 21 16 00-0024		Communications Copper Patch Panels (27 21 16 00-0015)		
		Note: Excludes cabinet and terminations.		
27 21 16 00-0025	EA	24 Port, Category 5E Patch Panel (CommScope 108208919)	254.14	29.78
27 21 16 00-0026	EA	48 Port, Category 5E Patch Panel (CommScope 108208935)	462.48	36.65
27 21 16 00-0027	EA	24 Port, Category 6 Patch Panel (CommScope 760062372).....	375.54	29.78
27 21 16 00-0028	EA	48 Port, Category 6 Patch Panel (CommScope 760062380).....	700.22	36.65
27 21 16 00-0029		Communications Optical Fiber Patch Panels (27 21 16 00-0015)		
27 21 16 00-0030		Closet Connector Housings (27 21 16 00-0029)		
27 21 16 00-0031	EA	48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U).....	290.92	18.32
		Note: Accepts up to 2 closet connector housing panels. Excludes panels.		
27 21 16 00-0032	EA	96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U).....	339.00	18.32
		Note: Accepts up to 4 closet connector housing panels. Excludes panels.		
27 21 16 00-0033	EA	288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U).....	421.92	18.32
		Note: Accepts up to 12 closet connector housing panels. Excludes panels.		
27 21 16 00-0034	EA	SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91).....	91.22	9.16
27 21 16 00-0035	EA	SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59)	123.83	9.16
27 21 16 00-0036	EA	SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56)	102.73	9.16
27 21 16 00-0037	EA	SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C).....	134.37	9.16
27 21 16 00-0038		Communications Cable Management (27 21 16 00-0007)		
27 21 16 00-0039		Horizontal Communication Cable Management (27 21 16 00-0038)		
27 21 16 00-0040	EA	1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE).....	97.56	18.32
27 21 16 00-0041	EA	3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E).....	100.71	18.32
27 21 16 00-0042		Vertical Communication Cable Management (27 21 16 00-0038)		
27 21 16 00-0043	EA	6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703)	570.73	45.82
27 21 16 00-0044	EA	19" Width x 84" Height, Universal Rack (Chatsworth 48353-703).....	591.17	45.82
27 21 16 00-0045	EA	23" Width x 84" Height, Universal Rack (Chatsworth 48383-703).....	637.14	45.82
27 21 16 00-0046		Communications Patch Cords, Station Cords, And Cross Connect Wire (27 21 16 00-0007)		
27 21 16 00-0047		Premise Cross-Connect Wire (27 21 16 00-0046)		
27 21 16 00-0048	LF	1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973)	0.94	0.46
27 21 16 00-0049		Pathways For Communications Systems (27 21 16 00-0007)		
27 21 16 00-0050		Conduits And Backboxes For Communication Systems (27 21 16 00-0049)		
27 21 16 00-0051		Flexible Conduit For Communication Systems (27 21 16 00-0050)		
27 21 16 00-0052	CLF	1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlson DF4X1C)	375.55	164.69
27 21 16 00-0053	CLF	1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlson CF4X1C)	540.64	164.69



Communications			27
Data Communications			27 20
Data Communications Network Equipment			27 21

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0054 Tube Cables For Communication Systems (27 21 16 00-0050)		
27 21 16 00-0055 Outdoor/All-Dielectric Tube Cables (27 21 16 00-0054)		
27 21 16 00-0056 CLF Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX)	321.94	109.79
27 21 16 00-0057 CLF Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TOX)	481.26	137.25
27 21 16 00-0058 CLF Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX)	802.23	164.69
27 21 16 00-0059 Indoor/Riser Rated Tube Cables (27 21 16 00-0054)		
27 21 16 00-0060 CLF Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX)	370.04	109.79
27 21 16 00-0061 CLF Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX)	453.04	123.52
27 21 16 00-0062 CLF Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX)	514.66	137.25
27 21 16 00-0063 CLF Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX)	953.21	164.69
27 21 16 00-0064 Indoor/Plenum Rated Tube Cables (27 21 16 00-0054)		
27 21 16 00-0065 CLF Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX)	269.83	109.79
27 21 16 00-0066 CLF Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2)	392.75	109.79
27 21 16 00-0067 CLF Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2)	608.02	123.52
27 21 16 00-0068 CLF Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2)	887.42	137.25
27 21 16 00-0069 CLF Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2)	2,776.93	164.69
27 21 16 00-0070 Unjacketed Single Tube Cables (27 21 16 00-0054)		
27 21 16 00-0071 CLF Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX)	232.42	109.79
27 21 16 00-0072 Multimode Fiber Bundles (27 21 16 00-0054) Note: Includes optical fiber cables.		
27 21 16 00-0073 CLF 2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6)	100.33	32.94
27 21 16 00-0074 CLF 4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6)	152.43	32.94
27 21 16 00-0075 CLF 6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6)	208.55	32.94
27 21 16 00-0076 CLF 12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6)	379.56	32.94
27 21 16 00-0077 CLF 18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6)	550.38	38.43
27 21 16 00-0078 CLF 24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6)	721.39	38.43
27 21 16 00-0079 Singlemode Fiber Bundles (27 21 16 00-0054) Note: Includes optical fiber cables.		
27 21 16 00-0080 CLF 2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX)	89.64	32.94
27 21 16 00-0081 CLF 4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX)	112.35	32.94
27 21 16 00-0082 CLF 6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX)	131.06	32.94
27 21 16 00-0083 CLF 12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX)	167.13	32.94
27 21 16 00-0084 CLF 18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX)	256.44	38.43
27 21 16 00-0085 CLF 24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX)	337.94	38.43
27 21 16 00-0086 Tube Distribution Cabinets (27 21 16 00-0054)		
27 21 16 00-0087 EA Modular Tube Distribution Cabinet (Sumitomo DE06MDU)	195.53	45.82
Note: Up to six 7-tube cables or two 19-tube cables.		
27 21 16 00-0088 Modular Fiber Termination Cabinets (27 21 16 00-0054)		
27 21 16 00-0089 EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM)	247.92	45.82
27 21 16 00-0090 EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM)	264.49	45.82
27 21 16 00-0091 Tube Distribution Accessories (27 21 16 00-0054)		
27 21 16 00-0092 EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA)	11.02	4.59
27 21 16 00-0093 EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2)	12.18	4.59
27 21 16 00-0094 EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB)	15.17	4.59
27 21 16 00-0095 Communications Optical Fiber Cabling (27 21 16 00-0007)		
27 21 16 00-0096 Communications Optical Fiber Cable Splicing And Terminations (27 21 16 00-0095)		
27 21 16 00-0097 Field Installed Fiber Connectors (27 21 16 00-0096)		
27 21 16 00-0098 EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42)	32.56	6.87
27 21 16 00-0099 EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41)	28.73	6.87
27 21 16 00-0100 Buffer Tube Fan-Out Kits (27 21 16 00-0096)		
27 21 16 00-0101 Buffer Tube Breakout Kits (Sumitomo) (27 21 16 00-0100) Note: Includes 900 micron tubing.		
27 21 16 00-0102 EA 2-Fiber Breakout Kit (Sumitomo FTFLD02)	199.02	91.50
27 21 16 00-0103 EA 4-Fiber Breakout Kit (Sumitomo FTFLD04)	203.03	91.50
27 21 16 00-0104 EA 6-Fiber Breakout Kit (Sumitomo FTFLD06)	206.57	91.50
27 21 16 00-0105 EA 12-Fiber Breakout Kit (Sumitomo FTFLD12)	217.57	91.50

27 Communications**27 20 Data Communications****27 21 Data Communications Network Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0106 EA 18-Fiber Breakout Kit (Sumitomo FTFLD18)	232.61	91.50
27 21 16 00-0107 EA 24-Fiber Breakout Kit (Sumitomo FTFLD24)	243.78	91.50
27 21 16 00-0108 Buffer Tube Fan-Out Kits (Corning) (27 21 16 00-0100)		
27 21 16 00-0109 EA 12 Fiber, 25" Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12)	200.88	91.50
27 21 16 00-0110 EA 12 Fiber, 25" Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12)	240.57	91.50
27 21 16 00-0111 Communications Copper Cabling (27 21 16 00-0007)		
27 21 16 00-0112 Copper Communications Cable Splicing And Terminations (27 21 16 00-0111)		
27 21 16 00-0113 Copper Communications Cable Splice Cases (27 21 16 00-0112)		
27 21 16 00-0114 EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000626)	768.75	182.99
27 21 16 00-0115 EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000630)	883.86	182.99
27 21 16 00-0116 EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219)	1,266.38	182.99
27 21 16 00-0117 Modular Splice Connectors (27 21 16 00-0112)		
27 21 16 00-0118 EA 25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25)	97.08	45.75
27 21 16 00-0119 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25)	95.84	45.75
27 21 16 00-0120 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25)	97.11	45.75
27 21 16 00-0121 EA 25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25)	96.94	45.75
27 22 Data Communications Hardware (27 20)		
27 22 19 Data Communications Servers (27 22)		
27 22 19 00-0001 Network Communications Frames And Enclosures (27 22 19)		
27 22 19 00-0002 EA Communications Equipment Enclosure Note: APX Enclosures, Inc. part number TCDD727236 or an approved equivalent. UL listed, 72"Hx72"Wx36"D, .0125 5052 aluminum construction, polyester powder finish, ANSI 61 grey out/white in, dual swing rack 19"/23", standard EIA spacing, tapped 12-24 adjustable channels on side, thermostat kit, fluorescent light kit, 3PT, latch on main door with pad lock provisions, plywood back panels, and insulation thru-out) with a 12,000 BTU air conditioning unit housed in a stainless steel enclosure.	12,020.63	274.90
27 22 19 00-0003 EA Wall Mounted Equipment Cabinet..... Note: Mid-Atlantic DWR-24-22 PD.	827.74	91.63
27 22 19 00-0004 EA APX 2 Bay Communications Equipment Enclosure, 72" High x 72" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel Note: UI 508A Listed Enclosure, NEMA 4x (Two Bay) APX Double Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (1) Door with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on Both Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Lifting Ears, Door Gasket Seals, Removable Center Post, Continuous Sthle Hinges/Hardware, (2) Fluorescent Light Fixtures with door activated switches, (12,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.	6,469.38	
27 22 19 00-0005 APX 3 Bay Communications Equipment Enclosure, 72" High x 108" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel Note: UI 508A Listed Enclosure, NEMA 4x (Three Bay) APX Three Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (3) Doors with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on all three Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Two 33 RU Racks positioned inside left and right bays, Lifting Ears Door Gasket Seals, (2) Fixed Center Posts, Continuous Sthle Hinges/Hardware, (3) Fluorescent Light Fixtures with door activated switches, (19,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.	21,913.20	
27 24 Data Communications Peripheral Data Equipment (27 20)		
27 24 33 Power Supplies, UPS And Battery Backup (27 24)		
27 24 33 00-0001 Network Equipment (27 24 33)		
27 24 33 00-0002 EA 19" Rack Mountable 110-24T Ethernet Switch Note: 24 x 10/100Base-TX LAN with SFP (miniGBic) port, Nortel Networks Limited 110-24T Managed Business Ethernet Switch - 24 x 10/100Base-TX LAN model #NT5S01AEE5. Includes testing.	363.77	30.47
27 24 33 00-0003 EA 19" Rack Mountable Station Access Router Note: Nortel Network part number SR2101031E5. Includes testing.	1,868.51	160.11
27 24 33 00-0004 EA 19" Rack Mount LCD Monitor Note: Nortel Network part number SR2101031E5. Includes testing.	893.67	73.20
27 24 33 00-0005 EA 1000VA UPS (Uninterruptible Power Supply) Note: APC SUA1000RM2U. Includes testing.	854.24	83.64
27 24 33 00-0006 EA 1000VA UPS (Uninterruptible Power Supply) Note: APC BR1000. Includes testing.	370.89	83.64
27 24 33 00-0007 EA 1200VA UPS (Uninterruptible Power Supply) Note: APC BR1200. Includes testing.	379.62	83.64



Communications			27
Voice Communications			27 30
Data Communications Peripheral Data Equipment			27 24

27

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 30 Voice Communications ⁽²⁷⁾**27 31 Voice Communications Switching and Routing Equipment** ^(27 30)

Note: Includes testing of new devices and certification.

27 31 13 PBX/Key Systems ^(27 31)**27 31 13 00-0001 Interior PBX Telephone System** ^(27 31 13)

Note: Includes telephone instruments cabling and solid state switching.

27 31 13 00-0002 Interior PBX Telephone System ^(27 31 13 00-0001)

Note: Cost is for each line up to 1000 lines.

27 31 13 00-0003	EA	1 Line PBX Connection, Cost Per Each Line Up To 1,000	1,258.08	477.29

27 31 13 00-0004 Additional Telephones Less Solid State Switching (PBX) ^(27 31 13 00-0001)

27 31 13 00-0005	EA	Add For Each Additional PBX Phone Line Less Solid State Switching	377.82	37.52

27 31 13 00-0006 Telephones ^(27 31 13 00-0001)

27 31 13 00-0007	EA	Telephones, Desk Type Intercommunication Equipment	157.13	35.68

27 31 13 00-0008	EA	Telephones, Wall Type Intercommunication Equipment	181.19	47.58

27 32 Voice Communications Terminal Equipment ^(27 30)

Note: Includes testing of new devices and certification.

27 32 19 Interior Telephone System ^(27 32)**27 32 19 00-0001 Components** ^(27 32 19)

27 32 19 00-0002	EA	Solid State Exchange Unit With Power Supply	4,583.32	836.09
27 32 19 00-0003	EA	Dial Telephone - Handset In Cabinet	537.69	68.35
27 32 19 00-0004	EA	Elevator Cab Telephone With Trailer Cable	288.13	73.29
27 32 19 00-0005	EA	Loud Ring Bell, 6"	230.20	67.98
27 32 19 00-0006	EA	Audio/Visual Indicator	284.42	64.05
27 32 19 00-0007	EA	Administrative Telephone With Digital Display	292.62	57.46
27 32 19 00-0008	EA	Processing Unit For 16 Station System	1,522.63	468.74
27 32 19 00-0009	EA	Handset For 16 Station System	208.74	46.66
27 32 19 00-0010	EA	Handset In Cabinet, For 16 Station System	282.66	62.95
27 32 19 00-0011	MLF	20 Conductor Unshielded Cable, #22	2,121.18	1,008.94
27 32 19 00-0012	EA	Power Supply For 16 Station System	288.49	124.52
27 32 19 00-0013	EA	Intercom Terminal Board	266.87	140.17
27 32 19 00-0014	EA	Power Supply For Five Station System, 24 Volt DC	297.94	124.52
27 32 19 00-0015	EA	Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick	141.59	51.19
27 32 19 00-0016	EA	Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep	424.09	112.67
27 32 19 00-0017	EA	Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep	498.86	128.07
27 32 19 00-0018	EA	Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep	603.57	151.57
27 32 19 00-0019	EA	Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep	706.41	163.86
27 32 19 00-0020	EA	Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep	1,074.36	186.45
27 32 19 00-0021	EA	Ring Rung 3"	9.51	5.10
27 32 19 00-0022	EA	G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID	23.13	9.06
27 32 19 00-0023	EA	G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing	43.02	18.58

27 32 19 00-0024 Accessories ^(27 32 19)

27 32 19 00-0025	EA	Blank Telephone Receptacle, Exposed Devices - Complete	10.52	4.94
27 32 19 00-0026	EA	4-Pin Telephone Receptacle, Exposed Devices - Complete	24.52	19.03
27 32 19 00-0027	EA	Level 5, RJ-45 Jack, Dual Flush Mounted - Complete	64.48	20.91
27 32 19 00-0028	EA	Level 5, RJ-45 Jack, Wall Mount - Complete	59.45	20.91
27 32 19 00-0029	EA	Terminating Strips, Inside	121.39	41.83
27 32 19 00-0030	EA	Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete	48.82	21.50
27 32 19 00-0031	EA	Ready Access Closure 3 To 25 Pair	146.85	50.41
27 32 19 00-0032	EA	Ready Access Closure 25 To 100 Pair	175.46	56.36
27 32 19 00-0033	EA	Termination Block With Bracket 25 Pair	58.55	16.92
27 32 19 00-0034	EA	RJ-11 Telephone Receptacle, Concealed Devices - Complete	47.82	21.22
27 32 19 00-0035	EA	Interior Protected Terminal 25 Pair	768.41	122.24
27 32 19 00-0036	EA	Interior Protected Terminal 50 Pair	940.93	124.16
27 32 19 00-0037	EA	Pedestal 6" x 6" x 50" 3 To 100 Pair	302.89	50.87
27 32 19 00-0038	EA	Pedestal 8" x 8" x 50" 100 To 300 Pair	314.97	50.87
27 32 19 00-0039	EA	Pedestal 10" x 10" x 43" 300 To 600 Pair	418.95	65.05
27 32 19 00-0040	EA	Pedestal 10" x 16" x 439 600 Pair	894.81	117.21
27 32 19 00-0041	EA	Entrance Protector Terminal 100 Pair	1,279.16	133.77
27 32 19 00-0042	EA	Gas Protection Module	16.28	4.58
27 32 19 00-0043	EA	Terminating Boxes, Outside With 3 Element Protectors, Per Pair	33.54	4.18

27 32 26 Ring-Down Emergency Telephones ^(27 32)

27 Communications**27 30 Voice Communications****27 32 Voice Communications Terminal Equipment**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

27 32 26 00-0001	Emergency Telephone (27 32 26)		
	Note: Standard features include: CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70w area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8'-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.		
27 32 26 00-0002	EA Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s)	6,799.34	375.56
	Note: Includes IA4100 FP1 analog speakerphone with single red "Push For Help" button, "Push For Help" bezel, hard wire phone line, passive vent at top, 24V AC, and standard color.		
27 32 26 00-0003	EA Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d)	7,127.80	375.56
	Note: Includes IA4100 FP1 analog speakerphone with single red "Push For Help" button, "Push For Help" bezel, blank stainless steel plate second opening, hard wire phone line, passive vent at top, 24V AC, and standard color.		
27 32 26 00-0004	EA Analog Speakerphone With Black "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2)	109.49	
27 32 26 00-0005	EA Analog Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2-K)	164.23	
27 32 26 00-0006	EA IP Speakerphone With Single Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP1)	410.58	
27 32 26 00-0007	EA IP Speakerphone With Back "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2)	558.39	
27 32 26 00-0008	EA IP Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2-K)	613.14	
27 32 26 00-0009	EA EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option	10.95	
27 32 26 00-0010	EA EMERGENCY/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option	10.95	
27 32 26 00-0011	EA Directory, Second Opening Code Blue Option	98.54	
27 32 26 00-0012	EA Camera Enclosure With Color IP Camera, Second Opening Code Blue Option	1,040.14	
27 32 26 00-0013	EA HID Card Reader, Second Opening Code Blue Option	481.75	
27 32 26 00-0014	EA HID Card Reader And Color IP Camera, Second Opening Code Blue Option	1,560.22	
27 32 26 00-0015	EA IP Wireless Communication Code Blue Option	3,279.19	
	Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.		
27 32 26 00-0016	EA Active Venting Code Blue Option	175.18	
27 32 26 00-0017	EA Night Charge Power Code Blue Option	1,527.37	
	Note: Requires 120V AC external power supplied to Code Blue unit.		
27 32 26 00-0018	EA Power Transformer Kit, Alternate Incoming Power Code Blue Option	383.21	
27 32 26 00-0019	EA Overhead Camera Mount Code Blue Option	870.44	
	Note: Excludes camera.		
27 32 26 00-0020	EA Custom Color For Overhead Camera Mount Code Blue Option	38.32	
27 32 26 00-0021	City Police Call System (27 32 26)		
27 32 26 00-0022	Components (27 32 26 00-0021)		
27 32 26 00-0023	EA City Police Call System	536.88	106.69
27 32 26 00-0024	EA Concrete Foundation For Police Department Telephone Post	503.26	154.53

27 40 Audio-Video Communications (27)**27 41 Audio-Video Systems** (27 40)**27 41 16 Integrated Audio-Video Systems and Equipment** (27 41)

Note: Includes testing of new devices and certification.

27 41 16 00-0001	Television Distribution System (27 41 16)		
	See CSI section 26 05 13 00-0001 for basic wiring, 26 05 19 16-0012 for basic wiring.		
27 41 16 00-0002	Television Support System (27 41 16 00-0001)		
27 41 16 00-0003	EA Ceiling Mounted Television Support, 19" To 20"	324.05	102.63
27 41 16 00-0004	EA Ceiling Mounted Television Support, 19" To 20" With Rack	409.75	114.54
27 41 16 00-0005	EA Ceiling Mounted Television Support, 25" To 27"	336.21	102.63
27 41 16 00-0006	EA Ceiling Mounted Television Support, 25" To 27" With Rack	421.91	114.54
27 41 16 00-0007	EA Wall Mounted Television Support, 13"	256.06	82.47
27 41 16 00-0008	EA Wall Mounted Television Support, 13" With Rack	341.74	91.63
27 41 16 00-0009	EA Wall Mounted Television Support, 19" To 20"	272.01	82.47
27 41 16 00-0010	EA Wall Mounted Television Support, 19" To 20" With Rack	357.69	91.63
27 41 16 00-0011	EA Wall Mounted Television Support, 25" To 27"	287.96	82.47
27 41 16 00-0012	EA Wall Mounted Television Support, 25" To 27" With Rack	373.65	91.63
27 41 16 00-0013	Distribution System (27 41 16 00-0001)		
	See CSI section 26 05 13 00-0001 for wire and cabling.		
27 41 16 00-0014	TV Distribution Rack (27 41 16 00-0013)		
27 41 16 00-0015	EA Steel Rack Cabinet With Shelves	1,031.94	168.26
27 41 16 00-0016	EA Switch And Pilot Light	178.87	74.75
27 41 16 00-0017	LF Surface Raceway With Outlets	21.87	10.16
27 41 16 00-0018	EA Service Label	26.68	14.00
27 41 16 00-0019	Head End Amplifier (27 41 16 00-0013)		
27 41 16 00-0020	EA Head End Amplifier	688.39	111.99



Communications			27
Audio-Video Communications			27 40
Audio-Video Systems			27 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 41 16 00-0021 UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)		
27 41 16 00-0022 EA UHF In-Line Booster	419.61	111.99
27 41 16 00-0023 Preamplifiers (27 41 16 00-0013)		
27 41 16 00-0024 EA VHF Preamplifier	514.25	111.99
27 41 16 00-0025 EA UHF Preamplifier	419.60	111.99
27 41 16 00-0026 Power Supplies (27 41 16 00-0013)		
27 41 16 00-0027 EA Common Power Supply	734.65	160.02
27 41 16 00-0028 Line Splitter And Mixer (27 41 16 00-0013)		
27 41 16 00-0029 EA Line Splitter.....	72.39	37.33
27 41 16 00-0030 EA Two-Way Splitter	79.92	37.33
27 41 16 00-0031 EA Frequency Filter.....	167.27	56.08
27 41 16 00-0032 EA Line Splitter And Mixer.....	220.24	82.35
27 41 16 00-0033 Power Line Filters (27 41 16 00-0013)		
27 41 16 00-0034 EA 120-Volt Power Supply Line Filter.....	311.37	74.75
27 41 16 00-0035 Wall Box And Receiver Outlets (27 41 16 00-0013)		
27 41 16 00-0036 EA Wall Box With Lockable Cover, Excluding Outlet Plug	167.27	56.08
27 41 16 00-0037 EA TV Receiver Outlet Plug	79.92	37.33
27 41 16 00-0038 EA TV Camera Outlet Plug.....	79.92	37.33
27 41 16 00-0039 EA Audio Outlet Plug.....	70.48	37.33
27 41 16 00-0040 EA 12 Ft RG 6U Cable With G-59 And TV Set Fittings	145.74	74.75
27 41 16 00-0041 EA Male Plug PL-259	79.92	37.33
27 41 16 00-0042 EA Wall Box And Receiver Outlet Television Outlets	97.78	39.16
27 41 16 00-0043 Metal And Electric Shop Antenna Systems (27 41 16)		
27 41 16 00-0044 Antenna (27 41 16 00-0043)		
27 41 16 00-0045 EA Amateur Radio Antenna	653.54	137.25
27 41 16 00-0046 EA Multi-Band Radio Antenna.....	517.96	137.25
27 41 16 00-0047 Receptacles (27 41 16 00-0043)		
27 41 16 00-0048 EA Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter	157.82	56.08
27 41 16 00-0049 EA Multi-Band Radio Antenna System Receptacle With Mating Plugs	157.82	56.08
27 50 Distributed Communications And Monitoring Systems (27)		
27 51 Distributed Audio-Video Communications Systems (27 50)		
27 51 23 Intercommunications And Program Systems (27 51)		
27 51 23 20 Commercial Intercommunications And Program Systems (27 51 23)		
27 51 23 20-0001 Intercom (27 51 23 20)		
27 51 23 20-0002 EA Aiphone Intercom, Master.....	1,186.46	
27 51 23 20-0003 EA Aiphone Intercom, Remotes	439.76	
27 51 33 Sound Reinforcement (27 51)		
Note: Includes testing of new devices and certification.		
27 51 33 00-0001 Amplifiers (27 51 33)		
27 51 33 00-0002 EA 10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10)	355.05	91.63
27 51 33 00-0003 EA 35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35)	483.82	91.63
27 51 33 00-0004 EA 60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60)	566.48	91.63
27 51 33 00-0005 EA 100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100)	625.45	91.63
27 51 33 00-0006 EA 150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150).....	768.35	91.63
27 51 33 00-0007 EA 250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250).....	982.04	91.63
27 51 33 00-0008 EA Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK)	39.41	4.59
27 51 33 00-0009 Speakers (27 51 33)		
27 51 33 00-0010 EA 8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W)	151.36	24.52
27 51 33 00-0011 EA 8" Steel Baffle (Atlas Sound 51-8)	44.40	4.58
27 51 33 00-0012 EA T-Bar Support (Atlas Sound EZ95-8).....	48.90	4.58
27 51 33 00-0013 EA 8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408)	73.00	4.58
27 51 33 00-0014 EA Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA)	72.65	8.24

27 Communications**27 50 Distributed Communications And Monitoring Systems****27 51 Distributed Audio-Video Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 33 00-0015 Accessories (27 51 33)		
27 51 33 00-0016 EA Microphone And Stand For Audio/Video System (Bogen MBS-1000A)	186.44	11.45
27 51 33 00-0017 EA 5 Disk CD Player For Audio/Video System (Bogen DCM290-P)	411.87	11.45
27 51 33 00-0018 EA Weather Proof Horn For Audio/Video System (Bogen SPT5A)	114.24	22.91
27 51 33 00-0019 EA Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A)	201.93	22.91
27 51 33 00-0020 EA Headset Microphone For Audio/Video System (Audio Technica Pro8Hex)	150.65	22.88
27 51 33 00-0021 EA Microphone Jack For Audio/Video System	75.81	22.91
27 51 33 00-0022 EA Terminal Cabinet For Audio/Video System (Atlas 121-18)	590.52	91.63
27 51 33 00-0023 EA Volume Control For Audio/Video System (Bogen AT10A)	72.97	22.91
27 51 33 00-0024 Remove And Reinstall Speakers (27 51 33)		
Note: Includes storage, cleaning and supply materials.		
27 51 33 00-0025 EA Removal And Reinstallation Of Ceiling Mounted Speaker	128.10	
27 53 Distributed Systems (27 50)		
27 53 13 Clock Systems (27 53)		
27 53 13 00-0001 Wired Self-Corrective Clock Systems (27 53 13)		
27 53 13 00-0002 Wired Self-Corrective Clocks (27 53 13 00-0001)		
27 53 13 00-0003 Analog, Wired Self-Corrective Clocks (Telecor) (27 53 13 00-0002)		
27 53 13 00-0004 24 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 00-0003)		
27 53 13 00-0005 EA 12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	167.91	22.88
For >50 To 100, Deduct	-11.74	
For >100, Deduct	-16.62	
27 53 13 00-0006 EA 12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount	385.95	22.88
For >50 To 100, Deduct	-20.46	
For >100, Deduct	-34.07	
27 53 13 00-0007 EA 16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	208.12	22.88
For >50 To 100, Deduct	-14.97	
For >100, Deduct	-21.46	
27 53 13 00-0008 EA 16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount	506.57	22.88
For >50 To 100, Deduct	-52.93	
For >100, Deduct	-71.36	
27 53 13 00-0009 120 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 00-0003)		
27 53 13 00-0010 EA 12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	167.91	22.88
For >50 To 100, Deduct	-11.74	
For >100, Deduct	-16.62	
27 53 13 00-0011 EA 12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount	385.95	22.88
For >50 To 100, Deduct	-20.46	
For >100, Deduct	-34.07	
27 53 13 00-0012 EA 16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	208.12	22.88
For >50 To 100, Deduct	-14.97	
For >100, Deduct	-21.46	
27 53 13 00-0013 EA 16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount	506.57	22.88
For >50 To 100, Deduct	-52.93	
For >100, Deduct	-71.36	
27 53 13 00-0014 Accessories For Analog Wired Self-Corrective Clocks (27 53 13 00-0003)		
27 53 13 00-0015 EA Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks	134.99	11.43
27 53 13 00-0016 EA Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks	38.34	11.43
27 53 13 00-0017 EA Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks	47.24	11.43
27 53 13 00-0018 EA Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks	56.52	11.43
27 53 13 00-0019 EA Combination Back Box For Speaker And Clock	96.63	18.30
27 53 13 00-0020 Digital, Wired Self-Corrective Clocks (Telecor) (27 53 13 00-0002)		
27 53 13 00-0021 24 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 00-0020)		
27 53 13 00-0022 EA 2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount	205.03	22.88
For Surface Mount, Add	31.86	
For >50 To 100, Deduct	-9.56	
For >100, Deduct	-15.93	
27 53 13 00-0023 EA 4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount	310.18	22.88
For Surface Mount, Add	52.89	
For >50 To 100, Deduct	-15.87	
For >100, Deduct	-26.44	
27 53 13 00-0024 120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 00-0020)		



Communications			27
Distributed Communications And Monitoring Systems			27 50
Distributed Systems			27 53

27

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 00-0025	EA		2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	205.03	22.88
			For Surface Mount, Add	31.86	
			For >50 To 100, Deduct	-9.56	
			For >100, Deduct	-15.93	
27 53 13 00-0026	EA		4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	310.18	22.88
			For Surface Mount, Add	52.89	
			For >50 To 100, Deduct	-15.87	
			For >100, Deduct	-26.44	
27 53 13 00-0027 Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks					
			(27 53 13 00-0020)		
27 53 13 00-0028	EA		2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	176.81	22.88
			For >50 To 100, Deduct	-7.86	
			For >100, Deduct	-13.11	
27 53 13 00-0029	EA		4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	284.67	22.88
			For >50 To 100, Deduct	-14.34	
			For >100, Deduct	-23.89	
27 53 13 00-0030 Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks					
			(27 53 13 00-0020)		
27 53 13 00-0031	EA		2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	176.81	22.88
			For >50 To 100, Deduct	-7.86	
			For >100, Deduct	-13.11	
27 53 13 00-0032	EA		4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	284.67	22.88
			For >50 To 100, Deduct	-14.34	
			For >100, Deduct	-23.89	
27 53 13 00-0033 Accessories For Digital Wired Self-Corrective Clocks (27 53 13 00-0020)					
27 53 13 00-0034	EA		Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks.....	182.16	11.43
27 53 13 00-0035	EA		2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	47.62	11.43
27 53 13 00-0036	EA		4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	63.86	11.43
27 53 13 00-0037	EA		Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks	159.73	11.43
27 53 13 00-0038	EA		4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks.....	48.79	11.43
27 53 13 00-0039 Wired Self-Corrective Master Clocks (27 53 13 00-0001)					
27 53 13 00-0040 Wired Self-Corrective Master Clocks (27 53 13 00-0039)					
27 53 13 00-0041	EA		24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24).....	1,909.27	182.99
27 53 13 00-0042	EA		120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120).....	2,025.25	182.99
27 53 13 00-0043 Accessories For Wired Self-Corrective Master Clocks (27 53 13 00-0039)					
27 53 13 00-0044	EA		5 Amp Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405).....	208.64	45.75
27 53 13 00-0045	EA		10 Amp Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406).....	232.99	45.75
27 53 13 00-0046 Other Clock And Program Systems (27 53 13)					
27 53 13 00-0047	EA		4 Circuit Master Clock And Signal Control (Lathem LTR4-512).....	1,137.99	91.50
27 53 13 00-0048	EA		8 Circuit Master Clock And Signal Control (Lathem LTR8-512).....	1,411.53	182.99
27 53 13 00-0049	EA		Program Bell (Lathem 906-6).....	183.46	45.75
27 53 13 00-0050	EA		Combination Clock And Speaker	421.67	114.37

END OF SECTION 27

27	27	Communications
	27 50	Distributed Communications And Monitoring Systems
	27 53	Distributed Systems



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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**Electronic Safety And Security 28****Life Safety 28 40****Gas Detection and Alarm 28 42****28**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

28 Electronic Safety And Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

28 40 Life Safety⁽²⁸⁾

Note: Includes testing of new devices and certification. See CSI section 26 05 19 16-0011 for electrical connections and termination.

28 42 Gas Detection and Alarm^(28 40)

28 42 00 00-0001 Hydrogen Gas Detection^(28 42)

28 42 00 00-0002	EA	Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR)	1,122.40	34.36
28 42 00 00-0003	EA	Hydrogen Gas Detector Junction Box (SBS HGDI-JB)	64.12	11.45
28 42 00 00-0004	EA	Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM)	298.29	34.36

28 42 00 00-0005 Monitoring System For Underground Tanks^(28 42)

28 42 00 00-0006 Continuous Leak Detection System^(28 42 00 00-0005)

Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.

28 42 00 00-0007	EA	Single Channel Underground Tank Monitoring System	4,508.69	375.14
28 42 00 00-0008	EA	2 Channel Underground Tank Monitoring System	6,079.14	500.48
28 42 00 00-0009	EA	3 Channel Underground Tank Monitoring System	8,482.09	536.17
28 42 00 00-0010	EA	4 Channel Underground Tank Monitoring System	9,220.04	750.27
28 42 00 00-0011	EA	Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System	6,157.15	64.05
28 42 00 00-0012	EA	Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System	5,552.10	57.19
28 42 00 00-0013	EA	Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System	7,293.10	64.05
28 42 00 00-0014	EA	Tank Leak Detection Probe	2,253.33	13.73
28 42 00 00-0015	EA	Secondary Containment Collar Probe	277.71	5.49
28 42 00 00-0016	EA	Interstitial Leak Detection Probe	509.99	11.43
28 42 00 00-0017	EA	Liquid Phase Detection	1,680.65	34.31
28 42 00 00-0018	EA	Hydrocarbon Vapor, Fixed	1,553.14	34.31
28 42 00 00-0019	EA	Hydrocarbon Vapor, Float Mounted	1,812.48	38.89
28 42 00 00-0020	EA	Liquid And Vapor Hydrocarbon	2,067.49	38.89

28 43 Fuel Oil Detection And Alarm^(28 40)

See CSI section 28 42 00 00-0000 for detection and alarms.

28 46 Fire Detection And Alarm^(28 40)

28 46 11 Fire Sensors and Detectors^(28 46)

28 46 11 11 Linear Heat Detection Sensors^(28 46 11)

28 46 11 11-0001 Protectowire Fire Alarm^(28 46 11 11)

28 46 11 11-0002 Linear Heat Detector Cable^(28 46 11 11-0001)

28 46 11 11-0003	LF	Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC)	3.45	
28 46 11 11-0004	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M)	3.71	
28 46 11 11-0005	LF	High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR)	3.71	
28 46 11 11-0006	LF	High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M)	3.98	
28 46 11 11-0007	LF	Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT)	4.55	
28 46 11 11-0008	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M)	4.82	
28 46 11 11-0009	EA	Flexible Lead Connector For Linear Heat Detector (Protectowire PFL)	47.99	
28 46 11 11-0010	EA	Splicing Connector For Linear Heat Detector (Protectowire PWSC)	17.51	
28 46 11 11-0011	EA	Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W)	6.44	
28 46 11 11-0012	EA	Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2)	6.44	
28 46 11 11-0013	EA	Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO)	7.37	
28 46 11 11-0014	EA	Beam Clamp For Linear Heat Detector (Protectowire BC-2)	11.46	
28 46 11 11-0015	EA	Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P)	11.81	
28 46 11 11-0016	EA	Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A)	0.93	
28 46 11 11-0017	EA	Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B)	1.25	
28 46 11 11-0018	EA	Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C)	5.45	

28 46 20 Fire Alarm^(28 46)

28 46 21 33 Fire Detection and Alarm Annunciation Panels and Fire Stations^(28 46 20)

28 46 21 33-0001 Edwards Fire Alarm^(28 46 21 33)

28 46 21 33-0002 EST3 Life Safety And Security Control^(28 46 21 33-0001)

28 46 21 33-0003 EST3 Network^(28 46 21 33-0002)

28 46 21 33-0004 Remote Annunciators^(28 46 21 33-0003)

28 46 21 33-0005	EA	Remote LCD Command Module Annunciator (EST3 3-LCDANN)	927.27	68.72

Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0006 EA Six Position Base Annunciator (EST3 3-6ANN).....	762.04	68.72
Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 21 33-0007 EA Ten Position Base Annunciator (EST3 3-10ANN).....	954.70	68.72
Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 21 33-0008 EA Annunciator CPU (EST3 3-ANNCPU3).....	621.01	68.72
Note: One Required per graphic annunciator.		
28 46 21 33-0009 EA Annunciator Support Module (EST3 3-ANNM).....	119.40	22.91
Note: Takes one space in Annunciator box. Supports one Control/Display module.		
28 46 21 33-0010 EA Liquid Crystal Display Module (EST3 3-LCD).....	411.55	68.72
Note: Mounts over 3-CPU(1).		
28 46 21 33-0011 EA Liquid Crystal Display Module (EST3 3-LCDXL).....	426.87	68.72
Note: Mounts over 3-ANNCPU plus two spaces.		
28 46 21 33-0012 EA LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA).....	459.85	68.72
Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.		
28 46 21 33-0013 EA Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA).....	518.79	45.82
Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.		
28 46 21 33-0014 EA Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX).....	86.61	22.91
Note: Mounts up to three 3-EVDVRA modules.		
28 46 21 33-0015 EA Central Processor Unit Module (EST3 3-CPU3).....	1,091.78	68.72
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 33-0016 EA Primary Power Supply With Local Rail Module, 120 VAC, 50/60 Hz (EST3 3-CPU3).....	945.52	22.91
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 33-0017 Remote Annunciators Cabinets (28 46 21 33-0003)		
28 46 21 33-0018 EA Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCMB).....	92.47	22.91
28 46 21 33-0019 EA Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCMB-S).....	83.30	18.32
28 46 21 33-0020 EA Six Position LED/LCD Flush Wallbox (EST3 6ANN/B).....	102.82	22.91
28 46 21 33-0021 EA Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S).....	93.65	18.32
28 46 21 33-0022 EA Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B).....	112.54	22.91
28 46 21 33-0023 EA Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S).....	103.37	18.32
28 46 21 33-0024 Audio And Telephone Masters (28 46 21 33-0003)		
28 46 21 33-0025 EA Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	2,955.65	91.63
28 46 21 33-0026 EA Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4).....	1,666.21	91.63
28 46 21 33-0027 EA Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	1,561.45	91.63
28 46 21 33-0028 EA Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU).....	1,577.55	91.63
28 46 21 33-0029 EA Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	1,795.11	91.63
28 46 21 33-0030 EA Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95).....	1,569.54	45.82
28 46 21 33-0031 Battery Distribution Unit (28 46 21 33-0003)		
28 46 21 33-0032 EA Battery Distribution Unit (EST3 3-BTSEN).....	367.03	275.39
28 46 21 33-0033 Remote Booster Power Supply (28 46 21 33-0003)		
28 46 21 33-0034 EA 6.5 Amp, 120 VAC, Booster Power Supply (EST3 BPS6A).....	540.45	68.72
28 46 21 33-0035 EA 10 Amp, 110 VAC Booster Power Supply (EST3 BPS10).....	612.16	68.72
28 46 21 33-0036 EA 10 Amp, 220 VAC Booster Power Supply (EST3 BPS10220).....	665.00	68.72
28 46 21 33-0037 EA Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP).....	94.21	22.91
28 46 21 33-0038 Batteries And Battery Cabinets (28 46 21 33-0003)		
28 46 21 33-0039 EA 1.2 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V1A2 (1.2 Amp Hours)).....	74.52	22.91
28 46 21 33-0040 EA 4 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V4A (4.5 Amp Hours)).....	90.09	22.91
28 46 21 33-0041 EA 24 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V24A (26 Amp Hours)).....	197.57	22.91
28 46 21 33-0042 EA 6.5 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V6A5 (7.2 Amp Hours)).....	96.33	22.91
28 46 21 33-0043 EA 40 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V40A (40 Amp Hours)).....	247.46	22.91
28 46 21 33-0044 EA 10 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V10A (11 Amp Hours)).....	144.18	22.91
28 46 21 33-0045 EA 50 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V50A (50 Amp Hours)).....	490.54	22.91
28 46 21 33-0046 EA 17 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V17A (18 Amp Hours)).....	147.39	22.91
28 46 21 33-0047 EA 65 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V65A (65 Amp Hours)).....	588.27	22.91
28 46 21 33-0048 EA 8.0 Amp Hours Sealed Lead Acid Battery - 6 VDC (EST3 6V8A (8 Amp Hours)).....	87.06	22.91
28 46 21 33-0049 EA 10 Amp Hours Sealed Lead Acid Battery - 6 VDC (EST3 6V10A (12 Amp Hours)).....	79.27	22.91
28 46 21 33-0050 EA Battery Cabinet, 14.0" x 18.25" x 7.25" Free Standing Cabinet With Key Lock (EST3 BC-1).....	265.42	45.82
Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.		
28 46 21 33-0051 EA Battery Cabinet, Gray 22" X 15" X 3.75" (EST3 BC-2).....	223.47	45.82
Note: Holds up to two 12V17A batteries.		
28 46 21 33-0052 EA Remote Closet Enclosure (EST3 3-RCC7R).....	731.36	91.63
28 46 21 33-0053 EA Remote Closet Enclosure (EST3 3-RCC14R).....	896.53	91.63
28 46 21 33-0054 EA Remote Closet Enclosure (EST3 3-RCC21R).....	1,239.05	91.63
28 46 21 33-0055 Serial Printer (28 46 21 33-0003)		
28 46 21 33-0056 EA System Printer - Desk Top Style (EST3 PT-1S).....	941.30	22.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0057 Intelligent Analog Initiating Devices (28 46 21 33-0002)		
28 46 21 33-0058 Detectors, Signature (28 46 21 33-0057)		
28 46 21 33-0059 EA Intelligent 4D Multisensor Detector - Ionization, Photoelectric, Heat (EST3 SIGA-IPHS)	162.68	34.36
28 46 21 33-0060 EA Intelligent 4D Multisensor Detector, Black - Ionization, Photoelectric, Heat (EST3 SIGA-IPHSB)	180.81	34.36
28 46 21 33-0061 EA Intelligent 3D Multisensor Detector - Photoelectric, Heat (EST3 SIGA-PHS)	157.27	34.36
28 46 21 33-0062 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA-PS)	141.07	34.36
28 46 21 33-0063 EA Intelligent Ionization Smoke Detector (EST3 SIGA-IS)	146.47	34.36
28 46 21 33-0064 EA Intelligent Fixed Temperature / Rate-of-Rise Heat Detector - 135F, 15F Per Minute (EST3 SIGA-HRS)	123.00	34.36
28 46 21 33-0065 EA Intelligent Fixed Temperature Heat Detector - 135 Degree F (EST3 SIGA-HFS)	123.00	34.36
28 46 21 33-0066 EA Passive Infrared Motion Detector (EST3 SIGA-MD)	185.64	34.36
28 46 21 33-0067 EA Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS)	203.33	34.36
28 46 21 33-0068 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS)	174.15	34.36
28 46 21 33-0069 EA Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS)	244.47	34.36
28 46 21 33-0070 EA Intelligent Fixed Temperature Heat Detector - 135 Degree F (EST3 SIGA2-HFS)	147.91	34.36
28 46 21 33-0071 EA Intelligent Fixed Temperature / Rate-of-Rise Heat Detector - 135F, 15F Per Minute (EST3 SIGA2-HRS)	147.91	34.36
28 46 21 33-0072 EA Intelligent 3D Multisensor Detector - Photoelectric, Heat (EST3 SIGA2-PHS)	197.78	34.36
28 46 21 33-0073 Detectors, Duct Housings and Accessories, Signature (28 46 21 33-0057)		
28 46 21 33-0074 EA Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD)	323.29	57.27
28 46 21 33-0075 EA Superduct, Test Magnet Kit (EST3 SD-MAG)	16.10	
28 46 21 33-0076 EA Superduct, 120" Air Sample Tube (EST3 SD-T120)	45.47	13.75
28 46 21 33-0077 EA Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK)	86.04	18.32
28 46 21 33-0078 EA Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS)	113.46	18.32
28 46 21 33-0079 EA High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL)	54.77	18.32
28 46 21 33-0080 Detectors, Smoke, Beam (28 46 21 33-0057)		
28 46 21 33-0081 EA Fireray 2000 Beam Alignment Aid, For Quick Alignment Of Beam Detector Transmitter And Receiver Heads (EST3 0201-01-A)	106.45	
28 46 21 33-0082 EA Fireray 2000 Beam Smoke Detector (By Fire Fighting Enterprises) (EST3 22310-18-01)	1,243.39	34.36
Note: Includes controller and remote mount transmitter and receiver head.		
28 46 21 33-0083 EA Fireray 2000 Beam Detector Prism, Use To Reflect Beam When Mounting Transmitter And Receiver Heads On Same Wall (EST3 23901-00)	78.56	11.45
28 46 21 33-0084 EA Replacement Reflector, For EC-50R/-100R Reflective Beam Detectors (EST3 23901-01)	92.44	11.45
28 46 21 33-0085 EA 160 - 330' Reflective Beam Detector (EST3 EC-100R)	1,273.59	34.36
28 46 21 33-0086 EA 15 - 160' Reflective Beam Detector (EST3 EC-50R)	1,088.23	34.36
28 46 21 33-0087 EA Remote Test Station, For EC-50R/-100R Reflective Beam Detectors (EST3 EC-LLT)	254.67	11.45
28 46 21 33-0088 EA 160 - 330' Self Adjusting Reflective Beam Detector (EST3 EC-5000R)	1,341.98	34.36
28 46 21 33-0089 Modules, Signature (28 46 21 33-0057)		
28 46 21 33-0090 EA Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB)	148.79	22.91
28 46 21 33-0091 EA Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1)	100.95	22.91
28 46 21 33-0092 EA Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2)	139.78	22.91
28 46 21 33-0093 EA Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2)	134.34	22.91
28 46 21 33-0094 EA Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1)	127.18	22.91
28 46 21 33-0095 EA Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2)	150.66	22.91
28 46 21 33-0096 EA Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR)	121.71	22.91
Note: Select for either N.O. or N.C. operation. Rated at 2 amps (24Vdc).		
28 46 21 33-0097 EA Control Relay UIO (Plug In) Module (EST3 SIGA-MCR)	118.17	22.91
28 46 21 33-0098 EA Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S)	154.29	22.91
28 46 21 33-0099 EA Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO)	150.66	22.91
28 46 21 33-0100 EA Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO)	145.26	22.91
28 46 21 33-0101 EA Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM)	134.05	111.14
28 46 21 33-0102 EA Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1)	100.95	22.91
Note: Factory programmed for non-latching monitor operation.		
28 46 21 33-0103 EA Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S)	154.99	22.91
28 46 21 33-0104 Module Accessories, Signature (28 46 21 33-0057)		
Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 & 2-gang modules.		
28 46 21 33-0105 EA Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4)	41.06	11.45
28 46 21 33-0106 EA Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6)	132.59	22.91
28 46 21 33-0107 EA Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, -UM And -MAB Modules (EST3 235196P)	16.45	6.87
28 46 21 33-0108 EA Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1-Gang Signature Modules (EST3 SIGA-MP1)	47.31	11.45
28 46 21 33-0109 EA Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1-Gang Signature Modules (EST3 SIGA-MP2)	42.82	11.45
28 46 21 33-0110 EA Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L)	44.60	11.45

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0111		Single Action Pull Stations, Signature (28 46 21 33-0057)		
28 46 21 33-0112	EA	One Stage Fire Alarm Station, English Markings (EST3 SIGA-270)	172.99	47.65
28 46 21 33-0113	EA	Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P)	200.10	47.65
28 46 21 33-0114	EA	GA Key - For Pre Signal Station (EST3 276-K2)	22.92	18.35
28 46 21 33-0115	EA	20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR)	28.14	23.57
28 46 21 33-0116	EA	Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB)	48.35	30.02
28 46 21 33-0117		Double Action Pull Stations, Signature (28 46 21 33-0057)		
28 46 21 33-0118	EA	Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278)	178.40	47.65
28 46 21 33-0119	EA	12 Glass Rods For SIGA-278 Series (EST3 276-GLR)	28.53	4.59
28 46 21 33-0120		Detector Bases and Accessories, Signature (28 46 21 33-0057)		
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.				
28 46 21 33-0121	EA	Audible (Sounder) Base (EST3 SIGA-AB4G)	81.15	11.45
28 46 21 33-0122	EA	Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB)	33.80	11.45
28 46 21 33-0123	EA	Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4)	99.95	11.45
28 46 21 33-0124	EA	Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG)	59.12	11.45
28 46 21 33-0125	EA	Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DGSB)	68.15	11.45
28 46 21 33-0126	EA	Detector Mounting Plate (EST3 SIGA-DMP)	104.27	11.45
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.				
28 46 21 33-0127	EA	Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED)	41.06	11.45
28 46 21 33-0128	EA	Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS)	16.53	6.87
28 46 21 33-0129	EA	Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4)	16.53	6.87
28 46 21 33-0130	EA	Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF)	40.93	6.87
28 46 21 33-0131	EA	Detector Base With Isolator (EST3 SIGA-IB)	67.23	11.45
28 46 21 33-0132	EA	Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4)	71.10	11.45
28 46 21 33-0133	EA	Detector Base With Form 'C' Relay (EST3 SIGA-RB)	60.48	11.45
28 46 21 33-0134	EA	Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4)	60.48	11.45
28 46 21 33-0135	EA	Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4)	35.15	11.45
28 46 21 33-0136		Controllers, Signature (28 46 21 33-0057)		
28 46 21 33-0137	EA	Signature Dual Driver Controller (EST3 3-SDDC1)	2,123.15	68.72
28 46 21 33-0138	EA	Single Signature Loop Controller (EST3 3-SSDC1)	1,231.72	68.72
28 46 21 33-0139	EA	Signature Loop Controller (EST3 3-SDC1)	1,110.04	68.72
28 46 21 33-0140	EA	Analog Addressable Loop Controller (EST3 3-AADC1)	1,758.44	68.72
28 46 21 33-0141		Relays And Accessories (28 46 21 33-0057)		
28 46 21 33-0142	EA	Multi Voltage Relay (EST3 MR101)	122.36	22.91
28 46 21 33-0143	EA	Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T)	38.77	11.45
28 46 21 33-0144		Notification Appliances (28 46 21 33-0002)		
28 46 21 33-0145		Wall Strobes, Horns And Chimes (28 46 21 33-0144)		
28 46 21 33-0146	EA	Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM)	107.34	34.36
28 46 21 33-0147	EA	Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM)	107.34	34.36
28 46 21 33-0148	EA	Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM)	119.92	34.36
28 46 21 33-0149	EA	Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD)	93.17	34.36
28 46 21 33-0150	EA	Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD)	93.17	34.36
28 46 21 33-0151	EA	Temporal Horn, Hi/Lo dB Output, 24 VDC, White, With The Word "FIRE" On Housing (EST3 G1F-HD)	93.17	34.36
28 46 21 33-0152	EA	Temporal Horn, Hi/Lo dB Output, 24 VDC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD)	93.17	34.36
28 46 21 33-0153	EA	Horn (Steady Tone), 24 VDC, White, Not Compatible With Signal Master (EST3 G1-P)	81.26	34.36
28 46 21 33-0154	EA	Horn (Steady Tone) - 24 VDC, Red, Not Compatible With Signal Master (EST3 G1R-P)	81.26	34.36
28 46 21 33-0155	EA	Horn (Steady Tone), 24 VDC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P)	81.26	34.36
28 46 21 33-0156	EA	Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM)	171.27	34.36
28 46 21 33-0157	EA	Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM)	171.27	34.36
28 46 21 33-0158	EA	Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C)	118.39	34.36
28 46 21 33-0159	EA	Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C)	118.39	34.36
28 46 21 33-0160	EA	Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575)	107.34	34.36
28 46 21 33-0161	EA	Multi-cd Strobe, 24 VDC, White, With The Word "FIRE" On Housing (EST3 G1F-VM)	107.34	34.36
28 46 21 33-0162	EA	Multi-Candela Strobe, 24 VDC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM)	107.34	34.36
28 46 21 33-0163	EA	Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575)	107.34	34.36
28 46 21 33-0164	EA	Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM)	110.88	34.36
28 46 21 33-0165	EA	Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM)	110.88	34.36
28 46 21 33-0166	EA	Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST GCF-VMH)	119.15	34.36
28 46 21 33-0167	EA	Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM)	110.88	34.36
28 46 21 33-0168	EA	Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH)	110.88	34.36
28 46 21 33-0169	EA	Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE)	73.52	34.36
28 46 21 33-0170	EA	Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE)	73.52	34.36



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0171			Wall Speakers And Speaker Strobes (28 46 21 33-0144)		
28 46 21 33-0172	EA		Multi-Wattage 25 VRMS Speaker (EST3 G4-S2)	92.10	34.36
28 46 21 33-0173	EA		Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM)	132.00	34.36
28 46 21 33-0174	EA		Multi-Wattage 70 VRMS Speaker (EST3 G4-S7)	92.10	34.36
28 46 21 33-0175	EA		Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM)	132.00	34.36
28 46 21 33-0176	EA		Surface Box, White, For Genesis Speaker (EST3 G4B)	46.37	18.32
28 46 21 33-0177	EA		Surface Box, Red, For Genesis Speaker (EST3 G4RB)	46.37	18.32
28 46 21 33-0178			Ceiling Speakers And Speaker Strobes (28 46 21 33-0144)		
28 46 21 33-0179	EA		Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7)	106.57	34.36
28 46 21 33-0180	EA		Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM)	132.00	34.36
28 46 21 33-0181	EA		Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VMH)	140.05	34.36
28 46 21 33-0182			Harsh Environment Signals (28 46 21 33-0144)		
28 46 21 33-0183	EA		Temporal Horn, Self-Synchronized, 24 VDC (EST3 757-1A-T)	96.67	34.36
28 46 21 33-0184	EA		15/75 Candela Temporal Horn/Strobe, 24 VDC (EST3 757-7A-T)	128.43	34.36
28 46 21 33-0185	EA		110 Candela Temporal Horn/Strobe, 24 VDC (EST3 757-8A-T)	128.43	34.36
28 46 21 33-0186	EA		15 Candela Synchronized, 24 VDC, Strobe (EST3 405-5A-T)	118.98	34.36
28 46 21 33-0187	EA		15/75 Candela Synchronized, 24 VDC, Strobe (EST3 405-7A-T)	112.71	34.36
28 46 21 33-0188	EA		30 Candela Synchronized, 24 VDC, Strobe (EST3 405-3A-T)	118.98	34.36
28 46 21 33-0189	EA		60 Candela Synchronized, 24 VDC, Strobe (EST3 405-6A-T)	118.98	34.36
28 46 21 33-0190	EA		110 Candela Synchronized, 24 VDC, Strobe (EST3 405-8A-T)	118.98	34.36
28 46 21 33-0191	EA		15/75 Candela Synchronized, 24 VDC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T)	132.04	38.95
28 46 21 33-0192	EA		110 Candela Synchronized, 24 VDC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T)	132.04	38.95
28 46 21 33-0193	EA		15 Candela Temporal Horn/Strobe, 24 VDC (EST3 757-5A-T)	100.53	34.36
28 46 21 33-0194	EA		30 Candela Temporal Horn/Strobe, 24 VDC (EST3 757-3A-T)	125.47	34.36
28 46 21 33-0195			Fire Alarm Bells (28 46 21 33-0144)		
28 46 21 33-0196	EA		10" Single Stroke Fire Alarm Bells, 24 VDC (EST3 323D-10AW)	137.24	34.36
28 46 21 33-0197	EA		6" Vibrating Fire Alarm Bells, 24 VDC (EST3 439D-6AW)	113.52	34.36
28 46 21 33-0198	EA		10" Vibrating Fire Alarm Bells, 24 VDC (EST3 439D-10AW)	123.64	34.36
28 46 21 33-0199			Multiple Tone Signal (28 46 21 33-0144)		
28 46 21 33-0200	EA		27 Tone Selectable Signal, 24 VDC (EST3 5530MD-24AW)	780.37	746.01
28 46 21 33-0201			Multi-Purpose Loudspeaker (28 46 21 33-0144)		
28 46 21 33-0202	EA		15 Watt Loudspeaker, Gray (EST3 HPSA15G2570)	175.06	34.36
28 46 21 33-0203	EA		15 Watt Loudspeaker, Red (EST3 HPSA15R2570)	175.06	34.36
28 46 21 33-0204			Bell/Strobe Plate (28 46 21 33-0144)		
28 46 21 33-0205	EA		Bell/Strobe Plate - 15cd (EST3 403-5A-R)	89.06	18.32
28 46 21 33-0206			Mounting Accessories (28 46 21 33-0144)		
28 46 21 33-0207	EA		Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11)	47.11	18.32
28 46 21 33-0208	EA		One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY)	47.11	18.32
28 46 21 33-0209	EA		Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16)	47.11	18.32
28 46 21 33-0210	EA		Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21)	47.11	18.32
28 46 21 33-0211	EA		Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26)	47.11	18.32
28 46 21 33-0212			Firefighters' Telephones (28 46 21 33-0144)		
28 46 21 33-0213	EA		Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4)	713.15	57.27
28 46 21 33-0214	EA		Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4)	413.85	57.27
28 46 21 33-0215	EA		Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F)	306.07	57.27
28 46 21 33-0216	EA		Telephone Handset Assembly - Red c/w 60' Coiled Cord (EST3 6830-1)	230.93	57.27
28 46 21 33-0217	EA		Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4)	400.44	57.27
28 46 21 33-0218	EA		Three State Telephone Handset Assembly - Red, 60' Coiled Cord, Push To Talk Button (EST3 6830-5A)	257.75	57.27
28 46 21 33-0219	EA		Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4)	447.94	57.27
28 46 21 33-0220	EA		Three State Telephone Handset Assembly - Red, 60' Armored Cord, Push To Talk Button (EST3 6830-6A)	266.68	57.27
28 46 21 33-0221	EA		Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4)	508.76	57.27
28 46 21 33-0222	EA		Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1)	61.73	18.32
28 46 21 33-0223	EA		Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4)	69.51	18.32
28 46 21 33-0224	EA		Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3)	86.56	
28 46 21 33-0225	EA		Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061)	86.56	
28 46 21 33-0226	EA		Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1)	139.20	22.91
28 46 21 33-0227	EA		Frontplate - Flush Mount, Red Finish, Non Break Glass Type With Two Keys (EST3 6831-2)	170.17	22.91
28 46 21 33-0228	EA		Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3)	123.71	22.91
28 46 21 33-0229	EA		Frontplate - Surface Mount, Red Finish, Non Break Glass Type, With Two Keys (EST3 6831-4)	119.16	22.91

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0230 EA Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	97.02	34.36
28 46 21 33-0231 EA Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	729.34	45.82
28 46 21 33-0232 Mass Notification EC Appliances (28 46 21 33-0144)		
28 46 21 33-0233 EA G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	110.91	34.36
28 46 21 33-0234 EA G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	107.69	34.36
28 46 21 33-0235 EA G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA).....	110.91	34.36
28 46 21 33-0236 EA G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC).....	107.69	34.36
28 46 21 33-0237 EA G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT).....	17.60	6.87
28 46 21 33-0238 Hazardous Location Devices (28 46 21 33-0002)		
28 46 21 33-0239 Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location (28 46 21 33-0238)		
28 46 21 33-0240 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135).....	100.66	34.36
28 46 21 33-0241 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194).....	100.66	34.36
28 46 21 33-0242 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135).....	103.33	34.36
28 46 21 33-0243 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194).....	103.33	34.36
28 46 21 33-0244 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135).....	135.28	34.36
28 46 21 33-0245 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194).....	135.28	34.36
28 46 21 33-0246 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135).....	103.33	34.36
28 46 21 33-0247 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194).....	103.33	34.36
28 46 21 33-0248 Hazardous Locations Fire Alarm Station (28 46 21 33-0238)		
28 46 21 33-0249 EA Hazardous Location Fire Alarm Station (EST3 XAL53).....	753.73	57.27
28 46 21 33-0250 EA Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPTD (EST3 MPSR1-D45WX-GE).....	719.00	57.27
28 46 21 33-0251 Hazardous Location Strobes (28 46 21 33-0238)		
28 46 21 33-0252 EA Explosion Proof Strobe (EST3 116DEXSTC-FJ).....	1,093.50	34.36
28 46 21 33-0253 EA Wall Bracket Mounting Elbow (EST3 116EX-B).....	206.75	11.45
28 46 21 33-0254 EA Ceiling / Wall Mounting Module (EST3 116EX-C).....	269.82	13.75
28 46 21 33-0255 EA Pendant Mounting Module (EST3 116EX-P).....	199.93	13.75
28 46 21 33-0256 Hazardous Location Bells (28 46 21 33-0238)		
28 46 21 33-0257 EA 6" Hazardous Location Bells, 24 VDC (EST3 439DEX-6AW).....	794.14	34.36
28 46 21 33-0258 EA 8" Hazardous Location Bells, 24 VDC (EST3 439DEX-8AW).....	814.24	34.36
28 46 21 33-0259 EA 10" Hazardous Location Bells, 24 VDC (EST3 439DEX-10AW).....	821.48	34.36
28 46 21 33-0260 Hazardous Location Horns (28 46 21 33-0238)		
28 46 21 33-0261 EA Hazardous Location Horns (EST3 888D-N5).....	776.81	34.36
28 46 21 33-0262 EA Explosion Proof Horn, Diode Polarized, 24 VDC (EST3 889D-AW).....	637.70	34.36
28 46 21 33-0263 Door Holders And Relays (28 46 21 33-0002)		
28 46 21 33-0264 Electromagnetic Door Holders (28 46 21 33-0263)		
28 46 21 33-0265 EA Door Holder, Single, Floor Mount - 24 VAC / 24 VDC / 120 VAC (EST3 1501-AQN5).....	153.80	34.36
28 46 21 33-0266 EA Door Holder, Double, Floor Mount - 24 VAC / 24 VDC / 120 VAC (EST3 1502-AQN5).....	194.15	34.36
28 46 21 33-0267 EA Door Holder, Flush, Wall Mount - 24 VAC / 24 VDC / 120 VAC (EST3 1504-AQN5).....	133.20	34.36
28 46 21 33-0268 EA Door Holder, Flush, Wall Mount, Short Catch Plate - 24 VAC / 24 VDC / 120 VAC (EST3 1505-AQN5).....	133.20	34.36
28 46 21 33-0269 EA Door Holder, Surface, Wall Mount - 24 VAC / 24 VDC / 120 VAC (EST3 1508-AQN5).....	135.06	34.36
28 46 21 33-0270 EA Door Holder, Completely Flush, Wall Mount - 24 VAC / 24 VDC / 120 VAC (EST3 1509-AQN5).....	136.84	34.36
28 46 21 33-0271 Control Relays, Multi-Voltage (28 46 21 33-0263)		
28 46 21 33-0272 EA Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1).....	31.06	6.87
28 46 21 33-0273 FireShield Plus (28 46 21 33-0002)		
28 46 21 33-0274 3 Zone System (28 46 21 33-0273)		
28 46 21 33-0275 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R).....	879.40	274.90
28 46 21 33-0276 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD).....	1,263.63	366.53
28 46 21 33-0277 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G).....	879.40	274.90

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0278 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD).....	1,263.63	366.53
28 46 21 33-0279 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G).....	57.68	11.45
28 46 21 33-0280 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	57.68	11.45
28 46 21 33-0281 5 Zone System (28 46 21 33-0273)		
28 46 21 33-0282 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R).....	935.67	274.90
28 46 21 33-0283 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD).....	1,316.68	366.53
28 46 21 33-0284 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G).....	935.67	274.90
28 46 21 33-0285 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD).....	1,316.68	366.53
28 46 21 33-0286 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G).....	57.68	11.45
28 46 21 33-0287 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	57.68	11.45
28 46 21 33-0288 10 Zone System (28 46 21 33-0273)		
28 46 21 33-0289 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R).....	1,335.98	366.53
28 46 21 33-0290 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD).....	1,720.22	458.17
28 46 21 33-0291 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G).....	1,311.86	366.53
28 46 21 33-0292 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD).....	1,720.22	458.17
28 46 21 33-0293 EA Semi Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G).....	66.38	11.45
28 46 21 33-0294 EA NAC Power Expansion Transformer, 120 VAC, Increases 10 Zone FACP NAC (EST3 F-XTR120).....	122.37	22.91
28 46 21 33-0295 FireShield Plus Off Premise Communication Options (28 46 21 33-0273)		
28 46 21 33-0296 EA F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT).....	254.83	22.91
28 46 21 33-0297 FireShield Plus Remote LED Annunciators (28 46 21 33-0273)		
28 46 21 33-0298 EA Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI).....	120.89	34.36
28 46 21 33-0299 EA Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A).....	120.89	34.36
28 46 21 33-0300 EA Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA).....	124.99	34.36
28 46 21 33-0301 EA Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2).....	24.21	6.87
28 46 21 33-0302 EA Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3).....	29.45	6.87
28 46 21 33-0303 EA Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4).....	42.06	6.87
28 46 21 33-0304 FireShield Plus Remote 10 Zone LED Annunciators (28 46 21 33-0273)		
28 46 21 33-0305 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10).....	342.04	34.36
28 46 21 33-0306 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C).....	374.19	34.36
28 46 21 33-0307 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1).....	126.21	22.91
28 46 21 33-0308 FireShield Plus Remote Relays And Interfaces (28 46 21 33-0273)		
28 46 21 33-0309 EA Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24).....	132.77	22.91
28 46 21 33-0310 EA 11" Snap Track Holds 2-4 RRM's, Used To Mount FSRRMs In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11).....	57.11	13.75
28 46 21 33-0311 EA Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM).....	204.99	22.91
28 46 21 33-0312 FireShield Plus Accessories (28 46 21 33-0273)		
28 46 21 33-0313 EA Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1).....	13.02	
28 46 21 33-0314 EA 4.7k UL End Of Line Resistor With FireShield Panels (EST3 EOL47PK7).....	8.62	
28 46 21 33-0315 iO Series Fire Control Panels (28 46 21 33-0002)		
28 46 21 33-0316 Intelligent Analog Control Panels (28 46 21 33-0315)		
28 46 21 33-0317 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amp Power Supply, Gray Door, 115 VAC, Capacity For Up (2) 18a/h Batteries, English (EST3 IO500G).....	2,681.56	458.17

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0318 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amp Power Supply, Gray Door, 115 VAC, Capacity For Up (2) 18 a/h Batteries, With Dual Line Dialer/Modem, English (EST3 IO500GD)	2,837.51	458.17
28 46 21 33-0319 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amp Power Supply, Gray Door, 115 VAC, Capacity For Up (2) 10 a/h Batteries, English (EST3 IO64G)	2,141.40	366.53
28 46 21 33-0320 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amp Power Supply, Gray Door, 115 VAC, Capacity For Up (2) 10a/h Batteries, With Dual Line Dialer/Modem, English (EST3 IO64GD)	2,213.74	366.53
28 46 21 33-0321 Option Modules And Accessories For iO Series (28 46 21 33-0315)		
28 46 21 33-0322 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1)	229.50	34.36
28 46 21 33-0323 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2)	149.11	34.36
28 46 21 33-0324 EA Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232)	149.11	34.36
28 46 21 33-0325 EA Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA)	126.21	22.91
28 46 21 33-0326 EA Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT)	245.66	18.32
28 46 21 33-0327 EA Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH)	438.59	18.32
28 46 21 33-0328 EA Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1)	56.67	11.45
28 46 21 33-0329 EA Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2)	64.71	11.45
28 46 21 33-0330 EA Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250)	815.12	45.82
28 46 21 33-0331 Remote Annunciators For iO Series (28 46 21 33-0315)		
28 46 21 33-0332 EA Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD)	450.55	34.36
28 46 21 33-0333 EA Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C)	470.66	34.36
28 46 21 33-0334 Remote Annunciator Accessories (28 46 21 33-0315)		
28 46 21 33-0335 EA 24 Expander Cable Assembly, With Cable And Hardware (EST3 730073)	55.07	11.45
28 46 21 33-0336 EA 12 Expander Cable (Cable Only) (EST3 7120313-01)	38.99	11.45
28 46 21 33-0337 EA 24 Expander Cable (Cable Only) (EST3 7120313-02)	51.04	11.45
28 46 21 33-0338 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1)	149.11	34.36
28 46 21 33-0339 EA Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2)	169.20	34.36
28 46 21 33-0340 EA Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3)	189.30	34.36
28 46 21 33-0341 EA Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC)	38.99	11.45
28 46 21 33-0342 EA Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC)	38.99	11.45
28 46 21 33-0343 EA Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY)	74.11	11.45
28 46 21 33-0344 System Accessories (28 46 21 33-0315)		
28 46 21 33-0345 EA Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 VDC, 24 Amp Batteries (EST3 BC-1)	265.42	45.82
28 46 21 33-0346 EA Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A)	1,281.63	366.53
28 46 21 33-0347 Conventional Initiating Devices (28 46 21 33-0002)		
28 46 21 33-0348 Detectors, Heat, Double Pole (28 46 21 33-0347)		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 21 33-0349 EA Heat Detector, 135 Degree F Fixed Temperature (CF135-2)	112.04	34.36
28 46 21 33-0350 EA Heat Detector, 200 Degree F Fixed Temperature (CF200-2)	112.04	34.36
28 46 21 33-0351 EA Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2)	112.04	34.36
28 46 21 33-0352 EA Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2)	112.04	34.36
28 46 21 33-0353 Detectors, Rate Compensation Heat, Accessories (28 46 21 33-0347)		
28 46 21 33-0354 EA Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P)	74.79	34.36
28 46 21 33-0355 EA Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11)	168.06	18.32
28 46 21 33-0356 EA 4" Weatherproof, Octagon Backbox And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27)	61.49	22.91
28 46 21 33-0357 Detectors, Heat, Fire-Lite (28 46 21 33-0347)		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 21 33-0358 EA Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135)	105.89	34.36
28 46 21 33-0359 EA Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194)	105.89	34.36
28 46 21 33-0360 Audio Notification Systems (Standalone Voice Evacuation) (28 46 21 33-0002)		



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Life Safety			28 40	
Fire Detection And Alarm			28 46	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0361 Audio Notification Panels (28 46 21 33-0360)		
28 46 21 33-0362 EA Audio Notification Panel, 100W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG)	3,303.85	458.17
28 46 21 33-0363 EA Audio Notification Panel, 100W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR)	3,303.85	458.17
28 46 21 33-0364 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG)	2,524.09	458.17
28 46 21 33-0365 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR)	2,524.09	458.17
28 46 21 33-0366 EA Audio Notification Panel, 50W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG)	2,909.95	458.17
28 46 21 33-0367 EA Audio Notification Panel, 50W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR)	2,909.95	458.17
28 46 21 33-0368 Audio Notification Expander Panels (28 46 21 33-0360)		
28 46 21 33-0369 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG)	2,588.40	458.17
28 46 21 33-0370 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR)	2,588.40	458.17
28 46 21 33-0371 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG)	1,832.76	458.17
28 46 21 33-0372 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR)	1,832.76	458.17
28 46 21 33-0373 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG)	2,274.89	458.17
28 46 21 33-0374 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR)	2,274.89	458.17
28 46 21 33-0375 Audio Notification Output Accessories (28 46 21 33-0360)		
28 46 21 33-0376 EA Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B)	95.26	11.45
28 46 21 33-0377 EA Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A)	407.56	22.91
28 46 21 33-0378 EA Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B)	407.56	22.91
28 46 21 33-0379 EA Class A Converter (GE ANSZSC4A)	295.02	22.91
28 46 21 33-0380 Audio Notification Remote Microphone (28 46 21 33-0360)		
28 46 21 33-0381 EA Microphone (GE ANSMIKE)	118.17	22.91
28 46 21 33-0382 EA Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG)	447.76	22.91
28 46 21 33-0383 EA Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR)	447.76	22.91
28 46 21 33-0384 EA Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP)	103.30	11.45
28 46 21 33-0385 EA Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR)	59.08	11.45
28 46 21 33-0386 Audio Notification Accessories (28 46 21 33-0360)		
28 46 21 33-0387 EA Audio Matching - Line Input/Output Card (GE ANSAUX)	190.52	22.91
28 46 21 33-0388 EA Class B Backup Amplifier Switching Module (GE ANSBKUP)	190.52	22.91
28 46 21 33-0389 EA Class A Backup Amplifier Switching Module (GE ANSBKUPA)	190.52	22.91
28 46 21 33-0390 EA Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANSRSI8)	407.56	22.91
28 46 21 33-0391 Audio Notification Modules, Without Cabinet And Transformer (28 46 21 33-0360)		
28 46 21 33-0392 EA 100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A)	1,466.26	45.82
Note: Excludes cabinet.		
28 46 21 33-0393 EA 100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM)	1,538.61	45.82
Note: Excludes cabinet.		
28 46 21 33-0394 EA 100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD)	2,117.39	45.82
Note: Excludes cabinet.		
28 46 21 33-0395 EA 25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A)	815.12	45.82
Note: Excludes cabinet.		
28 46 21 33-0396 EA 25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM)	815.12	45.82
Note: Excludes cabinet.		
28 46 21 33-0397 EA 25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD)	1,466.26	45.82
28 46 21 33-0398 EA 50W Expander Module (No Microphone Or DMR) (GE ANS50A)	1,176.86	45.82
Note: Excludes cabinet.		
28 46 21 33-0399 EA 50W Expander Module With Microphone (No DMR) (GE ANS50AM)	1,249.21	45.82
Note: Excludes cabinet.		
28 46 21 33-0400 EA 50W Audio Notification Module With DMR And Microphone (GE ANS50AMD)	1,828.00	45.82
Note: Excludes cabinet.		
28 46 21 33-0401 EA Power Transformer, Open Frame, 28 VAC @ 180 VA (EVAX 50/100) (GE ANST28180)	95.26	11.45
28 46 21 33-0402 EA Power Transformer, Open Frame, 28 VAC @ 100 VA (EVAX 25) (GE ANST2885)	71.98	11.45

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
28 46 21 33-0403		Simplex Fire Alarm (28 46 21 33)			
28 46 21 33-0404		4100 Fire Alarm Control Panel (28 46 21 33-0403)			
28 46 21 33-0405	EA	4100U Master Controller Assembly With LCD And Operator Interface, 9 Amp System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACS, Auxiliary Relay And External RUI Communications Interface, 120 VAC Input (Simplex 4100-9111)	4,267.72	457.49	
28 46 21 33-0406	EA	4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amp System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 VAC Input (Simplex 4100-9141)	4,616.93	457.49	
28 46 21 33-0407	EA	4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142)	6,445.91	457.49	
28 46 21 33-0408	EA	IDNet Module, Up To 127 Points (Simplex 4100-3104)	2,895.40	457.49	
28 46 21 33-0409	EA	Note: Add-on module. IDNet Module, Up To 64 Points (Simplex 4100-3105)	2,362.83	457.49	
28 46 21 33-0410	EA	Note: Add-on module. Expansion Power Supply, 3 NACS, 120 VAC (Simplex 4100-5101)	1,273.85	114.37	
28 46 21 33-0411	EA	Note: Add-on module. Alarm Relay, 3 Form C Relays, 2 Amp @ 32 VDC, For SPS Or RPS (Simplex 4100-6033)	265.96	22.88	
28 46 21 33-0412	EA	Note: Add-on module. Dual Port RS-232 Interface Card (Simplex 4100-6038)	742.50	22.88	
28 46 21 33-0413		4100U Backbox (28 46 21 33-0403)			
28 46 21 33-0414	EA	2 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9425)	1,312.93	91.50	
28 46 21 33-0415	EA	Note: 24" x 40" beige backbox. 3 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9443)	1,831.05	91.50	
28 46 21 33-0415	EA	Note: 24" x 56" beige backbox.			
28 46 21 33-0416		DACT (Digital Alarm Communicator Transmitter) (28 46 21 33-0403)			
28 46 21 33-0417	EA	6 Zone Fire Control Communicator (Silent Knight SK-5104)	716.76	45.75	
28 46 21 33-0418		4010 Fire Alarm Control Panel (28 46 21 33-0403)			
28 46 21 33-0419	EA	120 VAC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACS, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101)	4,053.70	457.49	
28 46 21 33-0420	EA	240 VAC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACS, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201)	4,089.01	457.49	
28 46 21 33-0421	EA	Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806)	148.62	22.88	
28 46 21 33-0422	EA	Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811)	616.57	22.88	
28 46 21 33-0423	EA	Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812)	844.50	22.88	
28 46 21 33-0424	EA	120 VAC, 4 Amp Expansion Power Supply Expansion Module (Simplex 4010-9813)	438.07	22.88	
28 46 21 33-0425	EA	240 VAC, 4 Amp Expansion Power Supply Expansion Module (Simplex 4010-9823)	473.35	22.88	
28 46 21 33-0426	EA	Battery Meter Module Expansion Module (Simplex 4010-9820)	182.91	22.88	
28 46 21 33-0427		Printer (28 46 21 33-0403)			
28 46 21 33-0428	EA	24 Pin Dot Matrix Printer (Simplex 4190-9013)	1,272.85	22.88	
28 46 21 33-0429		NAC Panel / Power Booster (28 46 21 33-0403)			
28 46 21 33-0430	EA	IDNet NAC Extender With 4, Class B (Style Y) NACs and 8 Amp Power Supply, 120 VAC (Simplex 4009-9201)	870.38	114.37	
28 46 21 33-0430	EA	Note: Power supply for horns and strobes.			
28 46 21 33-0431		Battery (28 46 21 33-0403)			
28 46 21 33-0432	EA	50 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9296)	521.19	22.88	
28 46 21 33-0433	EA	Note: Two required for 24 volt DC. 33 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9276)	349.86	22.88	
28 46 21 33-0434	EA	Note: Two required for 24 volt DC. 6.2 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9272)	132.85	22.88	
28 46 21 33-0434	EA	Note: Two required for 24 volt DC.			
28 46 21 33-0435		Interface Modules (28 46 21 33-0403)			
28 46 21 33-0436	EA	Supervised Individual Addressable Modules (Simplex 4090-9001)	109.30	22.88	
28 46 21 33-0437	EA	Note: Monitor modules for waterflow/tamper, etc. Relay Individual Addressable Modules (Simplex 4090-9002)	215.06	22.88	
28 46 21 33-0438	EA	Note: Control modules for gas shutdown, door holders, etc. Relay SPDT With LED MR-801/T (Simplex 2088-9032)	59.48	22.88	
28 46 21 33-0439	EA	Note: Interface relay for 120VAC SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815)	110.47	22.88	
28 46 21 33-0440	EA	Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817)	49.75	11.43	
28 46 21 33-0441	EA	Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818)	47.51	11.43	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0442 Pull Stations (28 46 21 33-0403)		
28 46 21 33-0443 EA Addressable Single Action Manual Pull Station (Simplex 4099-9001)	131.99	22.88
28 46 21 33-0444 EA N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101)	97.26	22.88
28 46 21 33-0445 EA N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102)	103.97	22.88
28 46 21 33-0446 EA Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103)	94.23	22.88
28 46 21 33-0447 EA N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104)	108.45	22.88
28 46 21 33-0448 EA N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105)	159.55	22.88
28 46 21 33-0449 EA Pre-Signal, N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107)	135.32	22.88
28 46 21 33-0450 EA Pre-Signal, N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108)	157.71	22.88
28 46 21 33-0451 EA Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754)	78.60	22.88
28 46 21 33-0452 EA Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755)	82.69	22.88
28 46 21 33-0453 EA Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756)	95.89	22.88
28 46 21 33-0454 EA N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758)	143.85	22.88
28 46 21 33-0455 EA Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759)	241.95	22.88
28 46 21 33-0456 EA Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762)	86.06	22.88
28 46 21 33-0457 EA Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178)	51.99	11.43
28 46 21 33-0458 Weatherproof Pull Stations (28 46 21 33-0403)		
28 46 21 33-0459 EA Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138)	131.05	27.45
28 46 21 33-0460 EA Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211)	81.74	11.43
28 46 21 33-0461 Heat / Smoke Sensor (28 46 21 33-0403)		
28 46 21 33-0462 EA 32 To 122 Degree F Heat Sensor (Simplex 4098-9733)	134.58	34.31
28 46 21 33-0463 EA Photoelectric Smoke Sensor (Simplex 4098-9714)	189.55	34.31
28 46 21 33-0464 EA Sensor Base With Relay Driver (Simplex 4098-9791)	346.41	11.43
28 46 21 33-0465 EA Standard Sensor Base (Simplex 4098-9792)	178.38	11.43
28 46 21 33-0466 EA Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737)	109.71	22.88
Note: Relay for 4098-9791		
28 46 21 33-0467 Explosion Proof Heat Detector (28 46 21 33-0403)		
28 46 21 33-0468 EA 135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488)	141.61	34.31
28 46 21 33-0469 EA Explosion Proof Backbox (Killark J LX-21)	87.83	11.43
28 46 21 33-0470 EA Explosion Proof Backbox Plugs (Killark CUP-2)	8.55	2.28
28 46 21 33-0471 Weatherproof Heat Detector (28 46 21 33-0403)		
28 46 21 33-0472 EA 194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490)	106.29	34.31
28 46 21 33-0473 200 Degree F Heat Detector (28 46 21 33-0403)		
28 46 21 33-0474 EA 194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604)	90.51	34.31
Note: Used in kiln rooms and kitchens.		
28 46 21 33-0475 Duct Smoke Sensor (28 46 21 33-0403)		
28 46 21 33-0476 EA Duct Sensor Housing (Simplex 4098-9755)	283.85	18.30
28 46 21 33-0477 EA Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756)	389.67	41.17
Note: Relay output for AHU shutdown.		
28 46 21 33-0478 EA 46" To 71" Duct Sampling Tube (Simplex 2098-9798)	46.24	11.43
Note: 25", 49", 73" or 97" sampling tube length.		
28 46 21 33-0479 EA Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806)	112.96	34.31
28 46 21 33-0480 Interior Horn (28 46 21 33-0403)		
28 46 21 33-0481 EA Red With White "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850)	105.61	34.31
28 46 21 33-0482 EA White With Red "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853)	105.61	34.31
28 46 21 33-0483 Interior Horn Strobe (28 46 21 33-0403)		
28 46 21 33-0484 EA Wall Mounted Horn Strobe, 75Cd, Red (Simplex 4903-9426)	140.54	34.31
28 46 21 33-0485 EA Wall Mounted Horn Strobe, 110Cd, Red (Simplex 4903-9427)	140.54	34.31
28 46 21 33-0486 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127)	132.57	34.31
28 46 21 33-0487 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128)	132.57	34.31
28 46 21 33-0488 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129)	132.57	34.31
28 46 21 33-0489 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130)	132.57	34.31
28 46 21 33-0490 EA Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131)	135.24	34.31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0491	EA	Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132).....	135.24	34.31
28 46 21 33-0492	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139).....	139.94	34.31
28 46 21 33-0493	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140).....	137.77	34.31
28 46 21 33-0494	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141).....	139.94	34.31
28 46 21 33-0495	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142).....	137.77	34.31
28 46 21 33-0496	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227).....	132.57	34.31
28 46 21 33-0497	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228).....	132.57	34.31
28 46 21 33-0498	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229).....	132.57	34.31
28 46 21 33-0499	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230).....	132.57	34.31
28 46 21 33-0500 Interior Strobe (28 46 21 33-0403)				
28 46 21 33-0501	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101).....	115.64	34.31
28 46 21 33-0502	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	115.64	34.31
28 46 21 33-0503	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103).....	115.61	34.31
28 46 21 33-0504	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	115.64	34.31
28 46 21 33-0505	EA	Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105).....	125.77	34.31
28 46 21 33-0506	EA	Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106).....	125.77	34.31
28 46 21 33-0507	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109).....	126.41	34.31
28 46 21 33-0508	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	128.18	34.31
28 46 21 33-0509	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111).....	128.18	34.31
28 46 21 33-0510	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	128.18	34.31
28 46 21 33-0511	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	115.64	34.31
28 46 21 33-0512	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	115.64	34.31
28 46 21 33-0513	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	115.64	34.31
28 46 21 33-0514	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	115.64	34.31
28 46 21 33-0515 Interior Speakers (28 46 21 33-0403)				
28 46 21 33-0516	EA	Red With White "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716).....	97.04	34.31
28 46 21 33-0517	EA	White With Red "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717).....	97.04	34.31
28 46 21 33-0518	EA	Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721).....	97.04	34.31
28 46 21 33-0519 Interior Speaker Strobe (28 46 21 33-0403)				
28 46 21 33-0520	EA	Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151).....	148.43	34.31
28 46 21 33-0521	EA	White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153).....	148.43	34.31
28 46 21 33-0522 Surge Suppressors (28 46 21 33-0403)				
28 46 21 33-0523	EA	Overvoltage Suppressor (Simplex 2081-9044).....	89.11	6.86
28 46 21 33-0524	EA	Isolated Loop Circuit Protector (Simplex 2081-9028).....	58.09	6.86
28 46 21 33-0525	EA	120 VAC, 20 Amp Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A).....	187.37	6.86
28 46 21 33-0526	EA	24 VAC Data And Loop Circuit Surge Protector (Ditek DTK-2MHLP24B).....	66.08	6.86
28 46 21 33-0527	EA	Mounting Base For Two DTK-2MHLP (Ditek DTK-2MB).....	100.05	11.43
28 46 21 33-0528	EA	120 VAC, 22,500 Amp, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW).....	71.28	6.86
28 46 21 33-0529	EA	<105 VAC, 9,000 Amp, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP).....	54.22	6.86
28 46 21 33-0530 Boxes And Adapters (28 46 21 33-0403)				
28 46 21 33-0531	EA	Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921).....	47.51	11.43
28 46 21 33-0532	EA	Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925).....	45.27	11.43
28 46 21 33-0533	EA	Red, Surface Mount Adapter Skirt (Simplex 4905-9937).....	40.88	11.43
28 46 21 33-0534	EA	White, Surface Mount Adapter Skirt (Simplex 4905-9940).....	34.65	11.43
28 46 21 33-0535 Accessories (28 46 21 33-0403)				



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0536 EA End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008)	25.48	11.43
28 46 21 33-0537 Siemens Fire Alarm (28 46 21 33)		
28 46 21 33-0538 Conventional Control Panels (28 46 21 33-0537)		
28 46 21 33-0539 SXL Batteries And Power Supplies (28 46 21 33-0538)		
28 46 21 33-0540 EA 6 Amp Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3)	747.46	45.75
28 46 21 33-0541 EA Main Board Only For PAD-3 (Siemens PAD-3-MB)	605.98	45.75
28 46 21 33-0542 Digital Fire Communicators (28 46 21 33-0538)		
28 46 21 33-0543 EA Four Channel Digital Slave Fire Communicator (Siemens 5129)	587.33	45.75
28 46 21 33-0544 Addressable Control Panels (28 46 21 33-0537)		
28 46 21 33-0545 Fireseeker Equipment (28 46 21 33-0544)		
28 46 21 33-0546 FS-250 System Panels (28 46 21 33-0545)		
28 46 21 33-0547 EA FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT)	1,954.21	457.49
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.		
28 46 21 33-0548 EA FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT)	2,386.37	457.49
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 21 33-0549 EA FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT)	1,465.10	365.98
Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 21 33-0550 EA Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON)	1,956.78	457.49
28 46 21 33-0551 FS-250 Optional Modules (28 46 21 33-0545)		
28 46 21 33-0552 EA Main Board Module (Siemens FS-MB2)	752.61	45.75
28 46 21 33-0553 EA Display Board Module (Siemens FS-DB2)	580.81	22.88
28 46 21 33-0554 EA Device Loop Card (Siemens FS-DLC)	477.91	22.88
28 46 21 33-0555 EA Releasing Module (Siemens FS-REL)	218.10	22.88
28 46 21 33-0556 EA Remote LCD Annunciator (Siemens FS-RD2)	474.70	22.88
28 46 21 33-0557 EA Relay Processor Card (Siemens FS-RU2)	413.60	22.88
28 46 21 33-0558 EA Relay Expander Board (Siemens FS-RE8)	354.44	22.88
28 46 21 33-0559 EA Serial Annunciator Processor Card (Siemens FS-SAU2)	474.70	22.88
28 46 21 33-0560 EA 16 Output Annunciator Extender (Siemens FS-SAE16)	372.44	22.88
28 46 21 33-0561 EA Digital Alarm Communication Transmitter (Siemens FS-DACT)	339.65	22.88
28 46 21 33-0562 EA Municipal Tie Module (Siemens FS-MT)	290.13	22.88
28 46 21 33-0563 EA Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2)	276.07	
28 46 21 33-0564 EA Programming Cable Kit (Siemens CBL-UD)	72.40	11.43
28 46 21 33-0565 EA Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE)	131.28	22.88
28 46 21 33-0566 EA Releasing Power Transformer (Siemens FS-RPT-A)	133.21	22.88
28 46 21 33-0567 EA Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB)	147.20	18.30
28 46 21 33-0568 EA Cabinet Trim Kit (Siemens RD-CAB-TK)	231.24	11.43
28 46 21 33-0569 Firefinder Systems (28 46 21 33-0544)		
28 46 21 33-0570 XLS Basic Fire System Packages Without Backbox (28 46 21 33-0569)		
28 46 21 33-0571 EA 500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP)	6,558.64	457.49
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 33-0572 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP)	5,824.22	457.49
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 33-0573 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP)	5,824.22	457.49
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 33-0574 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD)	9,474.46	457.49
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
28 46 21 33-0575 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD)	9,779.29	457.49
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0576 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP).....	5,750.27	457.49
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 33-0577 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP).....	5,750.27	457.49
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 33-0578 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP).....	6,609.45	457.49
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 33-0579 Firefinder - XLS Basic System Equipment (28 46 21 33-0569)		
28 46 21 33-0580 EA Person Machine Interface With Central Processor (Siemens PMI).....	3,058.41	457.49
Note: Includes inner door.		
28 46 21 33-0581 EA Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC).....	4,956.20	457.49
Note: Includes inner door.		
28 46 21 33-0582 EA Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT).....	3,058.41	457.49
Note: Includes inner door.		
28 46 21 33-0583 EA Two Slot Card Cage (Siemens CC-2).....	364.73	22.88
28 46 21 33-0584 EA Five Slot Card Cage (Siemens CC-5).....	609.75	22.88
28 46 21 33-0585 EA Four Circuit Zone Indicating Card (Siemens ZIC-4A).....	866.99	22.88
28 46 21 33-0586 EA Eight Circuit Zone Indicating Card (Siemens ZIC-8B).....	904.93	22.88
28 46 21 33-0587 EA Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C).....	292.70	22.88
28 46 21 33-0588 EA Device Loop Card (Siemens DLC).....	1,025.83	22.88
Note: Interfaces with up to 252 detectors and devices.		
28 46 21 33-0589 EA Controllable Relay Card (Siemens CRC-6).....	585.31	22.88
Note: Provides six programmable relays.		
28 46 21 33-0590 EA 12 Amp Power Supply Charger Module (Siemens PSC-12).....	2,189.20	22.88
28 46 21 33-0591 EA Person Machine Interface With Central Processor And GPMI-UK Software Upgrade Kit (Siemens GPMI).....	3,916.31	457.49
Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		
28 46 21 33-0592 EA Network Interface Card (Siemens NIC-C).....	683.06	22.88
Note: Provides HNET Or XNET communication between enclosures.		
28 46 21 33-0593 EA 12 Amp Power Supply Extender (Siemens PSX-12).....	1,822.64	22.88
Note: Extends PSC-12 with an additional 24 volt DC.		
28 46 21 33-0594 EA Power Termination Board (Siemens PTB).....	315.85	22.88
Note: Used with systems requiring more than one PSX-12.		
28 46 21 33-0595 EA Conventional Detector Card (Siemens CDC-4).....	658.62	22.88
28 46 21 33-0596 EA Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	1,280.50	22.88
28 46 21 33-0597 EA Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS).....	4,578.32	22.88
28 46 21 33-0598 Remote Lobby Enclosure (28 46 21 33-0569)		
28 46 21 33-0599 EA 14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2).....	882.04	91.50
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 33-0600 EA 24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4).....	1,126.42	91.50
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 33-0601 EA Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP).....	144.14	22.88
Note: Required to mount up to four SIM-16 or OCM-16 modules.		
28 46 21 33-0602 EA Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP).....	156.36	22.88
Note: Required to mount up to eight SIM-16 or OCM-16 modules.		
28 46 21 33-0603 Battery Enclosures (28 46 21 33-0569)		
28 46 21 33-0604 EA Enclosure For 100 Amp Hours Batteries (Siemens CAB-BATT).....	563.06	91.50
28 46 21 33-0605 Graphic Annunciator Output Drivers And Inputs (28 46 21 33-0569)		
28 46 21 33-0606 EA Output Control Module (Siemens OCM-16).....	425.82	22.88
28 46 21 33-0607 EA Supervised Input Module (Siemens SIM-16).....	425.82	22.88
28 46 21 33-0608 Remote LCD Displays (28 46 21 33-0569)		
28 46 21 33-0609 EA Remote LED/LCD System Status Display (Siemens SSD).....	994.50	68.62
Note: No control or menu capability.		
28 46 21 33-0610 EA Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C).....	1,117.33	68.62
28 46 21 33-0611 Voice Equipment (28 46 21 33-0569)		
28 46 21 33-0612 EA 40W Zone Amplifier Card (Siemens ZAC-40).....	966.67	22.88
28 46 21 33-0613 EA 180W Zone Amplifier Module (Siemens ZAM-180).....	2,128.75	22.88
28 46 21 33-0614 EA Live Voice Module (Siemens LVM).....	903.00	22.88
Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.		
28 46 21 33-0615 MXL Series Equipment (28 46 21 33-0544)		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0616 MXL Optional Equipment ^(28 46 21 33-0615)		
28 46 21 33-0617 EA Two Circuit Analog Loop Driver (Siemens ALD-21).....	1,051.01	45.75
28 46 21 33-0618 EA CXL/MXL Interface Module (Siemens CMI-300).....	2,669.60	22.88
28 46 21 33-0619 EA Four Relay Programmable Relay Module (Siemens CRM-4).....	467.62	22.88
28 46 21 33-0620 EA Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4).....	562.16	22.88
28 46 21 33-0621 EA Remote Conventional Zone Module (Siemens CZM-1B6).....	218.74	22.88
28 46 21 33-0622 EA Short Circuit Line Isolator Module (Siemens Model LIM-1).....	139.64	22.88
28 46 21 33-0623 EA Four Circuit Conventional Zone Module (Siemens CZM-4).....	547.37	22.88
28 46 21 33-0624 EA 12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD).....	210.10	34.31
28 46 21 33-0625 EA Lexan Window For RCC (Siemens GENBOX-WD).....	140.13	18.30
28 46 21 33-0626 EA Input Driver Module (Siemens MID-16).....	362.80	22.88
28 46 21 33-0627 EA Programmable Output Driver Module (Siemens MOD-16).....	362.80	22.88
28 46 21 33-0628 EA MXL Output/Input Module (Siemens MOI-7).....	573.74	22.88
28 46 21 33-0629 EA Two Slot Network Option Module Card Cage (Siemens MOM-2).....	310.71	22.88
28 46 21 33-0630 EA Four Slot Network Option Module Card Cage (Siemens MOM-4).....	482.41	22.88
28 46 21 33-0631 EA 12 Amp, 220 VAC Power Supply For MXL (Siemens MPS-12/220).....	1,192.58	68.62
28 46 21 33-0632 EA 12 Amp, 240 VAC Power Supply For MXL (Siemens MPS-12/240).....	1,192.58	68.62
28 46 21 33-0633 EA Network Interface Module (Siemens NIM-1W).....	850.27	22.88
28 46 21 33-0634 EA U.L. Listed Parallel Printer (Siemens PAL-1).....	2,240.91	91.50
28 46 21 33-0635 EA Peripheral Interface Module, Model PIM-1 (Siemens 500-691324).....	257.33	22.88
28 46 21 33-0636 EA Surface Mounted Remote Command Center (Siemens RCC-1).....	2,628.82	457.49
28 46 21 33-0637 EA Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL).....	318.51	45.75
28 46 21 33-0638 EA Flush Mounted Remote Command Center (Siemens RCC-1F).....	2,628.82	457.49
28 46 21 33-0639 EA Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL).....	326.23	45.75
28 46 21 33-0640 EA Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2).....	2,072.54	457.49
28 46 21 33-0641 EA MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3).....	2,991.53	457.49
28 46 21 33-0642 EA RCC-2/RSE-1 Trim Ring (Siemens RCF-1).....	51.82	11.43
28 46 21 33-0643 EA Remote Diagnostics Module For MXL (Siemens RDM-MXL).....	3,435.62	45.75
28 46 21 33-0644 EA Remote Diagnostics Module For PC (Siemens RDM-PC).....	7,292.29	45.75
28 46 21 33-0645 EA Releasing End Of Line Module (Siemens REL-EOL).....	115.85	22.88
28 46 21 33-0646 EA 36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC).....	2,198.94	45.75
28 46 21 33-0647 EA 36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL).....	2,100.54	45.75
28 46 21 33-0648 EA 8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1).....	1,148.28	91.50
28 46 21 33-0649 Complete MXL And MXLV System Packages Without Enclosure ^(28 46 21 33-0615)		
28 46 21 33-0650 EA MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB-2, One MPS-6, One MOM-2, One ALD-21 And One PIM-1 (Siemens MXL-SS-EP)..... Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-21 is a two circuit analog loop driver. PIM-1 is a peripheral interface module.	8,420.42	457.49
28 46 21 33-0651 EA MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM-2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP)..... Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.	10,830.76	457.49
28 46 21 33-0652 EA MXLV Demonstration Panel (Siemens MXLV DEMO).....	22,087.58	457.49
28 46 21 33-0653 MXL Basic System ^(28 46 21 33-0615)		
28 46 21 33-0654 EA MXL/MXLV Main Control Board (Siemens MMB-3).....	5,387.56	457.49
28 46 21 33-0655 EA MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL)..... Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.	6,827.46	457.49
28 46 21 33-0656 EA MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2).....	1,858.10	45.75
28 46 21 33-0657 EA MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5).....	2,322.41	45.75
28 46 21 33-0658 EA 6 Amp Power Supply For MXL (Siemens MPS-6).....	831.80	68.62
28 46 21 33-0659 EA 220/240 VAC Adapter Cable (Siemens CIA-12).....	64.68	11.43
28 46 21 33-0660 MXL/MXLV System Expansion Accessories ^(28 46 21 33-0615)		
28 46 21 33-0661 EA MXL Remote Power Supply Module (Siemens PSR-1).....	1,013.80	68.62
28 46 21 33-0662 EA Style 4 Communication Module (Siemens NET-4).....	212.31	22.88
28 46 21 33-0663 EA Style 7 Communication Module (Siemens NET-7).....	377.59	22.88
28 46 21 33-0664 EA MXL/MXLV-MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6).....	230.96	22.88
28 46 21 33-0665 Peripheral Devices ^(28 46 21 33-0544)		
28 46 21 33-0666 Thermal Detectors ^(28 46 21 33-0665)		
28 46 21 33-0667 EA Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R).....	100.13	34.31
28 46 21 33-0668 EA Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R).....	100.13	34.31
28 46 21 33-0669 EA 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F).....	100.13	34.31
28 46 21 33-0670 EA 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F).....	100.13	34.31
28 46 21 33-0671 EA Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP).....	148.36	34.31
28 46 21 33-0672 EA Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP).....	148.36	34.31
28 46 21 33-0673 EA Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP).....	343.22	34.31

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
28 46 21 33-0674	Beam Smoke Detector (28 46 21 33-0665)				
28 46 21 33-0675	EA Linear Beam Smoke Detector (Siemens PBA-1191)	1,576.85		34.31	
28 46 21 33-0676	EA Base For Linear Beam Smoke Detector (Siemens PBB-1191)	182.37		11.43	
28 46 21 33-0677	EA 20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192)	184.30		11.43	
28 46 21 33-0678	EA 10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193)	96.84		11.43	
28 46 21 33-0679	Bases For Detectors (28 46 21 33-0665)				
28 46 21 33-0680	EA Detector Base (Siemens DB-11)	32.53		11.43	
28 46 21 33-0681	EA Universal Base (Siemens DB-3S)	30.60		11.43	
28 46 21 33-0682	Manual Stations (28 46 21 33-0665)				
28 46 21 33-0683	EA Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP)	208.60		27.45	
28 46 21 33-0684	Addressable Devices (28 46 21 33-0544)				
28 46 21 33-0685	Intelligent Detectors And Devices For Firefinder XLS And FS-250 (28 46 21 33-0684)				
28 46 21 33-0686	EA Addressable Fireprint Fire Detector (Siemens HFP-11)	179.23		34.31	
28 46 21 33-0687	EA Addressable Thermal Fire Detector (Siemens HFPT-11)	156.72		34.31	
28 46 21 33-0688	EA Relay Base For H-Series Intelligent Detectors (Siemens DB-HR)	130.36		34.31	
28 46 21 33-0689	EA Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC)	92.41		34.31	
28 46 21 33-0690	EA Wall Mounted Remote Alarm Indicator (Siemens RL-HW)	92.41		34.31	
28 46 21 33-0691	EA Addressable Single Action Manual Pull Station (Siemens HMS-S)	181.44		22.88	
28 46 21 33-0692	EA Addressable Double Action Manual Pull Station (Siemens HMS-D)	173.73		22.88	
28 46 21 33-0693	EA Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S)	139.64		22.88	
28 46 21 33-0694	EA Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D)	168.58		22.88	
28 46 21 33-0695	EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R)	168.58		22.88	
28 46 21 33-0696	EA Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M)	130.00		22.88	
28 46 21 33-0697	EA Line Isolator Module (Siemens HLIM)	133.85		22.88	
28 46 21 33-0698	EA Remote Convention Zone Module (Siemens HZM)	193.02		22.88	
28 46 21 33-0699	EA Intelligent Control Point Module (Siemens HCP)	241.90		22.88	
28 46 21 33-0700	EA Handheld Programming And Testing Unit (Siemens DPU)	1,026.12			
28 46 21 33-0701	EA DPU Carrying Case (Siemens DPU-C1)	160.36			
28 46 21 33-0702	EA Label Printer And Carrying Case (Siemens DPU-PRT)	1,758.97		22.88	
28 46 21 33-0703	Air Duct Housings And Detectors (28 46 21 33-0684)				
28 46 21 33-0704	EA Air-Duct Housing (Siemens AD2-P)	195.44		18.30	
28 46 21 33-0705	EA Air-Duct Housing With Relay (Siemens AD2-XHR)	219.87		18.30	
28 46 21 33-0706	EA Weatherproof Enclosure For Duct Housing (Siemens WP-2000)	180.16		22.88	
28 46 21 33-0707	EA 6" To 1' Duct Sampling Tube (Siemens ST-10)	26.59		6.86	
28 46 21 33-0708	EA >1' To 3' Duct Sampling Tube (Siemens ST-25)	33.09		9.15	
28 46 21 33-0709	EA >3' To 5' Duct Sampling Tube (Siemens ST-50)	41.53		11.43	
28 46 21 33-0710	EA >5' To 10' Duct Sampling Tube (Siemens ST-100)	48.67		13.73	
28 46 21 33-0711	Intelligent Initiating Devices For MXL, MXL-LQ And MXLV (28 46 21 33-0684)				
28 46 21 33-0712	EA Addressable Fireprint Fire Detector (Siemens FP-11)	186.31		34.31	
28 46 21 33-0713	EA Addressable Thermal Fire Detector (Siemens FPT-11)	162.51		34.31	
28 46 21 33-0714	EA Intelligent Ionization Smoke Detector (Siemens ILI-1)	204.31		34.31	
28 46 21 33-0715	EA Addressable Single Action Manual Pull Station (Siemens MSI-10B)	176.94		22.88	
28 46 21 33-0716	EA Addressable Double Action Manual Pull Station (Siemens MSI-20B)	194.31		22.88	
28 46 21 33-0717	EA Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S)	178.87		22.88	
28 46 21 33-0718	EA Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D)	196.88		22.88	
28 46 21 33-0719	EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R)	196.88		22.88	
28 46 21 33-0720	Detector Universal Bases (28 46 21 33-0684)				
28 46 21 33-0721	EA Detector Base With Relay (Siemens DB-X11RS)	83.97		11.43	
28 46 21 33-0722	EA PE-11 To DB-3 Base Adapter (Siemens DB-ADPT)	45.39		11.43	
28 46 21 33-0723	EA Locking Kit (Siemens LK-11)	9.66			
28 46 21 33-0724	EA Detector Base With Relay (Siemens DB-X3RS)	83.97		11.43	
28 46 21 33-0725	EA Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11)	96.84		11.43	
28 46 21 33-0726	EA Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX)	43.46		11.43	
28 46 21 33-0727	EA Flush Trim Ring For Bases (Siemens RA-ADB)	21.45		6.86	
28 46 21 33-0728	EA Seal For DB-11 (Siemens DB11-SEAL)	11.21			
28 46 21 33-0729	EA Gasket For DB-11 (Siemens DB-SEAL)	12.06			
28 46 21 33-0730	EA Detector Guard Housing (Siemens DGH-11)	120.63		11.43	
28 46 21 33-0731	EA Small Detector Base (Siemens DB-11E)	35.10		11.43	
28 46 21 33-0732	EA Audible Base For Series 3 (Siemens ADBI-60A)	108.41		11.43	
28 46 21 33-0733	EA Base Plug (Siemens DB-11-DP)	9.64			
28 46 21 33-0734	Air Duct Smoke Detectors (28 46 21 33-0684)				
28 46 21 33-0735	EA Intelligent Remote Duct Relay Module (Siemens DA-X3SR)	97.84		22.88	
28 46 21 33-0736	EA Weatherproof Enclosure For Duct Housing (Siemens EAD-3)	461.84		22.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0737 Notification Devices (28 46 21 33-0544)		
28 46 21 33-0738 Synchronization Control Devices (28 46 21 33-0737)		
28 46 21 33-0739 EA Dual Synchronization Control Module (Siemens DSC)	139.64	22.88
28 46 21 33-0740 Stand Alone Strobes (28 46 21 33-0737)		
28 46 21 33-0741 EA Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R)	123.28	34.31
28 46 21 33-0742 EA Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R)	132.93	34.31
28 46 21 33-0743 EA Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR)	123.28	34.31
28 46 21 33-0744 EA Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR)	132.93	34.31
28 46 21 33-0745 EA Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW)	132.93	34.31
28 46 21 33-0746 EA Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW)	123.28	34.31
28 46 21 33-0747 EA Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R)	140.00	34.31
28 46 21 33-0748 EA Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP)	134.86	34.31
28 46 21 33-0749 EA Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP)	134.86	34.31
28 46 21 33-0750 EA Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP)	143.22	34.31
28 46 21 33-0751 EA Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP)	143.22	34.31
28 46 21 33-0752 Horns And Strobes (28 46 21 33-0737)		
28 46 21 33-0753 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R)	161.23	34.31
28 46 21 33-0754 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R)	169.59	34.31
28 46 21 33-0755 EA Wall Mounted Horn (Siemens SE-R)	100.13	34.31
28 46 21 33-0756 EA Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR)	161.23	34.31
28 46 21 33-0757 EA Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR)	169.59	34.31
28 46 21 33-0758 EA Ceiling Mounted Horn (Siemens SE-R)	103.99	34.31
28 46 21 33-0759 EA Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R)	161.23	34.31
28 46 21 33-0760 EA Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R)	169.59	34.31
28 46 21 33-0761 EA Wall Mounted Low Profile Horn (Siemens SEF-R)	100.13	34.31
28 46 21 33-0762 EA Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW)	161.23	34.31
28 46 21 33-0763 EA Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW)	169.59	34.31
28 46 21 33-0764 EA Ceiling Mounted Low Profile Horn (Siemens SEF-CR)	103.99	34.31
28 46 21 33-0765 EA Mini Horn (Siemens MH-R)	85.98	34.31
28 46 21 33-0766 EA Indoor/Outdoor Multi Tone Horn (Siemens MTH-R)	105.28	34.31
28 46 21 33-0767 EA Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R)	152.87	34.31
28 46 21 33-0768 EA Industrial Tri-Tone Horn (Siemens ASR)	406.25	34.31
28 46 21 33-0769 EA Wall Mounted Horn (Siemens HS-R)	105.28	34.31
28 46 21 33-0770 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R)	153.51	34.31
28 46 21 33-0771 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R)	163.80	34.31
28 46 21 33-0772 EA 6" Motor Bell (Siemens MBDC-6)	118.14	34.31
28 46 21 33-0773 EA 10" Motor Bell (Siemens MBDC-10)	127.79	34.31
28 46 21 33-0774 Mounting Accessories (28 46 21 33-0737)		
28 46 21 33-0775 EA Concealed Conduit Adapter Plate (Siemens APS-R)	30.60	11.43
28 46 21 33-0776 EA 4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R)	30.60	11.43
28 46 21 33-0777 EA 4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R)	31.24	11.43
28 46 21 33-0778 EA Red Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX)	46.67	11.43
28 46 21 33-0779 EA White Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX-W)	38.31	11.43
28 46 21 33-0780 EA Surface Mounted Speaker Backbox (Siemens SBBS-R)	40.24	11.43
28 46 21 33-0781 EA Surface Mounted Speaker Backbox (Siemens SBL2S-R)	42.82	11.43
28 46 21 33-0782 EA Square Semi-Flush Extension Ring (Siemens SERS-R)	35.10	11.43
28 46 21 33-0783 EA Semi-Flush Plate (Siemens SFPS-R)	29.95	11.43
28 46 21 33-0784 EA Square Surface Backbox (Siemens SHBBS-R)	35.10	11.43
28 46 21 33-0785 EA Horn Adapter Plate (Siemens SHMPS-R)	33.81	11.43
28 46 21 33-0786 EA Ceiling Speaker Extension Ring (Siemens SPEXT-R)	30.60	11.43
28 46 21 33-0787 EA Wall Mounted Surface Mounted Speaker Backbox (Siemens SPSB-R)	38.31	11.43
28 46 21 33-0788 EA Wall Mounted Surface Mounted Speaker/Strobe Backbox (Siemens SPSSB-R)	40.24	11.43
28 46 21 33-0789 EA Weatherproof Speaker Backbox (Siemens WBBS-R)	38.96	11.43
28 46 21 33-0790 EA Weatherproof Speaker Backbox With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B)	42.82	11.43
28 46 21 33-0791 EA Weatherproof Flush Plate (Siemens WFPAS-R)	42.82	11.43
28 46 21 33-0792 EA Weatherproof Horn Flush Plate (Siemens WFPS-R)	42.82	11.43
28 46 21 33-0793 EA Weatherproof Horn Backbox (Siemens WPBBS-R)	40.24	11.43
28 46 21 33-0794 EA Weatherproof Strobe Backbox (Siemens WPSBBS-R)	40.24	11.43
28 46 21 33-0795 EA Surface Mounted Weatherproof Backbox Kit (Siemens WPS-KIT)	30.60	11.43
28 46 21 33-0796 EA Z Series Backbox (Siemens ZBB-R)	33.81	11.43
28 46 21 33-0797 Door Holders (28 46 21 33-0737)		
28 46 21 33-0798 EA 120 VAC Concealed Wiring Fire Door Holder (Siemens SDH-2A)	234.54	34.31
28 46 21 33-0799 EA 24 VDC Concealed Wiring Fire Door Holder (Siemens SDH-2D)	234.54	34.31
28 46 21 33-0800 Voice Equipment (28 46 21 33-0544)		
28 46 21 33-0801 Voicecom (28 46 21 33-0800)		

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0802 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM)	3,561.32	457.49
28 46 21 33-0803 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L)	5,522.77	457.49
28 46 21 33-0804 Johnson Controls Fire Alarm (28 46 21 33)		
28 46 21 33-0805 EA Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J)	143.60	34.31
28 46 21 33-0806 EA Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J)	142.21	34.31
28 46 21 33-0807 EA Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ)	174.15	34.31
28 46 21 33-0808 EA Accclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ)	173.70	34.31
28 46 21 33-0809 EA 411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD)	458.15	45.75
28 46 21 33-0810 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ)	136.48	34.31
28 46 21 33-0811 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J)	123.27	34.31
28 46 21 33-0812 EA Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ)	120.46	34.31
28 46 21 33-0813 EA Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J)	335.86	34.31
28 46 21 33-0814 EA 100 Watt Audio Amplifier @ 70.7 VRMS With Built-in Tone Generator, 120 VAC. (Johnson Controls, Inc. #AA-100)	1,594.24	68.62
28 46 21 33-0815 EA AUDIO Amplifier, 100 Watt, 230 VAC (Johnson Controls, Inc. #AA-100E)	1,545.52	68.62
28 46 21 33-0816 EA 120 Watt Audio Amplifier @ 25 VRMS With Built-in Tone Generator, 120 VAC (Johnson Controls, Inc. #AA-120)	1,571.80	68.62
28 46 21 33-0817 EA AUDIO Amplifier, 120 Watt, 230 VAC (Johnson Controls, Inc. #AA-120E)	1,506.18	68.62
28 46 21 33-0818 EA 30 Watt Audio Amplifier @ 25 VRMS, 120 VAC (Johnson Controls, Inc. #AA-30)	747.97	68.62
28 46 21 33-0819 EA AUDIO Amplifier, 30 Watt, 230 VAC (Johnson Controls, Inc. #AA-30E)	747.97	68.62
28 46 21 33-0820 EA Annunciator Control Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT)	730.22	22.88
28 46 21 33-0821 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT)	759.15	22.88
28 46 21 33-0822 EA Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A)	560.09	22.88
28 46 21 33-0823 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A)	560.09	22.88
28 46 21 33-0824 EA Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R)	397.83	22.88
28 46 21 33-0825 EA Charger Power Supply - 6 Or 10 Amps; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610)	1,271.61	45.75
28 46 21 33-0826 EA Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT)	560.09	22.88
28 46 21 33-0827 EA Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT)	581.83	22.88
28 46 21 33-0828 EA Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A)	503.03	22.88
28 46 21 33-0829 EA Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A)	503.03	22.88
28 46 21 33-0830 EA Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX)	91.32	20.58
28 46 21 33-0831 EA Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM)	774.01	45.75
28 46 21 33-0832 EA Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS)	1,664.98	45.75
28 46 21 33-0833 EA Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM)	774.01	45.75
28 46 21 33-0834 EA Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS)	1,664.98	45.75
28 46 21 33-0835 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP)	34.68	11.43
28 46 21 33-0836 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI)	85.44	11.43
28 46 21 33-0837 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB)	80.85	11.43
28 46 21 33-0838 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401)	36.64	11.43
28 46 21 33-0839 EA Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J)	33.38	11.43
28 46 21 33-0840 EA Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100)	569.49	45.75
28 46 21 33-0841 EA Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224)	1,317.36	68.62
28 46 21 33-0842 EA Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S)	1,391.12	68.62
28 46 21 33-0843 EA Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK)	155.64	11.43
28 46 21 33-0844 EA Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK)	106.48	11.43
28 46 21 33-0845 EA Digital Audio Amplifier, 50 Watt, 25 VRMS (Johnson Controls, Inc. #DAA-5025)	1,318.44	68.62
28 46 21 33-0846 EA Digital Audio Amplifier, 50 Watt, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F)	1,219.01	68.62
28 46 21 33-0847 EA Digital Audio Amplifier, 50 Watt, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF)	1,219.01	68.62
28 46 21 33-0848 EA Digital Audio Amplifier, 50 Watt, 70 VRMS (Johnson Controls, Inc. #DAA-5070)	1,425.85	68.62
28 46 21 33-0849 EA Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E)	1,317.36	68.62
28 46 21 33-0850 EA Digital Audio Amplifier, 50 Watt, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F)	1,317.36	68.62
28 46 21 33-0851 EA Digital Audio Amplifier, 50 Watt, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF)	1,317.36	68.62
28 46 21 33-0852 EA Digital Audio Amplifier, 75 Watt, 25 VRMS (Johnson Controls, Inc. #DAA-7525)	1,570.24	68.62
28 46 21 33-0853 EA Digital Audio Amplifier, 75 Watt, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F)	1,570.24	68.62
28 46 21 33-0854 EA Digital Audio Amplifier, 75 Watt, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF)	1,570.24	68.62
28 46 21 33-0855 EA Innovairflex Intelligent. (Johnson Controls, Inc. #DNR)	169.73	22.88
28 46 21 33-0856 EA Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW)	255.72	22.88
28 46 21 33-0857 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1)	26.14	9.15
28 46 21 33-0858 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5)	28.16	9.15



Electronic Safety And Security			28
Life Safety			28 40
Fire Detection And Alarm			28 46

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0859 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10)	65.28	13.73
28 46 21 33-0860 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3)	32.69	9.15
28 46 21 33-0861 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5)	40.43	11.43
28 46 21 33-0862 EA Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO)	257.18	22.88
28 46 21 33-0863 EA Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD)	430.79	45.75
28 46 21 33-0864 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4)	370.48	68.62
28 46 21 33-0865 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4)	502.91	68.62
28 46 21 33-0866 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4)	547.17	68.62
28 46 21 33-0867 EA Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4)	278.21	9.15
28 46 21 33-0868 EA Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4)	417.56	9.15
28 46 21 33-0869 EA Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4)	458.54	9.15
28 46 21 33-0870 EA 6.0 Amps, 120 VAC Remote Charger Power Supply. Includes Main Printed Circuit Board, Transformers And Installation Instructions (Johnson Controls, Inc. #FCPS-24S6)	754.16	91.50
28 46 21 33-0871 EA 8.0 Amps, 120 VAC Remote Charger Power Supply. Includes Main Printed Circuit Board, Transformers And Installation Instructions (Johnson Controls, Inc. #FCPS-24S8)	758.94	91.50
28 46 21 33-0872 EA 80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G)	712.56	68.62
28 46 21 33-0873 EA Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS)	131.06	11.43
28 46 21 33-0874 EA Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R)	367.33	22.88
28 46 21 33-0875 EA Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980)	203.26	34.31
28 46 21 33-0876 EA Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996)	168.38	34.31
28 46 21 33-0877 EA Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998)	176.32	34.31
28 46 21 33-0878 EA Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200)	1,332.26	45.75
28 46 21 33-0879 EA Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S)	1,623.31	45.75
28 46 21 33-0880 EA Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J)	494.12	22.88
28 46 21 33-0881 EA IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amp Power Supply, 120 VAC, Includes Door, Dress Panel And Back Box, Black (Johnson Controls, Inc. #IFC-320)	3,448.48	365.98
28 46 21 33-0882 EA Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG)	1,637.44	45.75
28 46 21 33-0883 EA Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI)	21,864.41	548.98
28 46 21 33-0884 EA Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F)	23,831.26	548.98
28 46 21 33-0885 EA Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP)	26,781.54	548.98
28 46 21 33-0886 EA Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W)	23,831.26	548.98
28 46 21 33-0887 EA Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B)	163.16	13.73
28 46 21 33-0888 EA Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB)	182.84	13.73
28 46 21 33-0889 EA Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B)	198.57	13.73
28 46 21 33-0890 EA Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B)	365.75	13.73
28 46 21 33-0891 EA Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB)	120.57	9.15
28 46 21 33-0892 EA Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black. (Johnson Controls, Inc. #JABS-2D)	190.98	20.58
28 46 21 33-0893 EA Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red. (Johnson Controls, Inc. #JABS-2DR)	202.26	20.58
28 46 21 33-0894 EA Surface (or Semi-flush) Mount INA, ACS, Or SCS Backbox, Black. (Johnson Controls, Inc. #JABS-4D)	363.73	20.58
28 46 21 33-0895 EA Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4)	357.59	9.15
28 46 21 33-0896 EA Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4)	480.52	9.15
28 46 21 33-0897 EA Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4)	593.61	9.15
28 46 21 33-0898 EA Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX)	176.22	22.88
28 46 21 33-0899 EA Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4)	81.55	9.15
28 46 21 33-0900 EA JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D)	3,441.04	365.98
28 46 21 33-0901 EA Central Processing Unit For The JCPU2-640 With Integral 120 VAC Power Supply, Includes CHS2-M2 Chassis (Johnson Controls, Inc. #JCPU2-640)	2,488.89	274.49
28 46 21 33-0902 EA Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D)	4,417.39	365.98
28 46 21 33-0903 EA Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640)	4,207.40	274.49
28 46 21 33-0904 EA Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E)	3,066.83	274.49
28 46 21 33-0905 EA Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM)	1,625.68	34.31
28 46 21 33-0906 EA Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF)	1,642.10	34.31
28 46 21 33-0907 EA Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF)	1,642.10	34.31
28 46 21 33-0908 EA Annunciator, Network Control. (Johnson Controls, Inc. #JNCA)	1,945.76	45.75
28 46 21 33-0909 EA Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems, The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. Mounting Options Include: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D). (Johnson Controls, Inc. #JNCA-2)	1,652.19	45.75
28 46 21 33-0910 EA Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP)	1,532.41	274.49
28 46 21 33-0911 EA 160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD-160)	1,179.78	45.75
28 46 21 33-0912 EA 80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80)	974.20	45.75

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0913 EA Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC-3030 Only. (Johnson Controls, Inc. #LCM-320).....	1,555.22	45.75
28 46 21 33-0914 EA Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32).....	480.16	11.43
28 46 21 33-0915 EA Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24).....	156.95	9.15
28 46 21 33-0916 EA Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48).....	192.36	9.15
28 46 21 33-0917 EA Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32).....	387.74	11.43
28 46 21 33-0918 EA Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	707.35	11.43
28 46 21 33-0919 EA Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320).....	1,277.50	11.43
28 46 21 33-0920 EA Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ).....	104.89	11.43
28 46 21 33-0921 EA Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	164.09	11.43
28 46 21 33-0922 EA Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry-contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	83.44	11.43
28 46 21 33-0923 EA Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	115.02	11.43
28 46 21 33-0924 EA Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devises. (Johnson Controls, Inc. #M301MJ).....	91.73	11.43
28 46 21 33-0925 EA Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	146.35	11.43
28 46 21 33-0926 EA Addressable Firephone Control Module With Flashscan. (Johnson Controls, Inc. #M500FPJ).....	166.18	11.43
28 46 21 33-0927 EA SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	95.95	11.43
28 46 21 33-0928 EA Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W).....	1,358.87	34.31
28 46 21 33-0929 EA Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F).....	1,205.20	22.88
28 46 21 33-0930 EA Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W).....	1,114.73	22.88
28 46 21 33-0931 EA Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO).....	43.57	4.58
28 46 21 33-0932 EA Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-F).....	976.47	22.88
28 46 21 33-0933 EA Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-W).....	930.32	22.88
28 46 21 33-0934 EA NFV-25/50. (Johnson Controls, Inc. #NFV-25/50).....	2,369.45	45.75
28 46 21 33-0935 EA NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U).....	662.76	22.88
28 46 21 33-0936 EA Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S).....	182.52	9.15
28 46 21 33-0937 EA Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1).....	422.41	22.88
28 46 21 33-0938 EA Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA).....	422.41	22.88
28 46 21 33-0939 EA Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1).....	114.68	9.15
28 46 21 33-0940 EA SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB).....	31.39	4.58
28 46 21 33-0941 EA SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC).....	31.39	4.58
28 46 21 33-0942 EA Strobe, Standard, 12/24 VDC, Red (Johnson Controls, Inc. #SCR).....	127.63	34.31
28 46 21 33-0943 EA Strobe, HI, 12/24 VDC, Red (Johnson Controls, Inc. #SCRH).....	141.39	34.31
28 46 21 33-0944 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK).....	166.28	38.89
28 46 21 33-0945 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK).....	164.31	38.89
28 46 21 33-0946 EA Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8).....	1,027.76	91.50
28 46 21 33-0947 EA Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L).....	811.39	91.50
28 46 21 33-0948 EA Strobe, Standard, 12/24 VDC, White (Johnson Controls, Inc. #SCW).....	127.63	34.31
28 46 21 33-0949 EA Strobe, HI, 12/24 VDC, Red (Johnson Controls, Inc. #SCWH).....	141.39	34.31
28 46 21 33-0950 EA Strobe, Standard, 12/24 VDC, White (Johnson Controls, Inc. #SCW-P).....	127.63	34.31
28 46 21 33-0951 EA Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500).....	24.54	9.15
28 46 21 33-0952 EA SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON).....	24.93	4.58
28 46 21 33-0953 EA SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP).....	28.09	4.58
28 46 21 33-0954 EA SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS).....	24.96	4.58
28 46 21 33-0955 EA Strobe, Standard, 12/24 VDC, Red (Johnson Controls, Inc. #SR).....	118.14	34.31
28 46 21 33-0956 EA Strobe, HI, 12/24 VDC, Red (Johnson Controls, Inc. #SRH).....	141.39	34.31
28 46 21 33-0957 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK).....	166.28	38.89
28 46 21 33-0958 EA Strobe, HI, 12/24 VDC, Red (Johnson Controls, Inc. #SRH-P).....	141.39	34.31
28 46 21 33-0959 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK).....	164.31	38.89
28 46 21 33-0960 EA Strobe, Standard, 12/24 VDC, Red (Johnson Controls, Inc. #SR-P).....	127.63	34.31
28 46 21 33-0961 EA Strobe, Standard, 12/24 VDC, White (Johnson Controls, Inc. #SW).....	127.63	34.31
28 46 21 33-0962 EA Strobe, HI, 12/24 VDC, White (Johnson Controls, Inc. #SWH).....	141.39	34.31
28 46 21 33-0963 EA Strobe, HI, 12/24 VDC, White (Johnson Controls, Inc. #SWH-P).....	141.39	34.31
28 46 21 33-0964 EA Strobe, Standard, 12/24 VDC, White (Johnson Controls, Inc. #SW-P).....	127.63	34.31
28 46 21 33-0965 EA Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1).....	159.57	11.43
28 46 21 33-0966 EA Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT).....	701.95	45.75
28 46 21 33-0967 EA Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW).....	186.80	45.75
28 46 21 33-0968 EA Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW).....	81.44	22.88
28 46 21 33-0969 EA Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV).....	81.44	22.88
28 46 21 33-0970 EA Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR).....	141.05	22.88
28 46 21 33-0971 EA Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH).....	152.45	22.88
28 46 21 33-0972 EA Speaker Strobe, Red, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCRHV).....	152.45	22.88
28 46 21 33-0973 EA Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV).....	136.52	22.88
28 46 21 33-0974 EA Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK).....	182.17	22.88
28 46 21 33-0975 EA Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW).....	141.05	22.88
28 46 21 33-0976 EA Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW).....	81.44	22.88
28 46 21 33-0977 EA Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR).....	81.44	22.88
28 46 21 33-0978 EA Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH).....	152.45	22.88
28 46 21 33-0979 EA Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR).....	141.05	22.88
28 46 21 33-0980 EA Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV).....	141.05	22.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0981 Honeywell Fire Alarm (28 46 21 33)		
28 46 21 33-0982 Notifier Fire Alarm (28 46 21 33-0981)		
28 46 21 33-0983 Fire Alarm Control Panel And Accessories (28 46 21 33-0982)		
28 46 21 33-0984 EA NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D)	4,152.04	457.49
28 46 21 33-0985 EA NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640)	3,478.90	457.49
28 46 21 33-0986 EA Black, 120 VAC, Intelligent Fire Alarm Control Panel (Notifier NFS-320)	4,144.12	457.49
28 46 21 33-0987 EA Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 VAC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C)	4,269.28	457.49
28 46 21 33-0988 EA Black, 240 VAC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E)	4,163.69	457.49
28 46 21 33-0989 EA Red, 120 VAC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R)	4,163.69	457.49
28 46 21 33-0990 EA Two-Tone Sequential Module (Notifier 2TTM)	214.35	22.88
28 46 21 33-0991 EA 5', Not Low Loss, Antenna Cable (Notifier 7626-5C)	64.17	4.58
28 46 21 33-0992 EA 25', Low Loss, Antenna Cable (Notifier 7626-25HC)	124.78	9.15
28 46 21 33-0993 EA 50', Low Loss, Antenna Cable (Notifier 7626-50HC)	189.84	13.73
28 46 21 33-0994 EA IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P)	298.15	
28 46 21 33-0995 EA RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119)	42.59	
28 46 21 33-0996 EA 120VAC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS)	4,077.61	457.49
28 46 21 33-0997 EA 240VAC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYSE)	4,077.61	457.49
28 46 21 33-0998 EA 3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB)	160.89	4.58
28 46 21 33-0999 EA Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER)	49.08	4.58
28 46 21 33-1000 EA Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT)	62.67	9.15
28 46 21 33-1001 EA Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT)	70.80	11.43
28 46 21 33-1002 EA IP Communicator (Notifier IPDACT-2)	539.12	22.88
28 46 21 33-1003 EA IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD)	627.86	22.88
28 46 21 33-1004 EA Red, IP Communicator External Mounting Enclosure (Notifier IPENC)	144.25	22.88
Note: Includes IPBRKT.		
28 46 21 33-1005 EA Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B)	144.25	22.88
Note: Includes IPBRKT		
28 46 21 33-1006 EA Single Or Dual Path Commercial Fire Communicator (Notifier IPGSM-4G)	751.89	34.31
28 46 21 33-1007 EA Dual 8TPC To Single 8TPC "Y" Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT)	37.82	9.15
28 46 21 33-1008 EA Loop Control Module (Notifier LCM-320)	1,419.30	45.75
28 46 21 33-1009 EA Loop Expander Module (Notifier LEM-320)	1,231.00	45.75
28 46 21 33-1010 EA Keyboard Display Module For CPU2-640 (Notifier KDM-R2)	1,080.53	45.75
28 46 21 33-1011 EA 7' DACT Phone Cord (Notifier MCBL-7)	18.02	
28 46 21 33-1012 EA Backbox For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1)	134.69	11.43
28 46 21 33-1013 EA Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R)	157.56	22.88
28 46 21 33-1014 EA Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B)	157.56	22.88
28 46 21 33-1015 EA Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2)	600.35	22.88
28 46 21 33-1016 EA Universal Zone Coder (Notifier UZC-256)	808.88	22.88
28 46 21 33-1017 EA Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI)	245.19	
Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.		
28 46 21 33-1018 EA Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD)	552.13	
28 46 21 33-1019 EA ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD)	367.56	
28 46 21 33-1020 EA Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS)	3,776.55	13.73
28 46 21 33-1021 ONYX Cabinets (28 46 21 33-0982)		
28 46 21 33-1022 EA Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R)	348.54	11.43
28 46 21 33-1023 EA Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R)	465.67	11.43
28 46 21 33-1024 EA Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R)	573.93	11.43
28 46 21 33-1025 EA Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4)	86.90	13.73
28 46 21 33-1026 EA Chassis Bridge (Notifier CB-1)	76.12	11.43
28 46 21 33-1027 EA Four Position Chassis (Notifier CHS-4)	128.48	11.43
28 46 21 33-1028 EA Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2)	149.58	22.88
28 46 21 33-1029 EA Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B)	68.71	13.73
28 46 21 33-1030 EA Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP)	94.89	13.73
28 46 21 33-1031 EA One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4)	271.01	22.88
28 46 21 33-1032 EA One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B)	175.10	22.88
28 46 21 33-1033 EA Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4)	344.91	34.31
28 46 21 33-1034 EA Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B)	217.33	34.31
28 46 21 33-1035 EA Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4)	512.98	45.75
28 46 21 33-1036 EA Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B)	318.52	45.75
28 46 21 33-1037 EA Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4)	622.96	57.19
28 46 21 33-1038 EA Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B)	371.31	57.19
28 46 21 33-1039 EA Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4)	195.92	11.43
28 46 21 33-1040 EA Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B)	131.14	11.43
28 46 21 33-1041 EA Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR)	123.15	11.43
28 46 21 33-1042 EA Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R)	196.80	11.43
28 46 21 33-1043 EA Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR)	153.32	11.43
28 46 21 33-1044 EA Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R)	250.04	11.43
28 46 21 33-1045 EA Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR)	172.84	11.43
28 46 21 33-1046 EA Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R)	301.51	11.43
28 46 21 33-1047 EA Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR)	251.82	11.43
28 46 21 33-1048 EA Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R)	447.93	11.43
28 46 21 33-1049 EA Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR)	281.99	11.43
28 46 21 33-1050 EA Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R)	535.77	11.43
28 46 21 33-1051 EA Black, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4)	268.48	22.88

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1052 EA Black, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4)	390.93	22.88
28 46 21 33-1053 EA Black, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4)	461.03	22.88
28 46 21 33-1054 EA Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4)	288.00	22.88
28 46 21 33-1055 EA Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4)	418.44	22.88
28 46 21 33-1056 EA Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4)	486.77	22.88
28 46 21 33-1057 EA Red, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4R)	268.48	22.88
28 46 21 33-1058 EA Red, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4R)	390.93	22.88
28 46 21 33-1059 EA Red, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4R)	461.03	22.88
28 46 21 33-1060 EA Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R)	288.00	22.88
28 46 21 33-1061 EA Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R)	418.44	22.88
28 46 21 33-1062 EA Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R)	486.77	22.88
28 46 21 33-1063 EA Backbox With Door For ONLYX Firstvision™ (Notifier FIRSTVISION-ENC)	2,489.54	114.37
28 46 21 33-1064 EA CAB-4 Series Mounting Kit (Notifier P40-KITB)	245.41	22.88
Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 21 33-1065 EA Black, One Tier Backbox Assembly (Notifier SBB-A4)	286.84	68.62
28 46 21 33-1066 EA Black, Two Tier Backbox Assembly (Notifier SBB-B4)	403.85	91.50
28 46 21 33-1067 EA Black, Three Tier Backbox Assembly (Notifier SBB-C4)	522.64	91.50
28 46 21 33-1068 EA Black, Four Tier Backbox Assembly (Notifier SBB-D4)	637.02	114.37
28 46 21 33-1069 EA Black, Mini, One Tier, Backbox (Notifier SBB-AA4)	157.56	22.88
28 46 21 33-1070 EA Red, Mini, One Tier, Backbox (Notifier SBB-AA4R)	157.56	22.88
28 46 21 33-1071 EA Red, One Tier Backbox Assembly (Notifier SBB-A4R)	196.60	22.88
28 46 21 33-1072 EA Red, Two Tier Backbox Assembly (Notifier SBB-B4R)	268.48	22.88
28 46 21 33-1073 EA Red, Three Tier Backbox Assembly (Notifier SBB-C4R)	388.27	22.88
28 46 21 33-1074 EA Red, Four Tier Backbox Assembly (Notifier SBB-D4R)	457.49	22.88
28 46 21 33-1075 EA Trim Ring For NFS-320 Cabinet (Notifier TR-320)	144.58	13.73
28 46 21 33-1076 EA Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R)	144.58	13.73
28 46 21 33-1077 EA Black, "AA" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4)	188.95	13.73
28 46 21 33-1078 EA Black, "A" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4)	154.34	13.73
28 46 21 33-1079 EA Black, "B" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4)	154.34	13.73
28 46 21 33-1080 EA Black, "C" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4)	152.57	13.73
28 46 21 33-1081 EA Black, "D" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4)	156.12	13.73
28 46 21 33-1082 EA 2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Backbox (Notifier VP-2B)	63.39	13.73
28 46 21 33-1083 EA Wire Trays For Routing Wire In A CAB-4 Series Backbox (Notifier WC-2)	40.65	4.58
28 46 21 33-1084 NFS2-3030/640 Cabinet Mechanicals (28 46 21 33-0982)		
28 46 21 33-1085 EA Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640)	91.68	13.73
28 46 21 33-1086 EA Blank Module Dress Plate (Notifier BM-1B)	76.73	13.73
28 46 21 33-1087 EA Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4)	86.40	13.73
28 46 21 33-1088 EA Four Position Expansion Chassis (Notifier CHS-4MB)	190.59	11.43
28 46 21 33-1089 EA Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3)	195.33	34.31
28 46 21 33-1090 EA Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2)	95.20	13.73
28 46 21 33-1091 NFS-3030/640 Cabinet Mechanicals (28 46 21 33-0982)		
28 46 21 33-1092 EA Annunciator Dress Plate (Notifier ADP-4B)	87.28	13.73
28 46 21 33-1093 EA Blank Module Dress Plate (Notifier BMP-1)	56.49	13.73
28 46 21 33-1094 EA Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L)	124.50	22.88
28 46 21 33-1095 EA Module Dress Plate (Notifier MP-1B)	88.16	13.73
28 46 21 33-1096 Battery Cabinets (28 46 21 33-0982)		
28 46 21 33-1097 EA Six Position Chassis (Notifier CHS-6)	82.97	22.88
28 46 21 33-1098 EA Black, 24" x 14" x 7-3/4" Battery Backbox (Notifier NFS-LBB)	395.95	68.62
28 46 21 33-1099 Digital Voice (28 46 21 33-0982)		
28 46 21 33-1100 EA Chassis Used With BB-XP (Notifier 18439)	41.07	11.43
28 46 21 33-1101 EA 220 VAC, 100 Watts, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E)	1,642.80	34.31
28 46 21 33-1102 EA 220 VAC, 120 Watts, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E)	1,596.65	34.31
28 46 21 33-1103 EA 220 VAC, 30 Watts, 25 VRMS Audio Amplifier (Notifier AA-30E)	768.75	34.31
28 46 21 33-1104 EA Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4)	391.55	34.31
28 46 21 33-1105 EA Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4)	530.58	45.75
28 46 21 33-1106 EA Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4)	660.80	57.19
28 46 21 33-1107 EA Multimode Audio Fiber Link Receiver (Notifier AFL-RM)	675.78	22.88
28 46 21 33-1108 EA Single Mode Audio Fiber Link Receiver (Notifier AFL-RS)	1,493.03	22.88
28 46 21 33-1109 EA Multimode Audio Fiber Link Transmitter (Notifier AFL-TM)	675.78	22.88
28 46 21 33-1110 EA Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS)	1,493.03	22.88
28 46 21 33-1111 EA 15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Backbox (Notifier AFAWS-BX)	84.55	11.43
28 46 21 33-1112 EA Flush Mounted, Key Lock, Door (Notifier AFAWS-KR)	135.57	11.43
28 46 21 33-1113 EA Surface Mounted, Key Lock, Door (Notifier AFAWS-KS)	137.79	11.43
28 46 21 33-1114 EA Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR)	136.02	11.43
28 46 21 33-1115 EA Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS)	137.79	11.43
28 46 21 33-1116 EA Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA)	259.81	11.43
28 46 21 33-1117 EA Coil Cord, Telephone Chassis (Notifier AFAWS-TELC)	211.44	11.43
28 46 21 33-1118 EA Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B)	57.95	
28 46 21 33-1119 EA For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V)	453.94	22.88
28 46 21 33-1120 EA For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V)	453.94	22.88
28 46 21 33-1121 EA Blank Dress Plate For CA-2 (Notifier BP-CA2)	79.67	11.43
28 46 21 33-1122 EA One Tier Chassis For Digital Voice Command Panel (Notifier CA-1)	109.10	22.88

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1123 EA Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2).....	327.32	34.31
28 46 21 33-1124 EA Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM).....	162.88	22.88
28 46 21 33-1125 EA Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR).....	162.88	22.88
28 46 21 33-1126 EA Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1).....	186.15	11.43
28 46 21 33-1127 EA Chassis With Paging Microphone With Well (Notifier CMIC-1).....	213.66	11.43
28 46 21 33-1128 EA 120 VAC, 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025).....	1,311.07	22.88
28 46 21 33-1129 EA Multi-Mode Fiber-Optic Media 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F).....	1,064.42	22.88
28 46 21 33-1130 EA Single-Mode Fiber-Optic Media 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF).....	1,064.42	22.88
28 46 21 33-1131 EA 120 VAC, 50 Watts, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070).....	1,353.31	22.88
28 46 21 33-1132 EA Multi-Mode Fiber-Optic Media 50 Watts, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F).....	1,157.03	22.88
28 46 21 33-1133 EA 120 VAC, 75 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525).....	1,405.23	22.88
28 46 21 33-1134 EA Single-Mode Fiber-Optic Media 75 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	1,388.54	22.88
28 46 21 33-1135 EA Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	1,388.54	22.88
28 46 21 33-1136 EA 220-240 VAC, 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E).....	1,321.77	22.88
28 46 21 33-1137 EA 220-240 VAC, 50 Watts, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E).....	1,364.37	22.88
28 46 21 33-1138 EA 220-240 VAC, 75 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E).....	1,416.72	22.88
28 46 21 33-1139 EA 120 VAC, 35 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525).....	905.60	22.88
28 46 21 33-1140 EA 220-240 VAC, 35 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E).....	905.60	22.88
28 46 21 33-1141 EA 120 VAC, 35 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570).....	963.28	22.88
28 46 21 33-1142 EA 220-240 VAC, 35 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E).....	963.28	22.88
28 46 21 33-1143 EA 120 VAC, 50 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025).....	1,000.55	22.88
28 46 21 33-1144 EA 220-240 VAC, 50 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E).....	1,000.55	22.88
28 46 21 33-1145 EA 120 VAC, 50 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070).....	1,058.23	22.88
28 46 21 33-1146 EA 220-240 VAC, 50 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E).....	1,058.23	22.88
28 46 21 33-1147 EA Dress Plate For CFFT-1 (Notifier DP-CFFT).....	92.09	11.43
28 46 21 33-1148 EA Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1).....	82.89	13.73
28 46 21 33-1149 EA Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4).....	95.20	13.73
28 46 21 33-1150 EA Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B).....	161.20	13.73
28 46 21 33-1151 EA WPS Power Amplifier (Notifier DPA3204P).....	533.80	22.88
28 46 21 33-1152 EA WPS Power Amplifier (Notifier DPA4001P).....	449.50	22.88
28 46 21 33-1153 EA Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232).....	941.98	22.88
28 46 21 33-1154 EA 120 VAC, 125 Watts, 25 VRMS Digital Series Amplifier (Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V) (Notifier DS-AMP).....	711.27	22.88
28 46 21 33-1155 EA 220-240 VAC, 125 Watts, 25 VRMS Digital Series Amplifier (Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V) (Notifier DS-AMPE).....	711.27	22.88
28 46 21 33-1156 EA Digital Series Distribution Board, Supports One To Four DS-Amp Or DS-AMPE (Notifier DS-DB).....	1,199.32	22.88
28 46 21 33-1157 EA 125 Watts, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watts Amplifier With A DS-XF70V) (Notifier DS-BDA).....	489.43	22.88
28 46 21 33-1158 EA Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM).....	249.84	22.88
28 46 21 33-1159 EA Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXF Series Amplifier), Fiber Option Module (Notifier DS-RFM).....	249.84	22.88
28 46 21 33-1160 EA Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM).....	249.84	22.88
28 46 21 33-1161 EA Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watts, DS Series Transformer (Notifier DS-XF70V).....	107.87	22.88
28 46 21 33-1162 EA Analog Output Board For Digital Voice Command (Notifier DVC-AO).....	234.93	22.88
28 46 21 33-1163 EA Extended Memory For Digital Voice Command (Notifier DVC-EM).....	1,321.63	22.88
28 46 21 33-1164 EA Keypad For Digital Voice Command (Notifier DVC-KD).....	395.07	45.75
28 46 21 33-1165 EA Replacement Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE).....	188.40	
28 46 21 33-1166 EA Fire Fighters Telephone Control With Master Handset (Notifier FFT-7).....	1,365.84	45.75
28 46 21 33-1167 EA Portable Fireman's Telephone Handset (Notifier FHS).....	120.51	
28 46 21 33-1168 EA Red, Fireman's Telephone Handset (Notifier FHS-F).....	120.51	
28 46 21 33-1169 EA Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R).....	335.92	22.88
28 46 21 33-1170 EA Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S).....	335.92	22.88
28 46 21 33-1171 EA Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ).....	55.44	6.86
28 46 21 33-1172 EA Paging Microphone Only (Notifier MIC-1).....	161.02	22.88
28 46 21 33-1173 EA Firefighter's Telephone Handset (Notifier TELH-1).....	132.49	
28 46 21 33-1174 EA Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1).....	388.04	22.88
28 46 21 33-1175 EA Remote Microphone Assembly For Mounting In A Stand Alone Cabinet (Notifier RM-1SA).....	388.04	22.88
28 46 21 33-1176 Amplifiers (28 46 21 33-0982)		
28 46 21 33-1177 EA 30 Watt Audio Amplifier At 25 VRMS, 120 VAC (Notifier AA-30).....	740.01	22.88
28 46 21 33-1178 EA 100 Watt Audio Amplifier At 70.7 VRMS, 120 VAC, Tone Generator (Notifier AA-100).....	1,606.73	22.88
28 46 21 33-1179 EA 120 Watt Audio Amplifier At 25 VRMS, 120 VAC, Tone Generator (Notifier AA-120).....	1,560.97	22.88
28 46 21 33-1180 EA Audio Coupling Transformer (Notifier ACT-1).....	118.78	22.88
28 46 21 33-1181 EA Audio Coupling Transformer For Analog Amplifiers (Notifier ACT-2).....	138.14	22.88
28 46 21 33-1182 EA Audio Coupling Transformer For DVC-AO (Notifier ACT-4).....	138.14	22.88
28 46 21 33-1183 EA Audio Coupling Transformer For DAA-5025 (Notifier ACT-25).....	138.14	22.88
28 46 21 33-1184 EA Audio Coupling Transformer For DAA-5070 (Notifier ACT-70).....	138.14	22.88
28 46 21 33-1185 FireVoice-25/50 Emergency Voice Evacuation Control Panels (28 46 21 33-0982)		
28 46 21 33-1186 EA 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50).....	3,049.54	457.49
28 46 21 33-1187 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA).....	2,211.45	457.49
28 46 21 33-1188 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS).....	2,813.39	457.49
28 46 21 33-1189 EA Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS).....	3,600.55	457.49
28 46 21 33-1190 EA Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST).....	3,961.71	457.49
28 46 21 33-1191 System Printer (28 46 21 33-0982)		
28 46 21 33-1192 EA 80 Column, 120 VAC, Desktop Printer (Notifier PRN-6).....	1,596.17	22.88

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1193 Batteries (28 46 21 33-0982)				
28 46 21 33-1194	EA	5 Amp Hour, 12 VDC, Sealed Battery Pack (Notifier BAT-1250-BP)	450.39	22.88
28 46 21 33-1195	EA	7 Amp Hour, 12 VDC, Sealed Battery Pack (Notifier BAT-1270-BP)	346.68	22.88
28 46 21 33-1196	EA	12 Amp Hour, 12 VDC, Sealed Battery Pack (Notifier BAT-12120-BP)	454.03	22.88
28 46 21 33-1197	EA	18 Amp Hour, 12 VDC, Sealed Battery Pack (Notifier BAT-12180-BP)	267.49	22.88
28 46 21 33-1198	EA	26 Amp Hour, 12 VDC, Sealed Battery Pack (Notifier BAT-12260-BP)	371.32	22.88
28 46 21 33-1199	EA	55 Amp Hour, 12 VDC, Sealed Battery (Notifier BAT-12550)	370.44	22.88
28 46 21 33-1200	EA	100 Amp Hour, 12 VDC, Sealed Battery (Notifier BAT-121000)	585.84	22.88
28 46 21 33-1201 Battery Backboxes And Miscellaneous Mechanicals (28 46 21 33-0982)				
28 46 21 33-1202	EA	14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Backbox (Notifier BB-17)	115.57	18.30
28 46 21 33-1203	EA	24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25)	177.68	18.30
		Note: XP6 modules require a CHS-6.		
28 46 21 33-1204	EA	15.6" x 15.5" x 5.152", Mounts Up To Two 26 Amp Hour And Charger, Battery Backbox (Notifier BB-26)	322.02	91.50
28 46 21 33-1205	EA	Holds Up To Two BAT-12120 12 Amp Hour Batteries, Battery Holder (Notifier CHS-BH)	154.50	45.75
28 46 21 33-1206	EA	Holds Up To Two BAT-12120 12 Amp Hour Batteries, Battery Holder (Notifier CHS-BH1)	69.91	11.43
28 46 21 33-1207	EA	Battery Bracket For Two 26 Amp Hour Batteries (Notifier SEISKIT-BB25)	195.43	18.30
28 46 21 33-1208	EA	Two 26 Amp Hour Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB)	151.95	18.30
28 46 21 33-1209	EA	Two 12 Amp Hour Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA)	167.92	18.30
28 46 21 33-1210	EA	Two 55 Amp Hour Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB)	182.12	18.30
28 46 21 33-1211 Power Supplies And Chargers (28 46 21 33-0982)				
28 46 21 33-1212	EA	120 VAC, 6 Or 10 Amps, Addressable Charging Power Supply (Notifier ACPS-610)	1,133.45	34.31
28 46 21 33-1213	EA	220/240 VAC, 6 Or 10 Amps, Addressable Charging Power Supply (Notifier ACPS-610E)	1,133.45	34.31
28 46 21 33-1214	EA	Addressable Power Supply, 120 VAC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24)	1,127.17	22.88
28 46 21 33-1215	EA	6A Auxiliary Power Supply (Notifier APS-6R)	576.38	22.88
28 46 21 33-1216	EA	10 Amp Battery Charger (Notifier BC10A)	716.39	34.31
28 46 21 33-1217	EA	33.34" x 22.5" x 7.5", Holds Four 55 Amp Hour Or Two 100 Amp Hour Batteries, For NFS-3030 Or NFS2-3030, Combination Power Supply And Battery Enclosure (Notifier BB-100)	422.27	27.45
28 46 21 33-1218	EA	33.34" x 22.5" x 7.5", Holds Four 55 Amp Hour Or Two 100 Amp Hour Batteries, For NFS-3030 Or NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-100R)	422.27	27.45
28 46 21 33-1219	EA	30.34" x 36.5" x 7.5", Holds Four 55 Amp Hour Or Four 100 Amp Hour Batteries, For NFS2-3030, Combination Power Supply And Battery Enclosure (Notifier BB-200)	605.95	27.45
28 46 21 33-1220	EA	30.34" x 36.5" x 7.5", Holds Four 55 Amp Hour Or Four 100 Amp Hour Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R)	605.95	27.45
28 46 21 33-1221	EA	15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1)	114.96	22.88
28 46 21 33-1222	EA	25 To 120 Amp Hour Battery Charger (Notifier CHG-120)	870.23	22.88
28 46 21 33-1223	EA	Mounts XPIQ-PS And/Or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS)	65.47	11.43
28 46 21 33-1224	EA	Replacement Door Used For Mounting ACPS-610 (E) In A CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1)	102.74	11.43
28 46 21 33-1225	EA	8.0 Amps, 120 VAC Remote Charger Power Supply (Notifier FCPS-24S8)	578.98	22.88
28 46 21 33-1226	EA	8.0 Amps, 240 VAC Remote Charger Power Supply (Notifier FCPS-24S8E)	674.99	68.62
28 46 21 33-1227	EA	Red, 8.0 Amps, 240 VAC Remote Charger Power Supply (Notifier FCPS-24S8R)	674.99	68.62
28 46 21 33-1228	EA	8 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPFF8)	769.94	68.62
28 46 21 33-1229	EA	8 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPFF8E)	769.94	68.62
28 46 21 33-1230	EA	Chassis Mounted, 8 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPFF8CM)	734.14	34.31
28 46 21 33-1231	EA	Chassis Mounted, 8 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPFF8CME)	734.14	34.31
28 46 21 33-1232	EA	12 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPFF12)	889.43	34.31
28 46 21 33-1233	EA	12 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPFF12E)	889.43	34.31
28 46 21 33-1234	EA	Chassis Mounted, 12 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPFF12CM)	923.15	68.62
28 46 21 33-1235	EA	Chassis Mounted, 12 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPFF12CME)	923.15	68.62
28 46 21 33-1236	EA	6 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPF24S6)	643.93	68.62
28 46 21 33-1237	EA	6 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPF24S6E)	643.93	68.62
28 46 21 33-1238	EA	8 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPF24S8)	694.51	68.62
28 46 21 33-1239	EA	8 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPF24S8E)	694.51	68.62
28 46 21 33-1240	EA	6 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA)	558.75	68.62
28 46 21 33-1241	EA	9 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA)	658.13	68.62
28 46 21 33-1242	EA	Class A Adapter HPFF8/HPFF12 (Notifier HPP31076)	133.80	11.43
28 46 21 33-1243	EA	Main Power Supply And Charger, Up To 3 Amps (Notifier MPS-24A)	832.90	22.88
28 46 21 33-1244	EA	Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4)	155.78	22.88
28 46 21 33-1245 Network Control Annunciators (28 46 21 33-0982)				
28 46 21 33-1246	EA	Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2)	1,589.12	68.62
28 46 21 33-1247	EA	Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO)	63.53	13.73
28 46 21 33-1248	EA	Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit)	46.81	13.73
28 46 21 33-1249 FIRSTVISION Firefighter's Display (28 46 21 33-0982)				
28 46 21 33-1250	EA	Replacement ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD)	12,388.97	457.49
28 46 21 33-1251 FlashScan Addressable Modules (28 46 21 33-0982)				
28 46 21 33-1252	EA	Intelligent Addressable Control Module (Notifier FCM-1)	141.66	22.88

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1253 EA Addressable Dual Monitor Module (Notifier FDM-1)	157.50	22.88
28 46 21 33-1254 EA Intelligent Addressable Monitor Module (Notifier FMM-1)	118.78	22.88
28 46 21 33-1255 EA Intelligent Addressable Miniature Monitor Module (Notifier FMM-101)	106.46	22.88
28 46 21 33-1256 EA Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20)	212.93	22.88
28 46 21 33-1257 EA Intelligent Addressable Relay Module (Notifier FRM-1)	136.38	22.88
28 46 21 33-1258 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1)	176.86	22.88
28 46 21 33-1259 EA SLC Loop Powered Fault Isolator Module (Notifier ISO-X)	117.02	22.88
28 46 21 33-1260 Addressable Device Bases And Accessories (28 46 21 33-0982)		
28 46 21 33-1261 EA Intelligent Detector Base With Flange (Notifier B710LP)	40.48	11.43
28 46 21 33-1262 EA Weatherproof Device Housing (Notifier DH400OE-1)	354.60	22.88
28 46 21 33-1263 XP6/XP10 Transponder (28 46 21 33-0982)		
28 46 21 33-1264 EA Synchronization Daughter Module For XP6-C (Notifier SYNC-1)	106.02	22.88
28 46 21 33-1265 EA Six Circuit Supervised Control Module (Notifier XP6-C)	506.83	22.88
28 46 21 33-1266 EA Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA)	612.42	22.88
28 46 21 33-1267 EA Six Relay Control Module (Notifier XP6-R)	487.47	22.88
28 46 21 33-1268 EA Ten Input Monitor Module (Notifier XP10-M)	586.02	22.88
28 46 21 33-1269 LCD Display Annunciators (28 46 21 33-0982)		
28 46 21 33-1270 EA 80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80)	660.80	68.62
28 46 21 33-1271 EA 80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80)	920.38	68.62
28 46 21 33-1272 EA 640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160)	952.06	68.62
28 46 21 33-1273 EA 8 To 16 Switch Smoke Control Expander (Notifier SCE-8)	626.08	22.88
28 46 21 33-1274 EA 8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L)	334.14	22.88
28 46 21 33-1275 EA Eight Switch Smoke Control Master Module (Notifier SCS-8)	812.43	22.88
28 46 21 33-1276 ONYX ACM And AEM Series LED Annunciators (28 46 21 33-0982)		
28 46 21 33-1277 EA Remote, Eight Form C Relay Module (Notifier ACM-8R)	368.75	22.88
28 46 21 33-1278 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT)	669.61	22.88
28 46 21 33-1279 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT)	513.87	22.88
28 46 21 33-1280 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT)	669.61	22.88
28 46 21 33-1281 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT)	513.87	22.88
28 46 21 33-1282 EA 32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A)	513.87	22.88
28 46 21 33-1283 EA 32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A)	461.07	22.88
28 46 21 33-1284 EA 48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A)	513.87	22.88
28 46 21 33-1285 EA 48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A)	461.07	22.88
28 46 21 33-1286 Graphic Annunciator - Lamp Driver Modules (28 46 21 33-0982)		
28 46 21 33-1287 EA Single Annunciator Flush Mounted Backbox (Notifier ABF-1B)	219.97	45.75
28 46 21 33-1288 EA Single Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-1DB)	238.45	45.75
28 46 21 33-1289 EA Two Annunciator Flush Mounted Backbox (Notifier ABF-2B)	275.40	57.19
28 46 21 33-1290 EA Two Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-2DB)	299.15	57.19
28 46 21 33-1291 EA Four Annunciator Flush Mounted Backbox (Notifier ABF-4B)	478.64	80.06
28 46 21 33-1292 EA Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1)	85.08	13.73
28 46 21 33-1293 EA Single Annunciator Surface Mounted Backbox (Notifier ABS-1B)	144.74	45.75
28 46 21 33-1294 EA Single Annunciator Surface Mounted Backbox With Trim (Notifier ABS-1TB)	119.60	11.43
28 46 21 33-1295 EA Two Annunciator Surface Mounted Backbox (Notifier ABS-2B)	178.61	45.75
28 46 21 33-1296 EA 12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Backbox (Notifier ABS-2D)	311.47	57.19
28 46 21 33-1297 EA Red, Surface (Or Semi-Flush) Mounted Backbox For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR)	221.65	11.43
28 46 21 33-1298 EA Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4D)	502.40	80.06
28 46 21 33-1299 EA Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4DR)	372.63	13.73
28 46 21 33-1300 EA Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Backbox (Notifier ABS-8RB)	145.74	18.30
28 46 21 33-1301 EA Annunciator Key Switch (Notifier AKS-1B)	71.41	6.86
28 46 21 33-1302 EA Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D)	83.15	22.88
28 46 21 33-1303 EA 32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32)	461.07	22.88
28 46 21 33-1304 EA 24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24)	136.04	4.58
28 46 21 33-1305 EA 48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48)	169.76	4.58
28 46 21 33-1306 EA 32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32)	381.00	22.88
28 46 21 33-1307 EA Lamp Driver Module (Notifier LDM-R32)	666.01	22.88
28 46 21 33-1308 EA Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L)	618.10	22.88
28 46 21 33-1309 EA 48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48)	172.42	4.58
28 46 21 33-1310 EA Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D)	142.81	13.73
28 46 21 33-1311 EA Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D)	88.68	13.73
28 46 21 33-1312 EA Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR)	88.68	13.73
28 46 21 33-1313 Network Gateways (28 46 21 33-0982)		
28 46 21 33-1314 EA Common Alerting Protocol Gateway (Notifier CAP-GW)	2,485.99	22.88
28 46 21 33-1315 EA PC Version, Receivers Gateway (Notifier DACR-GW)	1,944.70	22.88
28 46 21 33-1316 EA Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF)	1,855.96	22.88
28 46 21 33-1317 EA Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF)	2,077.80	22.88
28 46 21 33-1318 EA Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF)	2,308.52	22.88

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1319 EA Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W).....	1,767.23	22.88
28 46 21 33-1320 EA Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS-NCM-WMF)	1,811.60	22.88
28 46 21 33-1321 EA Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-WSF)	2,037.87	22.88
28 46 21 33-1322 EA Modbus Gateway (Notifier MODBUS-GW)	1,944.70	22.88
28 46 21 33-1323 EA 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW)	2,367.53	15.10
28 46 21 33-1324 EA Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS)	3,529.08	15.10
28 46 21 33-1325 EA 1920x1080P Wide Screen (Notifier MON-42LCDW).....	11,196.76	15.10
28 46 21 33-1326 EA Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD).....	459.06	34.31
28 46 21 33-1327 EA Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD)	836.19	34.31
28 46 21 33-1328 EA Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD)	1,217.75	34.31
28 46 21 33-1329 EA Mass Notification Voice Paging (Notifier NOTIFY-IP)	931.73	
28 46 21 33-1330 EA Non UL Listed Applications, Mass Notification Voice Paging (Notifier NOTIFY-IP-NOUL)	931.73	
28 46 21 33-1331 EA Embedded NFN Gateway (Notifier NFN-GW-EM)	1,928.78	22.88
28 46 21 33-1332 EA NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F).....	1,928.78	22.88
28 46 21 33-1333 EA High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW-PC-HNMF)	2,832.06	22.88
28 46 21 33-1334 EA High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW-PC-HNSF)	3,302.36	22.88
28 46 21 33-1335 EA High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW)	2,832.06	22.88
28 46 21 33-1336 EA NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W)	1,928.78	22.88
28 46 21 33-1337 EA E-Mail Option For ONYXworks (Notifier ONYX-NOTIFY)	931.73	
28 46 21 33-1338 EA Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER)	931.73	
28 46 21 33-1339 EA ONYXWorks Workstation (Notifier ONYXWORKS-WS)	17,724.72	548.98
28 46 21 33-1340 EA Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW).....	3,732.43	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 21 33-1341 EA Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF).....	3,732.43	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 21 33-1342 EA Fiber Optics, Standard Network Repeater Board (Notifier RPT-F).....	863.90	22.88
28 46 21 33-1343 EA Wire, Standard Network Repeater Board (Notifier RPT-W)	701.51	22.88
28 46 21 33-1344 EA Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF).....	840.82	22.88
28 46 21 33-1345 EA Signaling Line Circuit Integration Module (Notifier SLC-IM).....	928.67	22.88
28 46 21 33-1346 EA VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW).....	1,944.70	22.88
28 46 21 33-1347 EA Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS)	1,607.50	22.88
28 46 21 33-1348 EA Windows 7 Hard Drive Upgrade (Notifier WIN7-UG-US-3)	1,774.72	
28 46 21 33-1349 NOTI-FIRE-NET Network Components (28 46 21 33-0982)		
28 46 21 33-1350 EA Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3).....	1,928.78	22.88
28 46 21 33-1351 EA Fiber Optic Network Communications Module (Notifier NCM-F).....	861.44	22.88
28 46 21 33-1352 EA NOTI-FIRE-NET Web Server (Notifier NWS).....	1,928.78	22.88
28 46 21 33-1353 EA Wired Network Communications Module (Notifier NCM-W).....	820.96	22.88
28 46 21 33-1354 EA Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit).....	80.30	11.43
28 46 21 33-1355 FireWarden Addressable Fire Panels (28 46 21 33-0982)		
28 46 21 33-1356 EA 50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50)	1,755.28	457.49
28 46 21 33-1357 EA Black, One SLC Loop, 120 VAC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100)	2,067.66	457.49
28 46 21 33-1358 EA Black, One DC Loop, 120 VAC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C).....	2,077.40	228.74
28 46 21 33-1359 EA Black, One SLC Loop, 240 VAC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E)	2,077.40	228.74
28 46 21 33-1360 EA Red, One SLC Loop, 120 VAC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R).....	2,077.40	228.74
28 46 21 33-1361 FireWarden Accessories (28 46 21 33-0982)		
28 46 21 33-1362 EA Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100).....	156.47	34.31
28 46 21 33-1363 EA Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T)	155.58	34.31
28 46 21 33-1364 FireWarden Devices (28 46 21 33-0982)		
28 46 21 33-1365 EA SLC Loop Powered Fault Isolator Module (Notifier N100-ISO).....	116.14	22.88
28 46 21 33-1366 EA Intelligent Addressable Control Module (Notifier NC-100)	137.26	22.88
28 46 21 33-1367 EA Intelligent Addressable Relay Module (Notifier NC-100R)	131.98	22.88
28 46 21 33-1368 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100).....	280.69	34.31
28 46 21 33-1369 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R)	336.25	34.31
28 46 21 33-1370 EA Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100).....	131.98	22.88
28 46 21 33-1371 EA Intelligent Addressable Thermal Detector With Base (Notifier NH-100).....	137.25	34.31
28 46 21 33-1372 EA Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H)	137.25	34.31
28 46 21 33-1373 EA Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R)	137.25	34.31
28 46 21 33-1374 EA Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100).....	183.01	34.31
28 46 21 33-1375 EA Intelligent Addressable Monitor Module (Notifier NMM-100).....	114.38	22.88
28 46 21 33-1376 EA Intelligent Addressable Mini Monitor Module (Notifier NMM-100P).....	104.26	22.88
28 46 21 33-1377 EA Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX).....	153.54	22.88



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28 46 21 33-1378 EA Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100)	143.41	34.31
28 46 21 33-1379 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100)	171.58	22.88
28 46 21 33-1380 EA Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6)	598.34	22.88
28 46 21 33-1381 SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories (28 46 21 33-0982)		
28 46 21 33-1382 EA 120 VAC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402)	1,171.93	365.98
28 46 21 33-1383 EA 120 VAC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404)	1,285.44	365.98
28 46 21 33-1384 EA 240 VAC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFB-2402E)	901.17	114.37
28 46 21 33-1385 EA 240 VAC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFB-2404E)	1,015.64	114.37
28 46 21 33-1386 EA Class A Converter Module (Notifier CAC-4)	302.20	22.88
28 46 21 33-1387 EA Optional Internal Dress Panel For SFB-2402 And SFB-2404 Only (Notifier DP-3-B)	101.99	13.73
28 46 21 33-1388 EA Internal Dress Plate, Required For FM And ULC (Notifier DP-4X)	103.76	13.73
28 46 21 33-1389 EA Remote Zone Annunciator (Notifier RZA-4X)	152.03	34.31
28 46 21 33-1390 SFP-5UD 5 Zone Control Panels And Accessories (28 46 21 33-0982)		
28 46 21 33-1391 EA 120 VAC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD)	1,790.48	457.49
28 46 21 33-1392 EA 120 VAC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC)	2,721.24	343.12
28 46 21 33-1393 EA 240 VAC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE)	1,797.88	228.74
28 46 21 33-1394 EA Red, 120 VAC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR)	1,797.88	228.74
28 46 21 33-1395 EA Class A Converter Module (Notifier N-CAC-5X)	302.20	22.88
28 46 21 33-1396 EA Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE)	120.62	13.73
28 46 21 33-1397 SFP-10UD 10 Zone Control Panels And Accessories (28 46 21 33-0982)		
28 46 21 33-1398 EA 120 VAC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC)	3,351.75	457.49
28 46 21 33-1399 EA 240 VAC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE)	2,507.38	343.12
28 46 21 33-1400 EA 120 VAC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD)	2,036.86	457.49
28 46 21 33-1401 EA Red, 120 VAC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR)	2,964.86	457.49
28 46 21 33-1402 EA Four Channel, Dual Line, Stand Alone Fire Alarm Communicator (Fire-Lite 411UDAC)	513.86	68.62
28 46 21 33-1403 Smoke Detectors (28 46 21 33-0982)		
28 46 21 33-1404 EA Intelligent Addressable Beam Smoke Detector (Notifier FSB-200)	1,289.44	45.75
28 46 21 33-1405 EA Intelligent Addressable Beam Smoke Detector With Remote Test Feature (Notifier FSB-200S)	1,466.91	45.75
28 46 21 33-1406 EA Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851)	195.33	34.31
28 46 21 33-1407 EA Intelligent Addressable Laser Smoke Detector (Notifier FSL-751)	323.80	34.31
28 46 21 33-1408 EA Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D)	809.47	34.31
28 46 21 33-1409 EA Low Profile Intelligent Addressable Photoelectric Smoke Detector (Notifier FSP-851)	159.25	34.31
28 46 21 33-1410 EA Remote Test Capable, Low Profile Intelligent Addressable Photoelectric Smoke Detector (Notifier FSP-851R)	162.68	34.31
28 46 21 33-1411 EA Intelligent Addressable Thermal Detector (Notifier FST-851)	132.85	34.31
28 46 21 33-1412 EA Intelligent Addressable High Temperature Thermal Detector (Notifier FST-851H)	132.85	34.31
28 46 21 33-1413 EA Intelligent Addressable Rate-Of-Rise Thermal Detector (Notifier FST-851R)	132.85	34.31
28 46 21 33-1414 EA Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R)	146.71	34.31
Note: For use with DNR(W) duct detector housing.		
28 46 21 33-1415 EA Filters For Harsh Detector (Notifier RF-FTX)	17.73	
28 46 21 33-1416 EA Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY)	118.56	22.88
28 46 21 33-1417 Pull Stations (28 46 21 33-0982)		
28 46 21 33-1418 EA Trim Ring For NBG12 Series Pull Station (Notifier BG12TR)	25.12	4.58
28 46 21 33-1419 EA One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2)	54.82	11.43
28 46 21 33-1420 EA Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2R)	54.82	11.43
28 46 21 33-1421 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1)	76.36	22.88
28 46 21 33-1422 EA DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F)	83.02	22.88
28 46 21 33-1423 EA Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1FTS)	109.20	22.88
28 46 21 33-1424 EA Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R)	76.36	22.88
28 46 21 33-1425 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS)	86.12	22.88
28 46 21 33-1426 EA Standard "Local" Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL)	86.12	22.88
28 46 21 33-1427 EA Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSR)	86.12	22.88
28 46 21 33-1428 EA Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1)	82.13	22.88
28 46 21 33-1429 EA Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R)	87.90	22.88
28 46 21 33-1430 EA Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL)	609.50	27.45
28 46 21 33-1431 EA Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S)	69.83	22.88
28 46 21 33-1432 EA Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12)	89.09	22.88
28 46 21 33-1433 EA Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L)	82.05	22.88
28 46 21 33-1434 EA Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB)	182.49	27.45
28 46 21 33-1435 EA Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS)	109.64	22.88
28 46 21 33-1436 EA Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR)	96.77	22.88
28 46 21 33-1437 EA Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX)	154.42	22.88
28 46 21 33-1438 EA Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE)	38.43	4.58

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28 46 21 33-1439		Rate Compensation Heat Detectors (28 46 21 33-0982)		
28 46 21 33-1440	EA	135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135).....	146.05	34.31
28 46 21 33-1441	EA	194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194).....	146.05	34.31
28 46 21 33-1442		FM Series Door Releases (28 46 21 33-0982)		
28 46 21 33-1443	EA	1/2" Door Holder Spacer (Notifier FM900-50).....	24.29	6.86
28 46 21 33-1444	EA	3/4" Door Holder Spacer (Notifier FM900-75).....	24.29	6.86
28 46 21 33-1445	EA	1" Door Holder Spacer (Notifier FM900-100).....	24.29	6.86
28 46 21 33-1446	EA	Door Holder Extension Kit (Notifier FM900).....	25.61	6.86
28 46 21 33-1447	EA	90 Degree Door Holder Extension Kit (Notifier FM900-Z).....	26.05	6.86
28 46 21 33-1448	EA	Floor Mounted, 12VDC, 24VAC/DC Or 120VAC, Door Holder (Notifier FM980).....	175.09	34.31
28 46 21 33-1449	EA	Surface Mounted, 12VDC, 24VAC/DC Or 120VAC, Door Holder (Notifier FM996).....	153.09	34.31
28 46 21 33-1450	EA	Recessed Mounted, Concealed Wiring, 12VDC, 24VAC/DC Or 120VAC, Door Holder (Notifier FM998).....	153.09	34.31
28 46 21 33-1451		Multicriteria Fire Detector (28 46 21 33-0982)		
28 46 21 33-1452	EA	Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851).....	263.84	34.31
28 46 21 33-1453	EA	Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851).....	244.32	34.31
28 46 21 33-1454	EA	Note: Detects fire, thermal, photo, CO and IR, with Flashscan. Low Profile Intelligent Addressable Photoelectric Smoke Detector With Built-In 135°F Fixed Temperature Thermal Device (Notifier FSP-851T).....	160.91	34.31
28 46 21 33-1455		Modules (28 46 21 33-0982)		
28 46 21 33-1456	EA	Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1).....	296.87	22.88
28 46 21 33-1457	EA	Addressable Firephone Control Module (Notifier FTM-1).....	177.08	22.88
28 46 21 33-1458		DH Series Door Releases (28 46 21 33-0982)		
28 46 21 33-1459	EA	Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC).....	152.03	34.31
28 46 21 33-1460	EA	Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB).....	161.26	34.31
28 46 21 33-1461	EA	Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD).....	170.67	34.31
28 46 21 33-1462	EA	Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC).....	168.00	34.31
28 46 21 33-1463	EA	Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB).....	175.99	34.31
28 46 21 33-1464	EA	Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD).....	182.20	34.31
28 46 21 33-1465	EA	Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC).....	152.03	34.31
28 46 21 33-1466	EA	Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB).....	160.91	34.31
28 46 21 33-1467	EA	Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD).....	170.67	34.31
28 46 21 33-1468	EA	Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1).....	191.96	34.31
28 46 21 33-1469	EA	Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1).....	204.39	34.31
28 46 21 33-1470	EA	Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1).....	218.58	34.31
28 46 21 33-1471	EA	Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2).....	222.13	34.31
28 46 21 33-1472	EA	Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2).....	236.33	34.31
28 46 21 33-1473	EA	Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2).....	254.08	34.31
28 46 21 33-1474	EA	.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC).....	17.67	4.58
28 46 21 33-1475	EA	.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B).....	17.67	4.58
28 46 21 33-1476	EA	.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D).....	19.09	4.58
28 46 21 33-1477	EA	1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC).....	17.67	4.58
28 46 21 33-1478	EA	1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B).....	17.67	4.58
28 46 21 33-1479	EA	1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D).....	19.09	4.58
28 46 21 33-1480	EA	1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC).....	18.73	4.58
28 46 21 33-1481	EA	1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC).....	18.73	4.58
28 46 21 33-1482	EA	1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B).....	19.09	4.58
28 46 21 33-1483	EA	1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D).....	20.15	4.58
28 46 21 33-1484	EA	2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC).....	20.15	4.58
28 46 21 33-1485	EA	2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC).....	20.15	4.58
28 46 21 33-1486	EA	2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B).....	20.69	4.58
28 46 21 33-1487	EA	2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D).....	21.04	4.58
28 46 21 33-1488	EA	3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC).....	21.04	4.58
28 46 21 33-1489	EA	3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B).....	22.11	4.58
28 46 21 33-1490	EA	3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D).....	22.11	4.58
28 46 21 33-1491	EA	4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC).....	22.46	4.58
28 46 21 33-1492	EA	4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC).....	22.46	4.58
28 46 21 33-1493	EA	4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB).....	23.35	4.58
28 46 21 33-1494	EA	4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD).....	26.01	4.58
28 46 21 33-1495	EA	5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC).....	23.35	4.58
28 46 21 33-1496	EA	5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B).....	24.41	4.58
28 46 21 33-1497	EA	5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D).....	26.01	4.58
28 46 21 33-1498	EA	Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCP).....	24.91	6.86
28 46 21 33-1499	EA	Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB).....	25.62	6.86
28 46 21 33-1500	EA	Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD).....	27.93	6.86
28 46 21 33-1501	EA	Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC).....	44.43	6.86
28 46 21 33-1502	EA	Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB).....	47.27	6.86

**Electronic Safety And Security****28**

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1503 EA Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD)	50.11	6.86
28 46 21 33-1504 EA Surface Mounted Backbox, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC)	42.05	11.43
28 46 21 33-1505 EA Surface Mounted Backbox, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB)	44.18	11.43
28 46 21 33-1506 EA Surface Mounted Backbox, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBB)	47.19	11.43
28 46 21 33-1507 EA Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF)	239.59	
28 46 21 33-1508 EA Two Piece Extension Wrench (Notifier DHW)	2.66	
28 46 21 33-1509 First Command (28 46 21 33-0982)		
28 46 21 33-1510 EA Black, 120 VAC, 50 Watts, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100)	4,781.79	571.85
28 46 21 33-1511 EA Black, 220-240 VAC, 50 Watts, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E)	4,781.79	571.85
28 46 21 33-1512 EA Black, 120 VAC, 50 Watts, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA)	1,288.64	45.75
28 46 21 33-1513 EA Black, 220-240 VAC, 50 Watts, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE)	1,288.64	45.75
28 46 21 33-1514 EA Black, 120 VAC, 125 Watts, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA)	2,346.37	45.75
28 46 21 33-1515 EA Black, , 220-240 VAC, 125 Watts, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE)	2,346.37	45.75
28 46 21 33-1516 EA 50 Watts, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt)	511.61	22.88
28 46 21 33-1517 EA 50 Watts, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt)	511.61	22.88
28 46 21 33-1518 EA Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4)	348.34	22.88
28 46 21 33-1519 EA Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6)	489.43	22.88
28 46 21 33-1520 EA Standalone Firefighter Telephone System (Notifier NFC-FFT)	1,740.31	45.75
Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.		
28 46 21 33-1521 EA Local Operator Console (Notifier NFC-LOC)	1,683.52	45.75
Note: Includes built-in microphone, message and zone control switches, black.		
28 46 21 33-1522 EA Black, Remote Microphone (Notifier NFC-RM)	483.00	
28 46 21 33-1523 EA Remote Page Unit (Notifier NFC-RPU)	1,425.29	45.75
Note: Includes built-in microphone, message control switches, black.		
28 46 21 33-1524 EA Remote Telephone Zone Module (Notifier NFC-RTZM)	645.61	22.88
28 46 21 33-1525 EA 70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V)	264.93	22.88
28 46 21 33-1526 EA Firefighters Phone Jack (Notifier N-FPJ)	121.99	6.86
28 46 21 33-1527 EA Thumbatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH)	35.03	6.86
28 46 21 33-1528 EA Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B)	106.43	13.73
28 46 21 33-1529 LED Displays (28 46 21 33-0982)		
28 46 21 33-1530 EA 2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215)	1,164.10	27.45
28 46 21 33-1531 EA Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW)	1,972.15	36.59
28 46 21 33-1532 EA 4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT)	2,025.39	36.59
28 46 21 33-1533 EA 8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8)	1,359.87	36.59
28 46 21 33-1534 EA 16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16)	2,069.76	36.59
28 46 21 33-1535 EA LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V)	2,025.39	36.59
28 46 21 33-1536 Control Relays (28 46 21 33-0982)		
28 46 21 33-1537 EA Single SPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-101/CR)	53.05	11.43
28 46 21 33-1538 EA Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T)	42.40	11.43
28 46 21 33-1539 EA Four Position SPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-104/CR)	138.04	22.88
28 46 21 33-1540 EA Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T)	85.00	11.43
28 46 21 33-1541 EA Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T)	100.97	11.43
28 46 21 33-1542 EA 24 VDC, 30 Amp Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C)	123.84	22.88
28 46 21 33-1543 EA 120 VAC, 30 Amp Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C)	123.84	22.88
28 46 21 33-1544 EA Single DPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-201/CR)	79.47	22.88
28 46 21 33-1545 EA Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T)	45.51	11.43
28 46 21 33-1546 EA Four Position DPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-204/CR)	156.67	22.88
28 46 21 33-1547 EA 24 VDC/24 VAC/115 VAC, 10 Amp, Form C, Multi-Voltage Relay Module (Notifier PAM-1)	59.95	22.88
28 46 21 33-1548 EA 12/24 VDC, 7 Amp, Form C, Multi-Voltage Relay Module (Notifier PAM-2)	59.95	22.88
28 46 21 33-1549 EA 9 To 40 VDC, 10 Amp, Form C, Multi-Voltage Relay Module (Notifier PAM-4)	59.95	22.88
28 46 21 33-1550 Gamewell-FCI Fire Control Instruments (28 46 21 33-0982)		
28 46 21 33-1551 7100 Series And NetSOLO® (28 46 21 33-1550)		
28 46 21 33-1552 7100 Compact Analog Addressable Fire Alarm Control Panels (28 46 21 33-1551)		
28 46 21 33-1553 EA Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M)	768.66	274.49
28 46 21 33-1554 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2)	3,176.84	457.49
28 46 21 33-1555 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D)	3,432.54	457.49
28 46 21 33-1556 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 VAC (Gamewell-FCI BK-7100-2-E)	3,176.84	457.49
28 46 21 33-1557 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 VAC (Gamewell-FCI BK-7100-2D-E)	3,432.54	457.49
28 46 21 33-1558 EA Replacement Board For 7100-1D (Gamewell-FCI BSM-7100-1)	879.30	45.75
28 46 21 33-1559 EA Replacement Board For 7100-2 (Gamewell-FCI BSM-7100-1D)	1,050.36	45.75
28 46 21 33-1560 EA Analog Loop Unit (Gamewell-FCI ALU)	1,050.36	45.75
28 46 21 33-1561 NetSOLO® Intelligent Network (28 46 21 33-1551)		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1562 EA Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO) Note: Mounted in 7100 panel.	1,162.90	45.75
28 46 21 33-1563 EA Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP) Note: Mounted in 7100 panel.	927.92	45.75
28 46 21 33-1564 Components And Accessories (28 46 21 33-1551)		
28 46 21 33-1565 EA Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100).....	578.21	34.31
28 46 21 33-1566 EA Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100)	448.03	45.75
28 46 21 33-1567 EA Fiber Optic Line Driver Module (Gamewell-FCI FLD-1)	805.47	45.75
28 46 21 33-1568 EA Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM).....	336.39	45.75
28 46 21 33-1569 EA Replacement Enclosure Box (Gamewell-FCI EN-7100)	297.33	91.50
28 46 21 33-1570 EA Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2).....	830.85	22.88
28 46 21 33-1571 E3 Series® Basic System (28 46 21 33-1550)		
28 46 21 33-1572 EA Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3).....	795.61	45.75
28 46 21 33-1573 EA Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3).....	689.71	45.75
28 46 21 33-1574 EA Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3)	795.61	45.75
28 46 21 33-1575 EA Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3).....	689.71	45.75
28 46 21 33-1576 EA LCD Keypad Display (Gamewell-FCI LCD-E3)	500.40	45.75
28 46 21 33-1577 EA Power Supply Module (Gamewell-FCI PM-9)	649.61	45.75
28 46 21 33-1578 EA Transponder 9 Ampere Power Supply (Gamewell-FCI PM-9 INX)	549.68	45.75
28 46 21 33-1579 EA Power Supply And Charger, 120/220 VAC (Gamewell-FCI PM-9G 9A)	534.08	22.88
28 46 21 33-1580 EA Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3)	320.96	45.75
28 46 21 33-1581 EA Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO).....	826.95	45.75
28 46 21 33-1582 EA Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP)	696.03	45.75
28 46 21 33-1583 EA Local Operating Console (Gamewell-FCI 1100-0455)	466.54	34.31
28 46 21 33-1584 EA Network Graphic Annunciator (Gamewell-FCI 1100-0505).....	1,471.14	34.31
28 46 21 33-1585 EA 70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70)	597.63	45.75
28 46 21 33-1586 EA INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326).....	1,781.16	45.75
28 46 21 33-1587 EA 8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1)	446.28	91.50
28 46 21 33-1588 EA C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC)	338.92	91.50
28 46 21 33-1589 EA Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP)	75.57	22.88
28 46 21 33-1590 EA Programmable Switch Module (Gamewell-FCI ASM-16)	424.65	45.75
28 46 21 33-1591 EA LED Driver module (Gamewell-FCI ANU-48).....	424.65	45.75
28 46 21 33-1592 EA Network Graphic Annunciator (Gamewell-FCI NGA)	1,235.03	34.31
28 46 21 33-1593 Addressable Devices, Module, Pulls And Accessories (28 46 21 33-1550)		
28 46 21 33-1594 Velociti® Series Sensors And Bases (28 46 21 33-1593)		
28 46 21 33-1595 EA Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F).....	142.45	34.31
28 46 21 33-1596 EA Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F).....	145.15	34.31
28 46 21 33-1597 EA Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F)	153.25	34.31
28 46 21 33-1598 EA Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F).....	120.84	34.31
28 46 21 33-1599 EA Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F).....	125.34	34.31
28 46 21 33-1600 EA Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F).....	120.84	34.31
28 46 21 33-1601 EA Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F).....	172.16	34.31
28 46 21 33-1602 EA Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS).....	361.23	34.31
28 46 21 33-1603 EA Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF)	316.95	57.19
28 46 21 33-1604 EA Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF).....	352.96	57.19
28 46 21 33-1605 EA Replacement Duct Detector Board (Gamewell-FCI ADP-F-SB).....	183.70	57.19
28 46 21 33-1606 EA Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF)	37.29	11.43
28 46 21 33-1607 EA Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F)	388.24	34.31
28 46 21 33-1608 EA Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXP).....	79.15	11.43
28 46 21 33-1609 EA Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F).....	1,352.71	68.62
28 46 21 33-1610 Velociti® Series Modules And Pull Station (28 46 21 33-1593)		
28 46 21 33-1611 EA Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2F)	102.92	22.88
28 46 21 33-1612 EA Dual Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2IF).....	160.09	22.88
28 46 21 33-1613 EA Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4F).....	111.93	22.88
28 46 21 33-1614 EA Subloop Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4SF)	153.79	22.88
28 46 21 33-1615 EA Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF).....	129.93	22.88
28 46 21 33-1616 EA Addressable Output Supervised Module (Gamewell-FCI AOM-2SF).....	134.43	22.88
28 46 21 33-1617 EA Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF)	193.69	45.75
28 46 21 33-1618 EA Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF)	138.49	22.88
28 46 21 33-1619 EA Telephone Filters (Gamewell-FCI AOM-TEL-FL).....	22.66	4.58
28 46 21 33-1620 Components And Accessories (28 46 21 33-1593)		
28 46 21 33-1621 EA Remote LED Annunciator Alarm (Gamewell-FCI RA400Z)..... Note: Mounts on single gang box.	59.10	18.30
28 46 21 33-1622 EA Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5).....	29.55	9.15
28 46 21 33-1623 EA >2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3).....	31.35	9.15
28 46 21 33-1624 EA >4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5).....	37.74	11.43
28 46 21 33-1625 EA >8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10).....	58.96	13.73

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1626 EA Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451)..... Note: Mounts on single gang box.	87.01	18.30
28 46 21 33-1627 Fixed And Rate of Rise Heat Detectors (28 46 21 33-1593)		
28 46 21 33-1628 EA 135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P)	83.93	34.31
28 46 21 33-1629 EA 194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602)	83.93	34.31
28 46 21 33-1630 EA 135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603)	83.93	34.31
28 46 21 33-1631 EA 194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604)	83.93	34.31
28 46 21 33-1632 NAC Expander/Power Supply (28 46 21 33-1593)		
28 46 21 33-1633 EA FireForce 8 NAC Expander/Power Supply, 12/24 VDC, 8 Amp, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8).....	1,380.21	365.98
28 46 21 33-1634 EA 6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6).....	1,209.15	365.98
28 46 21 33-1635 EA 9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9).....	1,294.68	365.98
28 46 21 33-1636 Batteries And Accessories (28 46 21 33-1550)		
28 46 21 33-1637 EA B-17R, 12 VDC, 17 Amp Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A)	200.61	22.88
28 46 21 33-1638 EA B-55R, 12 VDC, 55 Amp Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A)	494.12	22.88
28 46 21 33-1639 EA B-7R, 12 VDC, 7 Amp Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A)	110.57	22.88
28 46 21 33-1640 EA BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653)	254.46	45.75
28 46 21 33-1641 EA BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654)	254.46	45.75
28 46 21 33-1642 EA 12"H x 12"W x 24"L Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970).....	228.35	45.75
28 46 21 33-1643 Electronic Door Holders (28 46 21 33-1550)		
Note: Rixson products.		
28 46 21 33-1644 EA XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000).....	35.62	4.58
28 46 21 33-1645 EA FM-980, Floor Mount Door Holder, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90000).....	284.70	34.31
28 46 21 33-1646 EA FM-981, Floor Mount Holder For Double Doors, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90001)	382.84	34.31
28 46 21 33-1647 EA FM-990, Low Profile Mount Door Holder, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90002)	186.92	34.31
28 46 21 33-1648 EA FM-996, Surface Mount Door Holder, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90003)	178.82	34.31
28 46 21 33-1649 EA FM-997 Recessed Mount Door Holder, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90004)	186.92	34.31
28 46 21 33-1650 EA FM-998, Recessed Mount Door Holder With Concealed Wiring, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90005)	186.56	34.31
28 46 21 33-1651 SpectrAlert® Advance Wall Mount 2-Wire Horn/Strobes (28 46 21 33-1550)		
See CSI section 28 46 21 33-1839 for devices.		
28 46 21 33-1652 SpectrAlert® Advance Accessories (28 46 21 33-1550)		
See CSI section 28 46 21 33-1839 for backboxes, 28 46 21 33-2104 for backboxes.		
28 46 21 33-1653 Fire Alarm Programming (28 46 21 33-1550)		
Note: For device replacement projects only. Do not use these tasks on projects where a fire alarm panel is replaced.		
28 46 21 33-1654 EA Program And Test Up To 5 Fire Alarm Devices.....	500.00	
28 46 21 33-1655 EA Program And Test >5 To 20 Fire Alarm Devices	1,000.00	
28 46 21 33-1656 EA Program And Test >20 To 50 Fire Alarm Devices	2,000.00	
28 46 21 33-1657 Fire-Lite Fire Alarm (28 46 21 33-0981)		
28 46 21 33-1658 Addressable Control Panels (28 46 21 33-1657)		
28 46 21 33-1659 EA 25 Point Intelligent Control (Fire Lite MS-25).....	1,433.21	457.49
28 46 21 33-1660 EA 50 Point Intelligent Control (Fire Lite MS-9050UD)	1,559.30	457.49
28 46 21 33-1661 EA 198-Point Intelligent Control (Fire Lite MS-9200UDLS)	2,211.13	457.49
28 46 21 33-1662 EA 636-Point Intelligent Control (Fire Lite MS-9600LS)	3,221.56	457.49
28 46 21 33-1663 EA 636-Point Intelligent Control (Fire Lite MS-9600UDLS)	3,101.25	457.49
28 46 21 33-1664 Silent Knight Fire Alarm (28 46 21 33-0981)		
28 46 21 33-1665 EA Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL- EVS)	3,278.39	228.74
28 46 21 33-1666 EA Supervised Remote Command Unit (Silent Knight EVS-RCU).....	1,371.79	137.25
28 46 21 33-1667 EA 50 Watt Amplifier (Silent Knight EVS-50W)	960.67	91.50
28 46 21 33-1668 EA 125 Watt Amplifier (Silent Knight EVS-125W)	1,691.78	91.50
28 46 21 33-1669 EA Voice Evacuation System (Silent Knight SKE-450)	1,619.32	91.50
28 46 21 33-1670 EA Fire Fighters Telephone (Silent Knight SK-FFT).....	1,347.58	91.50
28 46 21 33-1671 EA Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL)	1,391.20	137.25
28 46 21 33-1672 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808)	1,031.84	91.50
28 46 21 33-1673 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700)	794.47	91.50
28 46 21 33-1674 EA Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600)	688.41	91.50
28 46 21 33-1675 EA Combination Fire And CO Detector (Silent Knight SK-FIRE-CO)	221.00	34.31
28 46 21 33-1676 EA Photoelectric Detector (Silent Knight SK-PHOTO)	129.96	34.31
28 46 21 33-1677 EA Photoelectric Thermal Detector (Silent Knight SK-PHOTO-T).....	136.30	34.31
28 46 21 33-1678 EA Ionization Smoke Detector (Silent Knight SK-ION).....	137.01	34.31
28 46 21 33-1679 EA 135 Degree Fixed Temperature Detector (Silent Knight SK-HEAT)	120.63	34.31
28 46 21 33-1680 EA 190 Degree Fixed Temperature Detector (Silent Knight SK-HEAT-HT)	126.42	34.31
28 46 21 33-1681 EA 135 Degree Fixed Temperature Rate-of-Rise Detector (Silent Knight SK-HEAT-ROR)	128.55	34.31

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1682 EA Sounder Base (Silent Knight B200SR)	75.04	11.43
28 46 21 33-1683 EA Intelligent Sounder Base (Silent Knight B200S)	79.27	11.43
28 46 21 33-1684 EA Isolator Base (Silent Knight B224BI)	63.07	11.43
28 46 21 33-1685 EA Relay Base (Silent Knight B224RB)	63.76	11.43
28 46 21 33-1686 EA Multi-Criteria Photoelectric Detector With Thermal Sensing (Silent Knight SK-ACCLIMATE)	139.22	34.31
28 46 21 33-1687 EA Photoelectric Duct Detector (Silent Knight SK-DUCT)	218.35	34.31
28 46 21 33-1688 EA Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM)	746.66	34.31
28 46 21 33-1689 EA Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM-T)	851.47	34.31
28 46 21 33-1690 EA Dual Monitor Module (Silent Knight SK-MONITOR-2)	163.66	34.31
28 46 21 33-1691 EA Supervised Control Module (Silent Knight SK-CONTROL)	137.86	34.31
28 46 21 33-1692 EA Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6)	445.03	45.75
28 46 21 33-1693 EA Relay Control Module (Silent Knight SK-RELAY)	116.35	22.88
28 46 21 33-1694 EA Six Relay Control Module (Silent Knight SK-RELAY-6)	430.62	45.75
28 46 21 33-1695 EA Zone Interface Module (Silent Knight SK-ZONE)	140.58	34.31
28 46 21 33-1696 EA Six Zone Interface Module (Silent Knight SK-ZONE-6)	513.11	45.75
28 46 21 33-1697 EA Monitor Module (Silent Knight SK-MONITOR)	122.20	34.31
28 46 21 33-1698 EA 10 Input Monitor Module (Silent Knight SK-MON-10)	497.41	45.75
28 46 21 33-1699 EA Monitor Module (Silent Knight SK-MINIMON)	114.45	34.31
28 46 21 33-1700 EA Fault Isolator Module (Silent Knight SK-ISO)	126.42	34.31
28 46 21 33-1701 EA Addressable Heat Sensor (Silent Knight SD505-AHS)	124.32	34.31
28 46 21 33-1702 EA Analog Ionization Smoke Detector (Silent Knight SD505-AIS)	134.31	34.31
28 46 21 33-1703 EA Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS)	126.42	34.31
28 46 21 33-1704 EA 6" Addressable Sounder Base (Silent Knight SD505-6SB)	91.27	11.43
28 46 21 33-1705 EA 6" Addressable Relay Base (Silent Knight SD505-6RB)	86.32	11.43
28 46 21 33-1706 EA 6" Isolator Base (Silent Knight SD505-6IB)	78.58	11.43
28 46 21 33-1707 EA Addressable Input Module (Silent Knight SD500-AIM)	125.73	34.31
28 46 21 33-1708 EA Addressable Notification Module (Silent Knight SD500-ANM)	152.80	34.31
28 46 21 33-1709 EA Addressable Relay Module (Silent Knight SD500-ARM)	137.86	34.31
28 46 21 33-1710 EA SLC Annunciator Driver Module (Silent Knight SD500-LED)	518.28	68.62
28 46 21 33-1711 EA Loop Isolation Module (Silent Knight SD500-LIM)	130.65	34.31
28 46 21 33-1712 EA Addressable Mini Input Module (Silent Knight SD500-MIM)	101.45	22.88
28 46 21 33-1713 EA Single Action Addressable Pull Station (Silent Knight SD500-PS)	128.57	22.88
28 46 21 33-1714 EA Dual Action Addressable Pull Station (Silent Knight SD500-PSDA)	123.14	22.88
28 46 21 33-1715 EA Back Box (Silent Knight SK-PSSMBB)	59.32	18.30
28 46 21 33-1716 EA Smoke Detector Module (Silent Knight SD500-SDM)	144.65	34.31
28 46 21 33-1717 EA Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB)	35.77	11.43
28 46 21 33-1718 EA Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB)	35.77	11.43
28 46 21 33-1719 EA Addressable Duct Housing (Silent Knight SD505-DUCT)	227.63	34.31
28 46 21 33-1720 EA Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR)	292.56	34.31
28 46 21 33-1721 EA Addressable Duct Detector Test Switch (Silent Knight SD505-DTS)	129.25	34.31
28 46 21 33-1722 EA Intelligent Power Module (Silent Knight 5895XL)	744.71	91.50
28 46 21 33-1723 EA Addressable Power Supply (Silent Knight 5496)	520.90	68.62
28 46 21 33-1724 EA Relay Interface Board (Silent Knight 5883)	198.13	22.88
28 46 21 33-1725 EA Remote LED Annunciator (Silent Knight 5865-3)	407.05	45.75
28 46 21 33-1726 EA Remote LED Annunciator (Silent Knight 5865-4)	459.19	45.75
28 46 21 33-1727 EA Remote LCD Annunciator (Silent Knight SK-5860)	443.64	68.62
28 46 21 33-1728 EA Serial/Parallel Printer Interface (Silent Knight 5824)	280.29	22.88
28 46 21 33-1729 EA LED Input/Output Module (Silent Knight / IntelliKnight 5880)	331.79	34.31
28 46 21 33-1730 EA Addressable Pull Station (Silent Knight SK-Pull-DA/SA)	123.14	22.88
28 46 21 33-1731 EA Digital Fire Communicator with Cabinet (Silent Knight SK-5104)	425.30	68.62
28 46 21 33-1732 EA Communicator (Silent Knight IPGSM-4G)	610.10	45.75
28 46 21 33-1733 EA Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208)	971.02	91.50
28 46 21 33-1734 EA 10 Zone Expander (Silent Knight SK-5217)	271.02	22.88
28 46 21 33-1735 EA Remote Annunciator (Silent Knight SK-5235)	279.66	45.75
28 46 21 33-1736 EA Status Display Module (Silent Knight 5280)	84.53	22.88
28 46 21 33-1737 EA Serial/Parallel Module (Silent Knight 5824)	326.04	45.75
28 46 21 33-1738 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4)	566.64	91.50
28 46 21 33-1739 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E)	577.11	91.50
28 46 21 33-1740 EA Dress Panel (Silent Knight SK-DP2/4)	109.19	22.88
28 46 21 33-1741 EA Class A Convertor (Silent Knight SK-CAC4)	275.34	34.31
28 46 21 33-1742 EA Transmitter Module (Silent Knight SK-4XTM)	151.44	34.31
28 46 21 33-1743 EA LED Interface Module (Silent Knight SK-4XLM)	140.58	34.31
28 46 21 33-1744 EA 110 VAC Transformer, 3-6A (Silent Knight SK-XRM24)	139.43	22.88
28 46 21 33-1745 EA Remote Annunciator (Silent Knight SK-RZA4)	140.58	34.31
28 46 21 33-1746 EA Zone Relay Module (Silent Knight SK-4XZM)	150.08	34.31
28 46 21 33-1747 EA Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2)	494.61	91.50
28 46 21 33-1748 EA Remote Battery Box Accessory Cabinet (Silent Knight RBB)	123.14	22.88
28 46 21 33-1749 EA Manual Pull Station (single action) (Silent Knight PS-SATK)	72.04	22.88
28 46 21 33-1750 EA Manual Pull Station (dual action) (Silent Knight PS-DATK)	77.28	22.88
28 46 21 33-1751 EA Manual Pull Station (dual action) (Silent Knight PS-DA)	75.81	22.88
28 46 21 33-1752 EA Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH)	68.62	22.88
28 46 21 33-1753 EA Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB)	144.51	27.45
28 46 21 33-1754 EA 6 Amp, 24 VDC, Distributed Power Module (with cabinet) (Silent Knight SK-5495)	490.78	68.62
28 46 21 33-1755 EA 9 Amp, 24 VDC, Distributed Power Module (with cabinet) (Silent Knight SK-5499)	548.39	68.62
28 46 21 33-1756 EA Detector (Silent Knight IDP-PhotoR)	178.52	34.31
28 46 21 33-1757 EA Monitoring Module (Silent Knight IDP)	178.61	34.31
28 46 21 33-1758 EA Cabinet (Silent Knight SK-5207)	252.93	68.62
28 46 21 33-1759 EA Innovair IDP-Product (Silent Knight Innovair IDP-Pduct)	334.95	22.88
28 46 21 33-1760 EA I/O Input-Output Module (Silent Knight SK-2880)	450.63	22.88
28 46 21 33-1761 EA Remote Annunciator (Silent Knight RA-2000)	1,294.05	68.62
28 46 21 33-1762 EA Power Supply (Silent Knight 5195/96)	797.67	22.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1763 EA 8 Zone Expander (Silent Knight SK-5210).....	624.15	22.88
28 46 21 33-1764 EA LCD Remote Annunciator (Silent Knight SK-5230).....	266.41	45.75
28 46 21 33-1765 EA Ionization Smoke Detector (Silent Knight SK-ION).....	137.01	34.31
28 46 21 33-1766 EA Addressable Relay Module (Silent Knight IDP-Relay).....	155.38	34.31
28 46 21 33-1767 EA Telephone Line Monitor (Silent Knight SK-7150).....	97.81	22.88
28 46 21 33-1768 EA Serial Driver Board (Silent Knight SK-2884).....	174.15	22.88
28 46 21 33-1769 EA Smoke Detector Base (Silent Knight IDP-6AB).....	51.80	11.43
28 46 21 33-1770 EA Mini Input Module (Silent Knight IDP-MINIMON).....	132.51	22.88
28 46 21 33-1771 EA Status Display Module (Silent Knight SK-4180).....	462.20	22.88
28 46 21 33-1772 EA 8-Channel Digital Communicator (Silent Knight SK-1420).....	277.11	22.88
28 46 21 33-1773 EA Serial Parallel Module (Silent Knight SK-4824).....	253.97	22.88
28 46 21 33-1774 EA Power Supply (Silent Knight SK-5197 / SK-5198).....	913.35	22.88
28 46 21 33-1775 EA 4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204).....	1,571.15	91.50
28 46 21 33-1776 EA Intelligent Ionization Smoke Detector (Silent Knight IDP-ION).....	184.30	34.31
28 46 21 33-1777 EA Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo).....	155.38	34.31
28 46 21 33-1778 EA Fire Slave Communicator Dialer (Silent Knight SK-5128).....	298.00	22.88
28 46 21 33-1779 EA Intelligent Power Module (with cabinet) (Silent Knight SK-5496).....	520.90	68.62
28 46 21 33-1780 Alerton (28 46 21 33)		
28 46 21 33-1781 EA UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100).....	430.79	6.86
28 46 21 33-1782 Cooper Fire Alarm (28 46 21 33)		
28 46 21 33-1783 EA Single Circuit Class A / Multiple B, 12 Or 24 VDC, Sync Module (Cooper DSM-12/24-R).....	152.23	22.88
28 46 21 33-1784 EA Red Lens, 21 Joules, 24 VDC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001).....	2,520.67	38.89
28 46 21 33-1785 EA Red, 100 dB, 24 VDC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002).....	3,319.30	38.89
28 46 21 33-1786 EA Red Lens, 5 Joules, 24 VDC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001).....	1,224.66	45.75
28 46 21 33-1787 EA Clear Lens, 5 Joules, 24 VDC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002).....	1,231.76	45.75
28 46 21 33-1788 EA Amber Lens, 5 Joules, 110 VAC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007).....	1,231.76	45.75
28 46 21 33-1789 EA Red Lens, 10 Joules, 24 VDC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001).....	917.63	45.75
28 46 21 33-1790 EA Amber Lens, 10 Joules, 120 VAC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003).....	917.63	45.75
28 46 21 33-1791 EA Red Lens, 10 Joules, 120 VAC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004).....	917.63	45.75
28 46 21 33-1792 EA Amber Lens, 15 Joules, 120 VAC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005).....	1,231.76	45.75
28 46 21 33-1793 EA Amber Lens, 15 Joules, 120 VAC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006).....	1,231.76	45.75
28 46 21 33-1794 EA Red Lens, 15 Joules, 120 VAC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007).....	1,231.76	45.75
28 46 21 33-1795 EA Red Lens, 15 Joules, 120 VAC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008).....	1,231.76	45.75
28 46 21 33-1796 EA Red Lens, 15 Joules, 24 VDC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002).....	1,231.76	45.75
28 46 21 33-1797 EA Red Lens, 21 Joules, 24 VDC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001).....	1,415.44	45.75
28 46 21 33-1798 EA Red Lens, 21 Joules, 24 VDC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003).....	1,316.06	45.75
28 46 21 33-1799 EA Amber Lens, 21 Joules, 110 VAC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005).....	1,316.06	45.75
28 46 21 33-1800 EA Red Lens, 21 Joules, 110 VAC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006).....	1,316.06	45.75
28 46 21 33-1801 Light Engineered Displays Message Boards (28 46 21 33)		
28 46 21 33-1802 EA Two Message Sign, "Announcement" And "Evacuate" (LED SP-2/MNS).....	449.78	27.45
28 46 21 33-1803 EA Four Message Sign, "Fire", "Weather", "Announcement", "E Voltuate" (LED SP-4).....	547.38	27.45
28 46 21 33-1804 STI Fire Alarm (28 46 21 33)		
28 46 21 33-1805 EA Pull Station Polycarbonate Cover, Semi Flush With Horn (STI-1100).....	106.27	13.73
Note: Include 9 VDC self contained battery.		
28 46 21 33-1806 EA Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130).....	140.14	13.73
28 46 21 33-1807 EA Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200).....	94.32	13.73
28 46 21 33-1808 EA Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D).....	85.52	13.73
Note: For surface mounted horn strobes.		
28 46 21 33-1809 EA Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E).....	75.85	13.73
28 46 21 33-1810 EA Strobe Damage Stopper And Open Backbox With Conduit Knockout (STI-1221D).....	85.52	13.73
Note: For surface mounted strobe.		
28 46 21 33-1811 EA Strobe Damage Stopper And Open Backbox, Semi Flush (STI-1221E).....	85.33	13.73
28 46 21 33-1812 EA NEMA 4X Rated Polycarbonate Dome Cover (STI-1229).....	174.75	13.73
28 46 21 33-1813 EA Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230).....	113.68	13.73
Note: For surface mounted pull stations.		
28 46 21 33-1814 EA Backplate For Polycarbonate Cover (STI-1280).....	52.07	13.73
28 46 21 33-1815 EA Conduit Gasket For Polycarbonate Cover (STI-3003).....	36.55	13.73
28 46 21 33-1816 EA Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100).....	61.84	13.73
28 46 21 33-1817 EA Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150).....	117.96	13.73

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1818 EA 8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A)	104.43	13.73
28 46 21 33-1819 EA 24.7" x 19.7" x 7.3", Key Lock, Lockable Enclosure (STI-7550)	548.33	13.73
28 46 21 33-1820 EA Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100)	84.24	13.73
28 46 21 33-1821 EA Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601)	77.59	13.73
28 46 21 33-1822 EA Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602)	71.37	13.73
28 46 21 33-1823 EA Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604)	77.59	13.73
28 46 21 33-1824 EA Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605)	71.37	13.73
28 46 21 33-1825 EA Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609)	77.59	13.73
28 46 21 33-1826 EA Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610)	71.37	13.73
28 46 21 33-1827 EA Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625)	130.38	13.73
28 46 21 33-1828 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705)	65.61	13.73
28 46 21 33-1829 EA Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R)	65.61	13.73
28 46 21 33-1830 EA Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706)	100.21	13.73
28 46 21 33-1831 EA Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707)	100.21	13.73
28 46 21 33-1832 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708)	71.82	13.73
28 46 21 33-1833 EA Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R)	71.82	13.73
28 46 21 33-1834 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711)	65.61	13.73
28 46 21 33-1835 EA Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713)	71.37	13.73
28 46 21 33-1836 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714)	71.82	13.73
28 46 21 33-1837 EA Yellow, "High Threat", Push Button Station (STI SS-2201)	74.74	6.86
28 46 21 33-1838 EA Gasket Kit For STI Covers (STI SUB-121)	33.02	
28 46 21 33-1839 System Sensor Fire Alarm (28 46 21 33)		
28 46 21 33-1840 Smoke Detectors (28 46 21 33-1839)		
28 46 21 33-1841 EA Beam Detector Heater Kit (System Sensor BEAMHK)	44.64	4.58
28 46 21 33-1842 EA Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR)	182.19	4.58
Note: Four used with long range kit.		
28 46 21 33-1843 EA Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK)	226.38	45.75
28 46 21 33-1844 EA Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK)	166.93	45.75
28 46 21 33-1845 EA Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK)	136.76	45.75
28 46 21 33-1846 EA Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B)	125.81	34.31
28 46 21 33-1847 EA Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B)	128.07	34.31
28 46 21 33-1848 EA Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B)	131.97	34.31
28 46 21 33-1849 EA Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B)	127.79	34.31
28 46 21 33-1850 EA Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 VDC (System Sensor 4WT-B)	136.95	34.31
28 46 21 33-1851 EA Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B)	135.05	34.31
28 46 21 33-1852 EA Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B)	164.45	34.31
28 46 21 33-1853 EA Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151)	97.22	22.88
28 46 21 33-1854 EA Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T)	109.64	22.88
Note: Requires B100 series base.		
28 46 21 33-1855 EA Heavy Duty Multi-Mount Kit (System Sensor 6500-MMK)	207.45	11.43
28 46 21 33-1856 EA Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy Duty Multi-Mount Kit (System Sensor 6500-SMK)	71.68	11.43
28 46 21 33-1857 Duct Smoke Detectors (28 46 21 33-1839)		
28 46 21 33-1858 EA Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2)	266.72	34.31
28 46 21 33-1859 EA Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120)	269.61	34.31
28 46 21 33-1860 EA Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W)	346.86	38.89
28 46 21 33-1861 EA Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S)	175.30	22.88
28 46 21 33-1862 EA Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL)	47.45	6.86
28 46 21 33-1863 EA Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR)	150.98	18.30
28 46 21 33-1864 EA Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW)	245.49	22.88
28 46 21 33-1865 EA 1' Steel Sampling Tube (System Sensor DST1)	28.06	9.15
28 46 21 33-1866 EA 1.5' Steel Sampling Tube (System Sensor DST1.5)	30.28	9.15
28 46 21 33-1867 EA 3' Steel Sampling Tube (System Sensor DST3)	34.72	9.15
28 46 21 33-1868 EA 5' Steel Sampling Tube (System Sensor DST5)	40.92	11.43
28 46 21 33-1869 EA 10' Steel Sampling Tube (System Sensor DST10)	64.50	13.73
28 46 21 33-1870 EA 1', Steel, Exhaust Tube Duct (System Sensor ETX)	31.17	9.15
28 46 21 33-1871 EA Remote Test Station For Duct Smoke Detector (System Sensor RTS151)	72.35	11.43
28 46 21 33-1872 EA Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2)	155.29	
28 46 21 33-1873 EA Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B)	166.82	
28 46 21 33-1874 Heat Detectors (28 46 21 33-1839)		
28 46 21 33-1875 EA Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P)	87.10	34.31
28 46 21 33-1876 EA Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602)	87.10	34.31
28 46 21 33-1877 EA Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621)	101.18	34.31
28 46 21 33-1878 EA Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622)	101.18	34.31
28 46 21 33-1879 Horns (28 46 21 33-1839)		
28 46 21 33-1880 EA Red, Mini Horn (System Sensor MHR)	93.02	34.31
28 46 21 33-1881 EA White, Mini Horn (System Sensor MHW)	93.02	34.31
28 46 21 33-1882 EA White, 12/24 VDC, Wall Mounted Horn Only (System Sensor HW)	105.45	34.31
28 46 21 33-1883 EA Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R)	117.70	38.89
28 46 21 33-1884 EA Red, Interior, Wall Mounted, Horn (System Sensor HR)	105.14	34.31



Electronic Safety And Security			28
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Fire Detection And Alarm			28 46

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1885	EA	Red, Outdoor, Wall Mounted, Horn (System Sensor HRK).....	125.81	34.31	
28 46 21 33-1886 Wall Mounted Horns/Strobes (28 46 21 33-1839)					
28 46 21 33-1887	EA	Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2R).....	136.06	34.31	
28 46 21 33-1888	EA	Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH).....	141.38	34.31	
28 46 21 33-1889	EA	Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK).....	180.70	38.89	
28 46 21 33-1890	EA	Plain, Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P).....	180.70	38.89	
28 46 21 33-1891	EA	Low Frequency, Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH-LF).....	189.30	34.31	
28 46 21 33-1892	EA	Outdoor Backbox, Red, 120 VAC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120).....	194.01	38.89	
28 46 21 33-1893	EA	Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK).....	170.50	38.89	
28 46 21 33-1894	EA	Plain, Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P).....	175.38	38.89	
28 46 21 33-1895	EA	Replacement, Outdoor, Red, , Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R).....	152.92	34.31	
28 46 21 33-1896	EA	Plain, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2R-P).....	136.06	34.31	
28 46 21 33-1897	EA	White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2W).....	136.06	34.31	
28 46 21 33-1898	EA	White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH).....	142.27	34.31	
28 46 21 33-1899	EA	Low Frequency, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-LF).....	189.30	34.31	
28 46 21 33-1900	EA	Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK).....	180.70	38.89	
28 46 21 33-1901	EA	Plain, Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P).....	180.70	38.89	
28 46 21 33-1902	EA	Plain, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P).....	141.38	34.31	
28 46 21 33-1903	EA	Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK).....	175.38	38.89	
28 46 21 33-1904	EA	Plain, Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P).....	175.38	38.89	
28 46 21 33-1905	EA	Plain, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2W-P).....	136.06	34.31	
28 46 21 33-1906	EA	Red, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4R).....	153.97	34.31	
28 46 21 33-1907	EA	Red, Four Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH).....	157.49	34.31	
28 46 21 33-1908	EA	Outdoor Backbox, Red, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK).....	181.60	38.89	
28 46 21 33-1909	EA	Replacement, Outdoor, Red, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R).....	171.83	38.89	
28 46 21 33-1910	EA	White, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4W).....	154.69	34.31	
28 46 21 33-1911	EA	Outdoor Backbox, White, Four Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor PC4WHK).....	177.15	38.89	
28 46 21 33-1912	EA	Outdoor Backbox, White, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK).....	182.48	38.89	
28 46 21 33-1913 Ceiling Mounted Horns/Strobes (28 46 21 33-1839)					
28 46 21 33-1914	EA	Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R).....	136.06	34.31	
28 46 21 33-1915	EA	Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH).....	143.16	34.31	
28 46 21 33-1916	EA	Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK).....	180.70	38.89	
28 46 21 33-1917	EA	Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK).....	175.38	38.89	
28 46 21 33-1918	EA	Plain, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P).....	136.95	34.31	
28 46 21 33-1919	EA	White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W).....	136.06	34.31	
28 46 21 33-1920	EA	White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH).....	143.16	34.31	
28 46 21 33-1921	EA	Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK).....	180.70	38.89	
28 46 21 33-1922	EA	Plain, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P).....	143.16	34.31	
28 46 21 33-1923	EA	Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK).....	175.38	38.89	
28 46 21 33-1924	EA	Plain, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P).....	136.06	34.31	
28 46 21 33-1925	EA	Red, Ceiling Mounted, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4R).....	153.97	34.31	

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1926	EA	Red, Ceiling Mounted, Four Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH)	157.49	34.31	
28 46 21 33-1927	EA	White, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4W)	154.69	34.31	
28 46 21 33-1928 Wall Mounted Strobes (28 46 21 33-1839)					
28 46 21 33-1929	EA	White Strobe Expander Plate Backbox Skirt (System Sensor SEP-BBSW)	53.05	11.43	
28 46 21 33-1930	EA	White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW)	99.19	11.43	
28 46 21 33-1931	EA	Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SR)	122.30	34.31	
28 46 21 33-1932	EA	Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH)	134.61	34.31	
28 46 21 33-1933	EA	Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK)	163.12	38.89	
28 46 21 33-1934	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK)	161.36	38.89	
28 46 21 33-1935	EA	Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P)	162.07	38.89	
28 46 21 33-1936	EA	Replacement Unit, Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R)	142.55	38.89	
28 46 21 33-1937	EA	Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SR-P)	122.75	34.31	
28 46 21 33-1938	EA	White, 12/24 VDC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW)	122.75	34.31	
28 46 21 33-1939	EA	White, Amber Lens, 12/24 VDC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW-ALERT)	132.51	34.31	
28 46 21 33-1940	EA	White, Clear Lens, 12/24 VDC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW-CLR-ALERT)	129.85	34.31	
28 46 21 33-1941	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH)	135.17	34.31	
28 46 21 33-1942	EA	White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT)	134.28	34.31	
28 46 21 33-1943	EA	White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P)	134.28	34.31	
28 46 21 33-1944	EA	Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P)	163.84	38.89	
28 46 21 33-1945	EA	White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK)	163.84	38.89	
28 46 21 33-1946	EA	White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P)	163.84	38.89	
28 46 21 33-1947	EA	Replacement Unit, Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R)	146.10	38.89	
28 46 21 33-1948	EA	White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK)	162.07	38.89	
28 46 21 33-1949	EA	White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P)	162.07	38.89	
28 46 21 33-1950	EA	White, Plain, 12/24 VDC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW-P)	121.86	34.31	
28 46 21 33-1951	EA	Amber, Wall Strobe Lens Attachment (System Sensor LENS-A)	18.91	4.58	
28 46 21 33-1952	EA	Blue, Wall Strobe Lens Attachment (System Sensor LENS-B)	18.91	4.58	
28 46 21 33-1953	EA	Green, Wall Strobe Lens Attachment (System Sensor LENS-G)	18.91	4.58	
28 46 21 33-1954	EA	Red, Wall Strobe Lens Attachment (System Sensor LENS-R)	18.91	4.58	
28 46 21 33-1955 Ceiling Mounted Strobes (28 46 21 33-1839)					
28 46 21 33-1956	EA	Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCR)	122.30	34.31	
28 46 21 33-1957	EA	Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH)	136.37	34.31	
28 46 21 33-1958	EA	Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK)	163.12	38.89	
28 46 21 33-1959	EA	Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK)	163.12	38.89	
28 46 21 33-1960	EA	White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW)	122.75	34.31	
28 46 21 33-1961	EA	Clear Lens, White, Two Wire, 12/24 VDC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCW-CLR-ALERT)	129.85	34.31	
28 46 21 33-1962	EA	White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH)	136.95	34.31	
28 46 21 33-1963	EA	Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK)	163.84	38.89	
28 46 21 33-1964	EA	Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK)	162.07	38.89	
28 46 21 33-1965	EA	Plain, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P)	123.64	34.31	
28 46 21 33-1966	EA	Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC)	18.91	4.58	
28 46 21 33-1967	EA	Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC)	18.91	4.58	
28 46 21 33-1968	EA	Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC)	18.91	4.58	
28 46 21 33-1969	EA	Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC)	18.91	4.58	
28 46 21 33-1970 Wall Mounted Speakers (28 46 21 33-1839)					



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1971	EA		24 VDC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V).....	289.57	34.31
28 46 21 33-1972	EA		Red, Wall Mounted Speaker (System Sensor SPR).....	102.94	34.31
28 46 21 33-1973	EA		Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK).....	148.93	34.31
28 46 21 33-1974	EA		Replacement Unit, Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R).....	130.57	38.89
28 46 21 33-1975	EA		Red, High dB, Wall Mounted Speaker (System Sensor SPRV).....	112.62	34.31
28 46 21 33-1976	EA		White, Wall Mounted Speaker (System Sensor SPW).....	103.23	34.31
28 46 21 33-1977	EA		White, Outdoor, Wall Mounted Speaker (System Sensor SPWK).....	158.08	38.89
28 46 21 33-1978	EA		White, High dB, Wall Mounted Speaker (System Sensor SPWV).....	112.99	34.31
28 46 21 33-1979 Ceiling Mounted Speakers (28 46 21 33-1839)					
28 46 21 33-1980	EA		Red, Ceiling Mounted Speaker (System Sensor SPCR).....	102.94	34.31
28 46 21 33-1981	EA		Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK).....	148.25	34.31
28 46 21 33-1982	EA		Red, High dB, Ceiling Mounted Speaker (System Sensor SPCRK).....	112.62	34.31
28 46 21 33-1983	EA		White, Ceiling Mounted Speaker (System Sensor SPCW).....	103.23	34.31
28 46 21 33-1984	EA		White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV).....	112.99	34.31
28 46 21 33-1985	EA		White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK).....	158.08	38.89
28 46 21 33-1986 Wall Mounted Speakers/Strobes (28 46 21 33-1839)					
28 46 21 33-1987	EA		White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSW).....	107.18	11.43
28 46 21 33-1988	EA		White Speaker Strobe Expander Plate Backbox Skirt (System Sensor SPSEP-BBSW).....	53.05	11.43
28 46 21 33-1989	EA		Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSR).....	158.37	34.31
28 46 21 33-1990	EA		Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH).....	168.05	34.31
28 46 21 33-1991	EA		Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK).....	222.08	38.89
28 46 21 33-1992	EA		Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P).....	223.30	38.89
28 46 21 33-1993	EA		Replacement Unit, Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R).....	191.35	38.89
28 46 21 33-1994	EA		Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSR-P).....	159.13	34.31
28 46 21 33-1995	EA		Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV).....	162.77	34.31
28 46 21 33-1996	EA		White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSW-ALERT).....	178.65	34.31
28 46 21 33-1997	EA		White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT).....	226.85	38.89
28 46 21 33-1998	EA		White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSW).....	159.13	34.31
28 46 21 33-1999	EA		White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH).....	168.89	34.31
28 46 21 33-2000	EA		White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P).....	168.89	34.31
28 46 21 33-2001	EA		White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK).....	223.30	38.89
28 46 21 33-2002	EA		White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P).....	223.30	38.89
28 46 21 33-2003	EA		White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSW-P).....	159.13	34.31
28 46 21 33-2004	EA		White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV).....	163.57	34.31
28 46 21 33-2005	EA		White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P).....	163.57	34.31
28 46 21 33-2006 Ceiling Mounted Speakers/Strobes (28 46 21 33-1839)					
28 46 21 33-2007	EA		Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCR).....	158.37	34.31
28 46 21 33-2008	EA		Red, Selectable Candela (135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRH).....	169.81	34.31
28 46 21 33-2009	EA		Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRV).....	162.77	34.31
28 46 21 33-2010	EA		White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCW).....	159.13	34.31
28 46 21 33-2011	EA		White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCW-CLR-ALERT).....	170.67	34.31
28 46 21 33-2012	EA		White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH).....	168.89	34.31
28 46 21 33-2013	EA		White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWHK).....	225.96	38.89
28 46 21 33-2014	EA		White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH-P).....	168.89	34.31
28 46 21 33-2015	EA		White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK-CLR-ALERT).....	226.85	38.89
28 46 21 33-2016	EA		White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK).....	223.30	38.89
28 46 21 33-2017	EA		White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCW-P).....	159.13	34.31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-2018 EA White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV)	163.57	34.31
28 46 21 33-2019 EA White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH)	168.89	34.31
28 46 21 33-2020 EA White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P)	163.57	34.31
28 46 21 33-2021 EA High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRVH)	168.63	34.31
28 46 21 33-2022 Electric Alarm Bells (28 46 21 33-1839)		
28 46 21 33-2023 EA 6" 24 Volt DC Alarm Bell (System Sensor SSM24-6)	122.75	34.31
28 46 21 33-2024 EA 8" 24 Volt DC Alarm Bell (System Sensor SSM24-8)	132.51	34.31
28 46 21 33-2025 EA 10" 24 Volt DC Alarm Bell (System Sensor SSM24-10)	155.05	34.31
28 46 21 33-2026 EA 6" 120 Volt AC Alarm Bell (System Sensor SSV120-6)	119.21	34.77
28 46 21 33-2027 EA 8" 120 Volt AC Alarm Bell (System Sensor SSV120-8)	120.38	34.77
28 46 21 33-2028 EA 10" 120 Volt AC Alarm Bell (System Sensor SSV120-10)	127.77	34.77
28 46 21 33-2029 Device Bases (28 46 21 33-1839)		
28 46 21 33-2030 EA High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S)	91.21	11.43
28 46 21 33-2031 EA Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR)	88.99	11.43
28 46 21 33-2032 EA Intelligent Isolator Base (System Sensor B224BI)	73.68	11.43
28 46 21 33-2033 EA Intelligent Relay Base (System Sensor B224RB)	74.79	11.43
28 46 21 33-2034 EA Flangeless, Intelligent Detector Base (System Sensor B501)	43.07	11.43
28 46 21 33-2035 Boxes, Plates And Decals (28 46 21 33-1839)		
28 46 21 33-2036 EA Two Wire, Flanged, 12/24 VDC, Low-Profile, Adapter Base (System Sensor B110LP)	37.52	11.43
28 46 21 33-2037 EA Four Wire, Form A And C, 24 VDC Low-Profile, Adapter Base (System Sensor B112LP)	70.49	13.73
28 46 21 33-2038 EA Conventional Flanged Mounting Base (System Sensor B210LP)	36.19	11.43
28 46 21 33-2039 EA 120 VAC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K)	68.14	11.43
28 46 21 33-2040 EA Red, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBB)	60.15	11.43
28 46 21 33-2041 EA White, Ceiling Mounted, Metal, Weatherproof Backbox (System Sensor MWBBCW)	66.36	11.43
28 46 21 33-2042 EA White, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBBW)	60.15	11.43
28 46 21 33-2043 EA Red Retrofit Plate (System Sensor RFP)	29.35	6.86
28 46 21 33-2044 EA White Retrofit Plate (System Sensor RFPW)	29.35	6.86
28 46 21 33-2045 EA Red, Wall Mounted, Weatherproof Backbox (System Sensor SA-WBB)	51.28	11.43
28 46 21 33-2046 EA Red, Ceiling Mounted, Weatherproof Backbox (System Sensor SA-WBBC)	52.61	11.43
28 46 21 33-2047 EA Red, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCR)	43.73	11.43
28 46 21 33-2048 EA White, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCW)	43.73	11.43
28 46 21 33-2049 EA Red, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBR)	37.52	11.43
28 46 21 33-2050 EA Red, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPR)	41.96	11.43
28 46 21 33-2051 EA White, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPW)	41.96	11.43
28 46 21 33-2052 EA White, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBW)	37.52	11.43
28 46 21 33-2053 EA Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500)	37.08	11.43
28 46 21 33-2054 EA Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600)	37.08	11.43
28 46 21 33-2055 EA Red, Wall Mounted, Trim Ring (System Sensor TR)	15.63	4.58
28 46 21 33-2056 EA Red, Ceiling Mounted, Trim Ring (System Sensor TRC)	15.63	4.58
28 46 21 33-2057 EA White, Ceiling Mounted, Trim Ring (System Sensor TRCW)	15.63	4.58
28 46 21 33-2058 EA Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS)	13.54	4.58
28 46 21 33-2059 EA White, Wall Mounted, Trim Ring (System Sensor TRW)	15.63	4.58
28 46 21 33-2060 EA Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R)	19.98	
28 46 21 33-2061 EA Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC)	27.76	
28 46 21 33-2062 EA White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W)	19.98	
28 46 21 33-2063 EA White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC)	27.76	
28 46 21 33-2064 Chimes (28 46 21 33-1839)		
28 46 21 33-2065 EA Red, 12/24 VDC, Ceiling Or Wall Mounted Chime (System Sensor CHR)	108.55	34.31
28 46 21 33-2066 EA White, 12/24 VDC, Ceiling Or Wall Mounted Chime (System Sensor CHW)	108.55	34.31
28 46 21 33-2067 Chime/Strobes (28 46 21 33-1839)		
28 46 21 33-2068 EA Red, 15, 15/75, 30, 75, 110 Multi-Candela, 24 VDC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSR)	191.96	34.31
28 46 21 33-2069 EA White, 15, 15/75, 30, 75, 110 Multi-Candela, 24 VDC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSW)	191.96	34.31
28 46 21 33-2070 Carbon Monoxide Detectors (28 46 21 33-1839)		
28 46 21 33-2071 EA Conventional Carbon Monoxide Detector (System Sensor CO1224)	202.81	45.75
28 46 21 33-2072 EA Round, Sounder And Trouble Relay With Test Function, 12/24 VDC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR)	180.87	34.31
28 46 21 33-2073 EA CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE)	12.70	4.58
28 46 21 33-2074 Switches (28 46 21 33-1839)		
28 46 21 33-2075 EA SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1)	152.83	18.30
28 46 21 33-2076 EA Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2)	170.58	18.30

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-2077 EA SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1)	152.83	18.30
28 46 21 33-2078 EA Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2)	170.58	18.30
28 46 21 33-2079 EA Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2)	156.38	18.30
28 46 21 33-2080 EA Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2)	147.51	18.30
28 46 21 33-2081 Low Frequency Sounders (28 46 21 33-1839)		
28 46 21 33-2082 EA Red, Low Frequency Sounder (System Sensor HR-LF)	137.83	34.31
28 46 21 33-2083 EA White, Low Frequency Sounder (System Sensor HW-LF)	137.83	34.31
28 46 21 33-2084 Sync Modules (28 46 21 33-1839)		
28 46 21 33-2085 EA Red, 12/24 VDC, Sync Module (System Sensor MDL3R)	121.18	22.88
28 46 21 33-2086 EA White, 12/24 VDC, Sync Module (System Sensor MDL3W)	121.18	22.88
28 46 21 33-2087 Relays (28 46 21 33-1839)		
28 46 21 33-2088 EA Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E)	69.16	18.30
28 46 21 33-2089 EA SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T)	44.53	11.43
28 46 21 33-2090 EA 4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E)	127.59	11.43
28 46 21 33-2091 EA 4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T)	94.09	11.43
28 46 21 33-2092 EA Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E)	74.21	18.30
28 46 21 33-2093 EA DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T)	45.95	11.43
28 46 21 33-2094 EA 4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E)	143.56	11.43
28 46 21 33-2095 EA 4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T)	107.18	11.43
28 46 21 33-2096 EA 18 To 35 VDC, 18 To 35 VAC, 120 VAC, SPDT Multivoltage Relay (System Sensor PR-1)	38.85	11.43
28 46 21 33-2097 EA 10 To 40 VDC, SPDT Multivoltage Relay (System Sensor PR-2)	38.85	11.43
28 46 21 33-2098 EA Redundant Power Input, 10 To 40 VDC, SPDT Multivoltage Relay (System Sensor PR-3)	38.85	11.43
28 46 21 33-2099 Remote Annunciator (28 46 21 33-1839)		
28 46 21 33-2100 EA Remote Annunciator (System Sensor RA100Z)	80.86	34.31
28 46 21 33-2101 EA Remote LED Annunciator (System Sensor RA100ZA)	85.83	34.31
28 46 21 33-2102 Remote Test Station (28 46 21 33-1839)		
28 46 21 33-2103 EA Remote Test Station With Key (System Sensor RTS151KEY)	107.80	34.31
28 46 21 33-2104 Wheelock Fire Alarm (28 46 21 33)		
28 46 21 33-2105 Ceiling Mounted Chimes/Strobes (28 46 21 33-2104)		
28 46 21 33-2106 EA White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 VDC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW)	223.02	34.31
28 46 21 33-2107 Wall Mounted Chimes/Strobes (28 46 21 33-2104)		
28 46 21 33-2108 EA Red, Selectable Candela (15, 30, 75, 110 Candela), 24 VDC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FR)	223.02	34.31
28 46 21 33-2109 EA White, Selectable Candela (15, 30, 75, 110 Candela), 24 VDC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FW)	223.02	34.31
28 46 21 33-2110 Ceiling Mounted Horns/Strobes (28 46 21 33-2104)		
28 46 21 33-2111 EA Red, Two Wire, 12/24 VDC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC)	140.50	34.31
28 46 21 33-2112 EA White, Two Wire, 12/24 VDC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC)	140.50	34.31
28 46 21 33-2113 Wall Mounted Horns/Strobes (28 46 21 33-2104)		
28 46 21 33-2114 EA Red, Weatherproof, 24 VDC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR)	150.26	34.31
28 46 21 33-2115 EA Red, 24 VDC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4-241575 Watt-FR)	169.78	34.31
28 46 21 33-2116 EA Red, 24 VDC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR)	158.24	34.31
28 46 21 33-2117 EA White, 24 VDC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW)	158.24	34.31
28 46 21 33-2118 EA Red, Flush, 24 VAC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt-FR)	161.79	34.31
28 46 21 33-2119 EA Red, 24 VAC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR)	155.14	34.31
28 46 21 33-2120 EA Red, 115 VAC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR)	154.69	34.31
28 46 21 33-2121 EA Red, Weatherproof, 24 VDC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR)	174.49	38.89
28 46 21 33-2122 EA Red, Two Wire, 12/24 VDC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR)	140.94	34.31
28 46 21 33-2123 EA White, Two Wire, 12/24 VDC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW)	140.94	34.31
28 46 21 33-2124 Ceiling Mounted Strobes (28 46 21 33-2104)		
28 46 21 33-2125 EA Red, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR)	125.85	34.31
28 46 21 33-2126 EA White, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW)	125.85	34.31
28 46 21 33-2127 EA Red, Two Wire, 12/24 VDC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC)	128.07	34.31
28 46 21 33-2128 EA White, Two Wire, 12/24 VDC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC)	128.07	34.31

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-2129 Wall Mounted Strobes (28 46 21 33-2104)				
28 46 21 33-2130	EA	Red, Multi-Candela, 24 VDC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR).....	192.85	34.31
28 46 21 33-2131	EA	Red, Retrofit Plate, 12 VDC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR)	157.36	34.31
28 46 21 33-2132	EA	Red, 24 VDC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR)	138.72	34.31
28 46 21 33-2133	EA	Red, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR)	129.85	34.31
28 46 21 33-2134	EA	White, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW)	129.85	34.31
28 46 21 33-2135	EA	Red, Retrofit Plate, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP-24MCW-FR)	142.71	34.31
28 46 21 33-2136	EA	Outdoor, Red, 24 VDC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR).....	146.98	38.89
Note: Requires WPSBB-R.				
28 46 21 33-2137	EA	Red, Two Wire, 12/24 VDC, Multi-Candela, Wall Mounted Strobe (Wheelock STR)	128.07	34.31
28 46 21 33-2138	EA	White, Two Wire, 12/24 VDC, Multi-Candela, Wall Mounted Strobe (Wheelock STW).....	128.07	34.31
28 46 21 33-2139 Ceiling Mounted Speakers/Strobes (28 46 21 33-2104)				
28 46 21 33-2140	EA	Red, 24 VDC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR)	168.00	34.31
28 46 21 33-2141	EA	White, 24 VDC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW)	168.00	34.31
28 46 21 33-2142	EA	White, 24 VDC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW)	166.23	34.31
28 46 21 33-2143	EA	White, 24 VDC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW)	168.00	34.31
28 46 21 33-2144	EA	White, 24 VDC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	179.10	34.31
28 46 21 33-2145	EA	White, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW)	183.09	34.31
28 46 21 33-2146 Wall Mounted Speakers/Strobes (28 46 21 33-2104)				
28 46 21 33-2147	EA	Red, Square, 24 VDC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR).....	184.86	34.31
28 46 21 33-2148	EA	White, Square, 24 VDC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW)	184.86	34.31
28 46 21 33-2149	EA	Red, 24 VDC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FR)	179.10	34.31
28 46 21 33-2150	EA	White, 24 VDC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	179.10	34.31
28 46 21 33-2151	EA	Red, Square, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR).....	168.00	34.31
28 46 21 33-2152	EA	White, Square, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW).....	164.45	34.31
28 46 21 33-2153	EA	Red, 24 VDC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR)	179.10	34.31
28 46 21 33-2154	EA	White, 24 VDC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW).....	179.10	34.31
28 46 21 33-2155	EA	Red, Square, 24 VDC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR)	183.09	34.31
28 46 21 33-2156	EA	Red, Square, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR).....	168.00	34.31
28 46 21 33-2157	EA	White, Square, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW).....	164.45	34.31
28 46 21 33-2158	EA	Red, 24 VDC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR)	179.10	34.31
28 46 21 33-2159	EA	White, 24 VDC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW).....	183.09	34.31
28 46 21 33-2160	EA	Red, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR).....	183.09	34.31
28 46 21 33-2161	EA	White, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW)	183.09	34.31
28 46 21 33-2162	EA	Weatherproof, Red, 24 VDC, 75 Candela, Wall Mounted Speaker Strobe (Wheelock ET70WP-2475 W-FR)	199.78	38.89
Note: Requires weatherproof backbox (IOB).				
28 46 21 33-2163 Electric Alarm Bells (28 46 21 33-2104)				
28 46 21 33-2164	EA	6", 24 VDC, Red, Vibrating Bell (Wheelock 43T-G6-24-R)	143.60	34.31
28 46 21 33-2165	EA	6", 115 VAC, Red, Vibrating Bell (Wheelock 43T-G6-115-R)	143.60	34.31
28 46 21 33-2166	EA	10", 115 VAC, Red, Vibrating Bell (Wheelock 43T-G10-115-R)	184.86	34.31
28 46 21 33-2167	EA	115 VAC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSX10-115-R)	1,241.10	38.89
28 46 21 33-2168	EA	Outdoor, 115 VAC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSXG10-115-R)	1,958.97	38.89
28 46 21 33-2169	EA	Vibrating, Outdoor, 115 VAC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CVXG10-115-R)	1,830.31	38.89
28 46 21 33-2170	EA	6", ADA, 24 VDC, Red, Motor Bell (Wheelock MB-G6-24-R).....	116.98	34.31
28 46 21 33-2171	EA	10", ADA, 24 VDC, Red, Motor Bell (Wheelock MB-G10-24-R).....	137.83	34.31
28 46 21 33-2172 Horns (28 46 21 33-2104)				
28 46 21 33-2173	EA	Two Wire, 24 VDC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non Sync Horn (Wheelock AH-24WP-R).....	104.11	34.31
28 46 21 33-2174	EA	Red, Two Wire, 12/24 VDC, Wall Mounted Horn (Wheelock HNR)	103.67	34.31
28 46 21 33-2175	EA	White, Two Wire, 12/24 VDC, Wall Mounted Horn (Wheelock HNW)	103.67	34.31
28 46 21 33-2176	EA	Red, Two Wire, 12/24 VDC, Ceiling Mounted Horn (Wheelock HNR).....	104.11	34.31
28 46 21 33-2177	EA	White, Two Wire, 12/24 VDC, Ceiling Mounted Horn (Wheelock HNC)	104.11	34.31
28 46 21 33-2178	EA	Red, 24 VDC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R)	89.03	34.31
28 46 21 33-2179	EA	White, 24 VDC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W)	89.03	34.31
28 46 21 33-2180	EA	Red, Flush, 12/24 VAC, Horn (Wheelock MT-12/24-R)	101.90	34.31
28 46 21 33-2181 Speakers (28 46 21 33-2104)				
28 46 21 33-2182	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Mounted Speaker (Wheelock E50-R)	106.78	34.31



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28 46 21 33-2183 EA White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Mounted Speaker (Wheelock E50-W)	106.78	34.31
28 46 21 33-2184 EA Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Ceiling Mounted Speaker (Wheelock E60-R)	106.78	34.31
28 46 21 33-2185 EA White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Ceiling Mounted Speaker (Wheelock E60-W)	104.56	34.31
28 46 21 33-2186 EA Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E70-R)	106.78	34.31
28 46 21 33-2187 EA White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E70-W)	106.78	34.31
28 46 21 33-2188 EA Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E90-R)	106.78	34.31
28 46 21 33-2189 EA White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E90-W)	106.78	34.31
28 46 21 33-2190 EA Red, Flush Or Surface, Square, 1/8 - 8 Watts, Wall Mounted Speaker (Wheelock ET70-R)	120.97	34.31
28 46 21 33-2191 EA White, Flush Or Surface, Square, 1/8 - 8 Watts, Wall Mounted Speaker (Wheelock ET70-W)	120.97	34.31
28 46 21 33-2192 EA White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watts Ceiling Mounted Speaker (Wheelock ET90-W)	122.75	34.31
28 46 21 33-2193 EA Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watts, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R)	135.62	34.31
28 46 21 33-2194 EA Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watts, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R)	129.85	34.31
28 46 21 33-2195 EA Grey, 1 To 15 Watts, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15S)	245.20	34.31
28 46 21 33-2196 EA Red, 1 To 15 Watts, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15SR)	245.20	34.31
28 46 21 33-2197 Sync Modules (28 46 21 33-2104)		
28 46 21 33-2198 EA 12 Or 24 VDC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R)	114.96	22.88
28 46 21 33-2199 Boxes, Plates And Rings (28 46 21 33-2104)		
28 46 21 33-2200 EA 4" Square, Red, Surface Backbox (Wheelock BB-R)	31.09	11.43
28 46 21 33-2201 EA Standard 4" Square Box (Wheelock BB-STD)	28.74	11.43
28 46 21 33-2202 EA Black, Backbox For UZC-256 (Wheelock BB-UZC)	157.56	22.88
28 46 21 33-2203 EA Red, Backbox For UZC-256 (Wheelock BB-UZC-R)	157.56	22.88
28 46 21 33-2204 EA 9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP)	117.34	18.30
28 46 21 33-2205 EA Red, Extender Ring For E60 Series (Wheelock E60EXT-R)	16.91	4.58
28 46 21 33-2206 EA White, Extender Ring For E60 Series (Wheelock E60EXT-W)	16.69	4.58
28 46 21 33-2207 EA Red, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-R)	40.18	11.43
28 46 21 33-2208 EA White, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-W)	38.41	11.43
28 46 21 33-2209 EA Red, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-R)	41.07	11.43
28 46 21 33-2210 EA White, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-W)	41.07	11.43
28 46 21 33-2211 EA 4" Square Backbox (Wheelock DBB-R)	33.08	11.43
28 46 21 33-2212 EA Red, Surface Backbox (Wheelock IOB-R)	39.30	11.43
28 46 21 33-2213 EA White, Surface, Backbox (Wheelock IOB-W)	39.30	11.43
28 46 21 33-2214 EA White, Indoor, Surface Extender (Wheelock ISP2-W)	16.03	4.58
28 46 21 33-2215 EA Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R)	16.69	4.58
28 46 21 33-2216 EA White, RS/RSS Strobe Trim Plate (Wheelock NATP-W)	16.69	4.58
28 46 21 33-2217 EA Red Retrofit Plate (Wheelock RP-R)	19.35	4.58
28 46 21 33-2218 EA 4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4)	27.78	4.58
28 46 21 33-2219 EA Red, Surface Mounted, Backbox For Chimes, Speakers (Wheelock SBB-R)	41.07	11.43
28 46 21 33-2220 EA White, Surface Mounted, Backbox For Chimes, Speaker (Wheelock SBB-W)	41.07	11.43
28 46 21 33-2221 EA Red, Surface Mounted, Backbox For With RSSP (Wheelock SBL2-R)	44.40	11.43
28 46 21 33-2222 EA Red, Semi-Flush Plate (Wheelock SFB-R)	17.36	4.58
28 46 21 33-2223 EA White, Semi-Flush Plate (Wheelock SFB-W)	17.36	4.58
28 46 21 33-2224 EA Red, Shallow Surface Mounted, Backbox (Wheelock SHBB-R)	36.19	11.43
28 46 21 33-2225 EA White, Shallow Surface Mounted, Backbox (Wheelock SHBB-W)	36.19	11.43
28 46 21 33-2226 EA Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R)	24.01	4.58
28 46 21 33-2227 EA Red, Weatherproof Backbox (Wheelock WBB)	51.28	11.43
28 46 21 33-2228 EA Weather Resistant Backbox (Wheelock WBB-R)	41.07	11.43
28 46 21 33-2229 EA Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R)	30.67	4.58
28 46 21 33-2230 EA White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W)	30.67	4.58
28 46 21 33-2231 EA Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFP-R)	30.67	4.58
28 46 21 33-2232 EA White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFP-W)	30.67	4.58
28 46 21 33-2233 EA Gasket Kit For Rear Wiring To Outdoor Backbox (Wheelock WP-KIT)	17.36	4.58
28 46 21 33-2234 EA Weather Resistant Backbox For ASWP (Wheelock WPBB-R)	43.29	11.43
28 46 21 33-2235 EA Weather Resistant Backbox For RSSWP (Wheelock WPSBB-R)	41.07	11.43
28 46 21 33-2236 Manual Pull Station (28 46 21 33-2104)		
28 46 21 33-2237 EA SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100)	86.95	22.88
28 46 21 33-2238 EA SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200)	86.95	22.88
28 46 21 33-2239 EA Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X)	667.79	22.88
28 46 21 33-2240 Fire Alarm Terminal Cabinets (28 46 21 33)		
28 46 21 33-2241 EA 18 Point Lockable Fire Alarm Terminal Cabinet	163.49	45.82
28 46 21 33-2242 EA 32 Point Lockable Fire Alarm Terminal Cabinet	206.62	45.82
28 46 21 33-2243 EA 64 Point Lockable Fire Alarm Terminal Cabinet	292.87	45.82
28 46 21 33-2244 EA 128 Point Lockable Fire Alarm Terminal Cabinet	379.10	45.82
28 47 Mass Notification (28 40)		
28 47 00 00-0001 Voice Capable Omni-Directional Speakers (28 47)		
28 47 00 00-0002 EA 1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A)	8,013.94	583.71
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		

28 Electronic Safety And Security**28 40 Life Safety****28 47 Mass Notification**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 00 00-0003 EA 2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	9,712.70	609.09
28 47 00 00-0004 EA 3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	11,411.48	634.47
28 47 00 00-0005 EA 4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	13,110.24	659.84
28 47 00 00-0006 EA 5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	14,786.81	685.23
28 47 00 00-0007 EA 6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	18,082.83	710.60
28 47 00 00-0008 EA 7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	19,781.59	735.98
28 47 00 00-0009 EA 8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	21,613.46	761.36
28 47 00 00-0010 EA 9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	23,334.40	786.74
28 47 00 00-0011 EA 10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	25,033.17	812.11
28 47 00 00-0012 EA 3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	17,772.25	710.60
28 47 00 00-0013 EA 4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	18,916.41	735.98
28 47 00 00-0014 EA One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL).....	387.38	22.88
28 47 00 00-0015 EA VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV)	1,270.31	22.88
28 47 00 00-0016 EA UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU).....	1,310.24	22.88
28 47 00 00-0017 EA UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU)	1,310.24	22.88
28 47 00 00-0018 EA VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV).....	1,270.31	22.88
28 47 00 00-0019 EA Two-Tone Sequential Option (Whelen WPSTT)	311.96	22.88
28 47 00 00-0020 EA Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS).....	449.50	22.88
28 47 00 00-0021 EA Landline, 10 Digit DTMF (Whelen C2030LL)	476.12	22.88
28 47 00 00-0022 EA VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV)	1,580.88	22.88
28 47 00 00-0023 EA UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU).....	1,580.88	22.88
28 47 00 00-0024 EA UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU).....	1,580.88	22.88
28 47 00 00-0025 EA VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV).....	1,580.88	22.88
28 47 00 00-0026 EA Option To Convert WPS Activation Controls To FSK Format (Whelen FSXMOD)	569.29	22.88
28 47 00 00-0027 EA Cabinet Window LED Status Indicator (Whelen STATUS)	334.14	22.88
28 47 00 00-0028 EA Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT).....	294.21	22.88
28 47 00 00-0029 EA Intrusion Alarm (Whelen INTRUWPS)	223.22	22.88
28 47 00 00-0030 EA Custom Pre-Recorded Messages (One Time Set-Up Charge Per Message) (Whelen MSGPROG)	155.29	
28 47 00 00-0031 EA Whelen Library Messages (Whelen MSGPROGL)	31.06	
28 47 00 00-0032 EA Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC)	121.18	22.88
28 47 00 00-0033 EA One Pair Of Whelen Approved Batteries (Whelen WPSBATT).....	605.47	34.31
28 47 00 00-0034 EA WPS And OA Series, Roof Top Mounted (Whelen RTM)	7,380.01	558.33
28 47 00 00-0035 EA Two 80 Watt Panels, Solar Power System (Whelen SBC280)..... Note: Includes mounting bracket and regulator.	2,936.57	137.25
28 47 00 00-0036 EA Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA)	1,488.40	34.31
28 47 00 00-0037 EA Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB).....	1,488.40	34.31
28 47 00 00-0038 EA Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC)	1,488.40	34.31
28 47 00 00-0039 EA Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG).....	1,488.40	34.31
28 47 00 00-0040 EA Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR)	1,488.40	34.31
28 47 00 00-0041 EA Amber, 24 VDC, LED, Beacon (Whelen L31HAF4)	561.99	34.31
28 47 00 00-0042 EA Blue, 24 VDC, LED, Beacon (Whelen L31HBF4).....	561.99	34.31
28 47 00 00-0043 EA Red, 24 VDC, LED, Beacon (Whelen L31HRF4)	561.99	34.31
28 47 00 00-0044 EA Amber, 24 VDC, Strobe (Whelen ISB24A).....	454.62	34.31
28 47 00 00-0045 EA Blue, 24 VDC, Strobe (Whelen ISB24B)	454.62	34.31
28 47 00 00-0046 EA Clear, 24 VDC, Strobe (Whelen ISB24C)	454.62	34.31
28 47 00 00-0047 EA Green, 24 VDC, Strobe (Whelen ISB24G).....	454.62	34.31
28 47 00 00-0048 EA Red, 24 VDC, Strobe (Whelen ISB24R)	454.62	34.31
28 47 00 00-0049 EA Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCWPS)	578.17	22.88
28 47 00 00-0050 EA Strobe Controller (Whelen STCTRL)	480.56	22.88
28 47 00 00-0051 EA LED Controller (Whelen LEDCTRL).....	480.56	22.88
28 47 00 00-0052 EA Replacement Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL).....	246.09	34.31
28 47 00 00-0053 EA Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS)	404.83	
28 47 00 00-0054 EA 400 Watt Speaker Driver (Whelen SPKDRV)	666.90	22.88
28 47 00 00-0055 EA Cabinet Window LED Status Indicator (Whelen STATUS)	334.14	22.88
28 47 00 00-0056 EA Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC).....	121.18	22.88
28 47 00 00-0057 EA Notifier/Whelen Interface Board (Whelen NAUXCS).....	600.35	22.88
28 47 00 00-0058 Tone Only, Omni-Alert Sirens (28 47)		
28 47 00 00-0059 EA One Cell, Tone Only, Omni-Alert Siren (Whelen OA1)	7,069.43	558.33
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 00 00-0060 EA Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2)	8,639.53	583.71
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 00 00-0061 EA Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3).....	10,209.62	609.09
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 00 00-0062 EA Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4)	11,784.17	634.47
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 00 00-0063 EA One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen OAUIN).....	209.91	22.88
28 47 00 00-0064 EA One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL)	387.38	22.88
28 47 00 00-0065 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OD2030NV)	1,270.31	22.88
28 47 00 00-0066 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OD2030NU)	1,310.24	22.88



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 00 00-0067	EA		UHF Wide-Band, 10 Digit DTMF (Whelen OD230WU).....	1,310.24	22.88
28 47 00 00-0068	EA		VHF High-Wide Band, 10 Digit DTMF (Whelen OD230WV).....	1,270.31	22.88
28 47 00 00-0069	EA		One-Way Control Two-Tone Sequential Option (Whelen OTT).....	311.96	22.88
28 47 00 00-0070	EA		Two Way Controls, Contact Closure Activation Board (Whelen OAUXXCS).....	449.50	22.88
28 47 00 00-0071	EA		Two Way Landline Activation (Whelen OC2030LL).....	476.12	22.88
28 47 00 00-0072	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen OC230NV).....	1,580.88	22.88
28 47 00 00-0073	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen OC230NU).....	1,580.88	22.88
28 47 00 00-0074	EA		UHF, 10 Digit DTMF (Whelen OC230WU).....	1,580.88	22.88
28 47 00 00-0075	EA		VHF High Band, 10 Digit DTMF (Whelen OC230WV).....	1,580.88	22.88
28 47 00 00-0076	EA		Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD).....	569.29	22.88
28 47 00 00-0077	EA		Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT).....	294.21	22.88
28 47 00 00-0078	EA		Cabinet Window LED Status Indicator (Whelen OSTATUS).....	334.14	22.88
28 47 00 00-0079	EA		Intrusion Alarm (Whelen OINTRU).....	178.85	22.88
28 47 00 00-0080	EA		80 Watt Solar Power Option (Whelen OSBC280).....	2,936.57	137.25
28 47 00 00-0081	EA		One Pair Of Whelen Approved Batteries For Omnialet (Whelen BSETO).....	547.79	34.31
28 47 00 00-0082	Tone-Only Rotating Directional Speakers (28 47)				
28 47 00 00-0083	EA		3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3).....	13,775.76	659.84
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 00 00-0084	EA		4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4).....	14,720.26	685.23
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 00 00-0085	EA		Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN).....	209.91	22.88
28 47 00 00-0086	EA		Landline, 10 Digit DTMF (Whelen VD2030LL).....	387.38	22.88
28 47 00 00-0087	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV).....	1,270.31	22.88
28 47 00 00-0088	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU).....	1,310.24	22.88
28 47 00 00-0089	EA		UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU).....	1,310.24	22.88
28 47 00 00-0090	EA		VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV).....	1,270.31	22.88
28 47 00 00-0091	EA		Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LI, VD2020H, VD2020U) (Whelen VORTT).....	311.96	22.88
28 47 00 00-0092	EA		Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS).....	449.50	22.88
28 47 00 00-0093	EA		Landline, 10 Digit DTMF (Whelen VC2030LL).....	476.12	22.88
28 47 00 00-0094	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV).....	1,580.88	22.88
28 47 00 00-0095	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU).....	1,580.88	22.88
28 47 00 00-0096	EA		UHF, 10 Digit DTMF (Whelen VC230WU).....	1,580.88	22.88
28 47 00 00-0097	EA		VHF High Band, 10 Digit DTMF (Whelen VC230WV).....	1,580.88	22.88
28 47 00 00-0098	EA		Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFSKXMOD).....	569.29	22.88
28 47 00 00-0099	EA		Cabinet Window LED Status Indicator (Whelen VSTATUS).....	334.14	22.88
28 47 00 00-0100	EA		Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT).....	294.21	22.88
28 47 00 00-0101	EA		Vortex Intrusion Alarm (Whelen VINTRU).....	178.85	22.88
28 47 00 00-0102	EA		Speaker Pole Top Bracket (Whelen VPTB).....	458.37	22.88
28 47 00 00-0103	EA		80 Watt Solar Power Option (Whelen VSBC280).....	2,936.57	137.25
28 47 00 00-0104	EA		One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR).....	547.79	34.31
28 47 00 00-0105	EA		Program Charge For Custom VROM Message (Whelen VPROG).....	1,977.93	
28 47 00 00-0106	Uni-Directional Rotating Speakers (28 47)				
28 47 00 00-0107	EA		118 dB, Uni-Directional Rotating Speaker (Whelen HORNET).....	9,256.25	583.71
28 47 00 00-0108	EA		One Way Contact Closure Activation Control Board (Whelen HAUXIN).....	209.91	22.88
28 47 00 00-0109	EA		Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL).....	387.38	22.88
28 47 00 00-0110	EA		VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV).....	1,270.31	22.88
28 47 00 00-0111	EA		UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU).....	1,310.24	22.88
28 47 00 00-0112	EA		UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU).....	1,310.24	22.88
28 47 00 00-0113	EA		VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV).....	1,270.31	22.88
28 47 00 00-0114	EA		Two-Tone Sequential Option For Hornet (Whelen HORTT).....	311.96	22.88
28 47 00 00-0115	EA		Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS).....	449.50	22.88
28 47 00 00-0116	EA		Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL).....	476.12	22.88
28 47 00 00-0117	EA		VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV).....	1,580.88	22.88
28 47 00 00-0118	EA		UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU).....	1,580.88	22.88
28 47 00 00-0119	EA		UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU).....	1,580.88	22.88
28 47 00 00-0120	EA		VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV).....	1,580.88	22.88
28 47 00 00-0121	EA		Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD).....	569.29	22.88
28 47 00 00-0122	EA		LED Status Indicator (Whelen HSTATUS).....	334.14	22.88
28 47 00 00-0123	EA		Option For Paging Interface (Whelen HPGINT).....	294.21	22.88
28 47 00 00-0124	EA		Intrusion Alarm (Whelen HINTRU).....	178.85	22.88
28 47 00 00-0125	EA		Solar Power Option (Whelen HSBC280).....	2,936.57	137.25
28 47 00 00-0126	EA		Pole Top Bracket For Speaker (Whelen HPTB).....	458.37	22.88
28 47 00 00-0127	EA		One Pair Of Whelen Approved Batteries (Whelen BSETF).....	547.79	34.31
28 47 00 00-0128	All Hazard In-Plant Personnel Warning System (28 47)				
28 47 00 00-0129	EA		400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400).....	4,924.65	731.97
28 47 00 00-0130	EA		800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800).....	5,959.51	823.47
28 47 00 00-0131	EA		15 Watt, Wide Angle Speaker (Whelen WS15T).....	268.28	34.31
28 47 00 00-0132	EA		Recess Mounted, 15 Watt Speaker (Whelen WS15TR).....	219.47	34.31
28 47 00 00-0133	EA		With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN).....	419.13	34.31
28 47 00 00-0134	EA		30 Watt, Wide Angle Speaker (Whelen WS30T).....	330.39	34.31
28 47 00 00-0135	EA		60 Watt, Wide Angle Speaker (Whelen WS60T).....	676.46	34.31
28 47 00 00-0136	EA		Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXPL6T).....	1,036.12	38.89
28 47 00 00-0137	EA		100 Watt, Wide Angle Speaker (Whelen WS100).....	472.37	34.31
28 47 00 00-0138	EA		Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH).....	716.67	38.89

28 Electronic Safety And Security**28 40 Life Safety****28 47 Mass Notification**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 00 00-0139 EA Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU).....	223.22	22.88
28 47 00 00-0140 Firehouse Siren (28 47)		
28 47 00 00-0141 EA Auxiliary Board Contact Closure (Whelen FAUXIN).....	209.91	22.88
28 47 00 00-0142 EA Two-Tone Sequential Option (Whelen FTT).....	311.96	22.88
28 47 00 00-0143 EA Auxiliary/Status Control Board (Whelen FAUXCS).....	449.50	22.88
28 47 00 00-0144 EA Landline, 10 Digit DTMF (Whelen FC2030LL).....	476.12	22.88
28 47 00 00-0145 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV).....	1,580.88	22.88
28 47 00 00-0146 EA UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU).....	1,580.88	22.88
28 47 00 00-0147 EA UHF, 10 Digit DTMF (Whelen FC230WU).....	1,580.88	22.88
28 47 00 00-0148 EA VHF High Band, 10 Digit DTMF (Whelen FC230WV).....	1,580.88	22.88
28 47 00 00-0149 EA Paging Interface Control Option (Whelen FPGINT).....	294.21	22.88
28 47 00 00-0150 EA Intrusion Alarm Control Option (Whelen FINTRU).....	178.85	22.88
28 47 00 00-0151 EA Solar Power Option (Whelen FSBC280).....	2,936.57	137.25
Note: Two 80 watt panels, with brackets and solar regulator.		
28 47 00 00-0152 Central Station Controls (28 47)		
28 47 00 00-0153 EA Desktop 18 Function Base Station Control/Encoder (Whelen E747).....	639.45	
28 47 00 00-0154 EA Desktop 35 Function Base Station Control/Encoder (Whelen E969).....	1,038.76	
28 47 00 00-0155 EA Desktop Central Station Control Encoder/Decoder (Whelen E2010).....	2,502.91	
28 47 00 00-0156 EA Siren Status Printer And Cable Option For E2010 (Whelen E2010P).....	791.13	22.88
28 47 00 00-0157 EA Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R).....	2,885.30	22.88
28 47 00 00-0158 EA Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK).....	445.06	22.88
28 47 00 00-0159 EA Option To Convert Activation Controls To FSK Format (Whelen FSKCEO).....	569.29	22.88
28 47 00 00-0160 Alert Monitor And Message Display (28 47)		
28 47 00 00-0161 EA Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H).....	1,163.82	22.88
28 47 00 00-0162 EA Alert Monitor VHF High-Narrow Band (Whelen V2000NH).....	1,163.82	22.88
28 47 00 00-0163 EA Alert Monitor UHF Narrow-Band (Whelen V2000NU).....	1,163.82	22.88
28 47 00 00-0164 EA Alert Monitor With Radio Receiver UHF (Whelen V2000U).....	1,163.82	22.88
28 47 00 00-0165 EA Internal Battery And Charger For VA2000 Series (Whelen VA2BATT).....	188.41	34.31
28 47 00 00-0166 EA Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG).....	54.62	22.88
28 47 00 00-0167 EA Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA).....	97.61	
28 47 00 00-0168 EA Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB).....	155.29	
28 47 00 00-0169 Portable Test Set (28 47)		
28 47 00 00-0170 EA VHF High Band, Portable Test Set (Whelen PT2010H).....	5,324.16	
28 47 00 00-0171 EA VHF Low Band, Portable Test Set (Whelen PT2010L).....	5,324.16	
28 47 00 00-0172 EA UHF, Portable Test Set (Whelen PT2010U).....	5,324.16	
28 47 00 00-0173 Replacement Warning Lights (28 47)		
28 47 00 00-0174 EA Amber, Incandescent, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024IA).....	295.04	36.59
28 47 00 00-0175 EA Blue, Incandescent, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024IB).....	295.04	36.59
28 47 00 00-0176 EA Clear, Incandescent, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024IC).....	295.04	36.59
28 47 00 00-0177 EA Green, Incandescent, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024IG).....	295.04	36.59
28 47 00 00-0178 EA Red, Incandescent, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024IR).....	295.04	36.59
28 47 00 00-0179 EA Amber, Incandescent, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120IA).....	206.30	36.59
28 47 00 00-0180 EA Blue, Incandescent, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120IB).....	206.30	36.59
28 47 00 00-0181 EA Clear, Incandescent, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120IC).....	206.30	36.59
28 47 00 00-0182 EA Green, Incandescent, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120IG).....	206.30	36.59
28 47 00 00-0183 EA Red, Incandescent, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120IR).....	206.30	36.59
28 47 00 00-0184 EA Amber, Halogen, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024HA).....	295.04	36.59
28 47 00 00-0185 EA Blue, Halogen, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024HB).....	295.04	36.59
28 47 00 00-0186 EA Clear, Halogen, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024HC).....	295.04	36.59
28 47 00 00-0187 EA Green, Halogen, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024HG).....	295.04	36.59
28 47 00 00-0188 EA Red, Halogen, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024HR).....	295.04	36.59
28 47 00 00-0189 EA Amber, Halogen, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120HA).....	215.18	36.59
28 47 00 00-0190 EA Blue, Halogen, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120HB).....	215.18	36.59
28 47 00 00-0191 EA Clear, Halogen, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120HC).....	215.18	36.59
28 47 00 00-0192 EA Green, Halogen, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120HG).....	215.18	36.59
28 47 00 00-0193 EA Red, Halogen, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120HR).....	215.18	36.59

END OF SECTION 28



		Earthwork	31	31
		Maintenance of Earthwork	31 01	
		Maintenance of Earth Moving	31 01 20	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 Earthwork

31 01 Maintenance of Earthwork⁽³¹⁾

31 01 20 Maintenance of Earth Moving^(31 01)

31 01 20 00-0001 Rip Settling Basins^(31 01 20)

Note: Rip through light soil and sand in settling basin. 8' on center (machine width).

31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer	516.13
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper	802.87
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader	695.22

31 05 Common Work Results For Earthwork⁽³¹⁾

31 05 13 Soils For Earthwork^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.

31 05 13 00-0001 Fill Material (Loose, Purchased Material)^(31 05 13)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.

31 05 13 00-0002	CY Sand, Bank Run.....	38.61
	For Up To 10, Add	10.93
	For >10 To 25, Add	3.86
31 05 13 00-0003	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand.....	42.99
	For Up To 10, Add	12.25
	For >10 To 25, Add	4.30
31 05 13 00-0004	CY Native Clean Fill Soil/Dirt - Common	32.99
	For Up To 10, Add	9.25
	For >10 To 25, Add	3.30
31 05 13 00-0005	CY Lime Rock Screening.....	37.80
	For Up To 10, Add	10.69
	For >10 To 25, Add	3.78
31 05 13 00-0006	CY Crushed Lime Rock Maximum 3-1/2"	34.76
	For Up To 10, Add	9.78
	For >10 To 25, Add	3.48
31 05 13 00-0007	CY Asphalt Sand	36.26
	For Up To 10, Add	10.23
	For >10 To 25, Add	3.63
31 05 13 00-0008	CY Lawn Sand.....	29.59
	For Up To 10, Add	8.23
	For >10 To 25, Add	2.96
31 05 13 00-0009	CY Sand/Clay	37.87
	For Up To 10, Add	10.71
	For >10 To 25, Add	3.79
31 05 13 00-0010	CY Recycled Concrete Aggregate	43.00
	For Up To 10, Add	12.25
	For >10 To 25, Add	4.30
31 05 13 00-0011	CY Sand Fill, Washed Aggregate	51.11
	For Up To 10, Add	14.68
	For >10 To 25, Add	5.11
31 05 13 00-0012	CY Pond Sand	23.83
	For Up To 10, Add	6.50
	For >10 To 25, Add	2.38
31 05 13 00-0013	CY Pitrun Clay	31.02
	For Up To 10, Add	8.66
	For >10 To 25, Add	3.10
31 05 13 00-0014	CY Light Clay / Loam.....	43.80
	For Up To 10, Add	12.49
	For >10 To 25, Add	4.38
31 05 13 00-0015	CY Heavy Clay	37.46
	For Up To 10, Add	10.59
	For >10 To 25, Add	3.75
31 05 13 00-0016	CY SDG&E Sand.....	32.89
31 05 13 00-0017	TON SDG&E B20 Sand	34.66

31 05 16 Aggregates For Earthwork^(31 05)

See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.

31 05 16 00-0001 Aggregate (Loose, Purchased Material)^(31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles, 01 74 19 00-0050 for hauling greater than 15 miles.

31 05 16 00-0002	CY #2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean).....	57.93
	For Up To 10, Add	16.73
	For >10 To 25, Add	5.79
31 05 16 00-0003	CY #3 Stone Aggregate Fill (1" To 2" Clean).....	49.96
	For Up To 10, Add	14.34
	For >10 To 25, Add	5.00

31 Earthwork**31 05 Common Work Results For Earthwork****31 05 16 Aggregates For Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0004 CY #4 Stone Aggregate Fill (3/4" To 1-1/2" Clean).....	50.97	
For Up To 10, Add	14.64	
For >10 To 25, Add	5.10	
31 05 16 00-0005 CY #5 Stone Aggregate Fill (1/2" To 1" Clean).....	55.76	
For Up To 10, Add	16.08	
For >10 To 25, Add	5.58	
31 05 16 00-0006 CY #6 Stone Aggregate Fill (3/8" To 3/4" Clean).....	56.73	
For Up To 10, Add	16.37	
For >10 To 25, Add	5.67	
31 05 16 00-0007 CY #56 Stone Aggregate Fill (3/8" To 1").....	58.71	
For Up To 10, Add	16.96	
For >10 To 25, Add	5.87	
31 05 16 00-0008 CY #57 Stone Aggregate Fill (#4 To 1").....	59.87	
For Up To 10, Add	17.31	
For >10 To 25, Add	5.99	
31 05 16 00-0009 CY #67 Or #68 Stone Aggregate Fill (#4 To 3/4").....	60.96	
For Up To 10, Add	17.64	
For >10 To 25, Add	6.10	
31 05 16 00-0010 CY #7 Stone Aggregate Fill (1/2" To #4).....	61.16	
For Up To 10, Add	17.70	
For >10 To 25, Add	6.12	
31 05 16 00-0011 CY #78 Stone Aggregate Fill (#8 To 1/2").....	63.13	
For Up To 10, Add	18.29	
For >10 To 25, Add	6.31	
31 05 16 00-0012 CY #8 Stone Aggregate Fill (3/8" x 1/8").....	65.11	
For Up To 10, Add	18.88	
For >10 To 25, Add	6.51	
31 05 16 00-0013 CY #89 Stone Aggregate Fill (#16 To 3/8").....	65.41	
For Up To 10, Add	18.97	
For >10 To 25, Add	6.54	
31 05 16 00-0014 CY #9 Stone Aggregate Fill (1/4" Clean).....	65.73	
For Up To 10, Add	19.07	
For >10 To 25, Add	6.57	
31 05 16 00-0015 CY #10 Stone Aggregate Fill (#8 To 3/4).....	68.72	
For Up To 10, Add	19.97	
For >10 To 25, Add	6.87	
31 05 16 00-0016 CY #610 Modified Stone Aggregate Fill (#16 To 3/4").....	62.72	
For Up To 10, Add	18.17	
For >10 To 25, Add	6.27	
31 05 16 00-0017 CY Screenings Stone Aggregate Fill.....	48.15	
For Up To 10, Add	13.80	
For >10 To 25, Add	4.82	
31 05 16 00-0018 CY Stone Aggregate Fill, Random Size, Over 6" To 12".....	32.70	
For Up To 10, Add	9.16	
For >10 To 25, Add	3.27	
31 05 16 00-0019 CY Graded Stone Aggregate Fill, Over 6" To 12".....	35.66	
For Up To 10, Add	10.05	
For >10 To 25, Add	3.57	
31 05 16 00-0020 CY Surge Stone Aggregate Fill (3" To 7" Random).....	60.84	
For Up To 10, Add	17.60	
For >10 To 25, Add	6.08	
31 05 16 00-0021 CY Surge Stone Graded Aggregate Fill (3" To 7").....	72.26	
For Up To 10, Add	21.03	
For >10 To 25, Add	7.23	
31 05 16 00-0022 CY Crusher Run Aggregate Fill (2-1/2" Minus).....	57.64	
For Up To 10, Add	16.64	
For >10 To 25, Add	5.76	
31 05 16 00-0023 CY Crusher Run Aggregate Fill (1-1/2" Minus).....	55.68	
For Up To 10, Add	16.05	
For >10 To 25, Add	5.57	
31 05 16 00-0024 CY Crusher Run Aggregate Fill (3/4" Minus).....	48.99	
For Up To 10, Add	14.05	
For >10 To 25, Add	4.90	
31 05 16 00-0025 CY Silica Sand #20 (For Playground Use Only).....	154.63	
For Up To 10, Add	45.74	
For >10 To 25, Add	15.46	
31 05 16 00-0026 CY Graded Aggregate Base Fill (3/4" Minus) Class II Base.....	49.49	
For Up To 10, Add	14.20	
For >10 To 25, Add	4.95	

31 05 36 Equipment Delivery, Pickup, Mobilization And Demobilization ⁽³¹⁾⁽⁰⁵⁾

See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing ⁽³¹⁾**31 11 Clearing And Grubbing ^(31 10)****31 11 00 00-0001 Clear And Grub Roots And Stumps ^(31 11)**

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002 ACR Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip	6,441.59
Note: Includes grub and removal of stump	



	Earthwork	31	
	Site Clearing	31 10	31
	Clearing And Grubbing	31 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 11 00 00-0003 ACR Clear And Grub Light Stumps Only Up To 6" Diameter	1,683.92	
31 11 00 00-0004 ACR Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip	7,515.19	
Note: Includes grub and removal of stump		
31 11 00 00-0005 ACR Clear And Grub Medium Stumps Only Up To 10" Diameter	2,806.52	
31 11 00 00-0006 ACR Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip	8,539.99	
Note: Includes grub and removal of stump		
31 11 00 00-0007 ACR Clear And Grub Heavy Stumps Only Up To 16" Diameter	3,189.61	
31 11 00 00-0008 ACR Clearing By Machine - Light Brush Without Grub	252.28	
31 11 00 00-0009 ACR Clearing By Machine - Medium Brush Without Grub	522.03	
31 11 00 00-0010 ACR Clearing By Machine - Heavy Brush Without Grub	739.29	
31 11 00 00-0011 ACR Chipping - Light Brush	2,004.40	
31 11 00 00-0012 ACR Chipping - Medium Brush	2,577.23	
31 11 00 00-0013 ACR Chipping - Heavy Brush	3,608.44	
 31 11 00 00-0014 Loading Of Cleared And Grubbed Material ^(31 11)		
See CSI section 01 74 19 00-0048 for hauling.		
31 11 00 00-0015 CY Machine Loading Of Cleared And Grubbed Material	8.80	
31 11 00 00-0016 CY Chute Loading Of Cleared And Grubbed Material	10.55	
31 11 00 00-0017 CY Hand Loading Of Cleared And Grubbed Material	30.87	
31 11 00 00-0018 CY Wheel And Ramp Loading Of Cleared And Grubbed Material	24.24	
 31 13 Selective Tree And Shrub Removal And Trimming ^(31 10)		
31 13 13 Selective Tree And Shrub Removal ^(31 13)		
31 13 13 00-0001 Individual Tree Removal ^(31 13 13)		
Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.		
31 13 13 00-0002 EA Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	469.70	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0003 EA >6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	704.55	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0004 EA >12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	939.40	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0005 EA >24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	1,409.10	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0006 EA >36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal	1,878.80	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0007 EA >48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal	2,348.50	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-587.13	
31 13 13 00-0008 EA >60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal	2,818.20	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-704.55	
31 13 13 00-0009 EA >72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal	3,757.60	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-939.40	
 31 13 13 00-0010 Stump Removal ^(31 13 13)		
Note: Measured by diameter of stump.		
31 13 13 00-0011 Stump Removal By Machine ^(31 13 13 00-0010)		
31 13 13 00-0012 EA Up To 6" Diameter Stump Removal	84.19	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0013 EA >6" To 12" Diameter Stump Removal	161.37	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0014 EA >12" To 24" Diameter Stump Removal	210.48	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0015 EA >24" To 36" Diameter Stump Removal	315.75	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0016 EA >36" To 48" Diameter Stump Removal	371.89	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0017 EA >48" To 60" Diameter Stump Removal	437.82	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0018 EA >60" To 72" Diameter Stump Removal	519.21	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0019 EA >72" To 84" Diameter Stump Removal	610.42	
Note: Includes excavation necessary to remove stump and loading.		
 31 13 13 00-0020 Stump Removal By Hand ^(31 13 13 00-0020)		
31 13 13 00-0021 EA Up To 6" Diameter Stump Removal By Hand	501.33	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0022 EA >6" To 12" Diameter Stump Removal By Hand	626.66	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0023 EA >12" To 24" Diameter Stump Removal By Hand	919.10	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		

31 Earthwork**31 10 Site Clearing****31 13 Selective Tree And Shrub Removal And Trimming**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0024	EA	>24" To 36" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,253.32	
31 13 13 00-0025	EA	>36" To 48" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,671.10	
31 13 13 00-0026	EA	>48" To 60" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,088.87	
31 13 13 00-0027	EA	>60" To 72" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,506.65	
31 13 13 00-0028	EA	>72" To 84" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,924.42	
31 13 13 00-0029		Stump Grinding ^(31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0030		Stump Grinding, 18" Deep Below Surface Of Soil ^(31 13 13 00-0029) Note: Level soil to match existing surface area.		
31 13 13 00-0031	EA	Stump Grinding Up To 6" Tree..... For 24" Depth, Add	90.25 18.05	
31 13 13 00-0032	EA	Stump Grinding >6" To 12" Tree..... For 24" Depth, Add	120.33 24.07	
31 13 13 00-0033	EA	Stump Grinding >12" To 15" Tree..... For 24" Depth, Add	135.37 27.07	
31 13 13 00-0034	EA	Stump Grinding >15" To 18" Tree..... For 24" Depth, Add	150.41 30.08	
31 13 13 00-0035	EA	Stump Grinding >18" To 21" Tree..... For 24" Depth, Add	161.70 32.34	
31 13 13 00-0036	EA	Stump Grinding >21" To 24" Tree..... For 24" Depth, Add	172.98 34.60	
31 13 13 00-0037	EA	Stump Grinding >24" To 27" Tree..... For 24" Depth, Add	188.01 37.60	
31 13 13 00-0038	EA	Stump Grinding >27" To 30" Tree..... For 24" Depth, Add	204.06 40.81	
31 13 13 00-0039	EA	Stump Grinding >30" To 33" Tree..... For 24" Depth, Add	226.74 45.35	
31 13 13 00-0040	EA	Stump Grinding >33" To 36" Tree..... For 24" Depth, Add	241.85 48.37	
31 13 13 00-0041	EA	Stump Grinding >36" To 42" Tree..... For 24" Depth, Add	272.08 54.42	
31 13 13 00-0042	EA	Stump Grinding >42" To 48" Tree..... For 24" Depth, Add	302.31 60.46	
31 13 13 00-0043	EA	Stump Grinding >48" To 60" Tree..... For 24" Depth, Add	377.89 75.58	
31 13 13 00-0044	EA	Stump Grinding >60" To 72" Tree..... For 24" Depth, Add	472.36 94.47	
31 13 13 00-0045	EA	Stump Grinding >72" To 84" Tree..... For 24" Depth, Add	604.63 120.93	
31 13 16		Selective Tree And Shrub Trimming ^(31 13)		
31 13 16 00-0001		Tree Trimming For Pole Line Construction And Maintenance ^(31 13 16) Note: Area to be vertical cleared (to include overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.		
31 13 16 00-0002	LF	Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction	1.53	
31 13 16 00-0003	LF	Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	2.30	
31 13 16 00-0004	LF	Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction.....	2.71	

31 20 Earth Moving ⁽³¹⁾

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 23 Excavation And Fill ^(31 20)**31 23 16 Excavation** ^(31 23)



Earthwork		31	31
Earth Moving		31 20	
Excavation And Fill		31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13 Trenching (31 23 16)		
Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.		
31 23 16 13-0001 Excavation For Trenching By Machine (31 23 16 13)		
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 13-0002 CY 12" Wide or Less, Excavation for Trenching by Machine in Soil	8.54	
For Excavation In Light Material (Class A), Deduct	-1.07	
For Excavation In Heavy/Wet Material (Class C), Add	3.42	
For Up To 20, Add	6.83	
For >20 To 50, Add	4.27	
For >50 To 250, Add	2.14	
For >500 To 1,000, Deduct	-1.28	
For >1,000, Deduct	-2.56	
31 23 16 13-0003 CY Over 12" Wide, Excavation for Trenching by Machine in Soil	5.50	
For Excavation In Light Material (Class A), Deduct	-0.69	
For Excavation In Heavy/Wet Material (Class C), Add	2.20	
For Up To 20, Add	4.40	
For >20 To 50, Add	2.75	
For >50 To 250, Add	1.38	
For >500 To 1,000, Deduct	-0.83	
For >1,000, Deduct	-1.65	
31 23 16 13-0004 CY 12" Wide or Less, Excavation for Trenching by Machine in Loose Rock	14.14	
For Up To 20, Add	11.31	
For >20 To 50, Add	7.07	
For >50 To 250, Add	3.54	
For >500 To 1,000, Deduct	-2.12	
For >1,000, Deduct	-4.24	
31 23 16 13-0005 CY Over 12" Wide, Excavation for Trenching by Machine in Loose Rock	9.77	
For Up To 20, Add	7.82	
For >20 To 50, Add	4.89	
For >50 To 250, Add	2.44	
For >500 To 1,000, Deduct	-1.47	
For >1,000, Deduct	-2.93	
31 23 16 13-0006 Excavation For Trenching By Hand (31 23 16 13)		
31 23 16 13-0007 CY Excavation For Trenching By Hand In Soil	101.84	
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 13-0008 CY Excavation For Trenching By Hand In Loose Rock	174.70	
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 13-0009 Backfilling Or Placing Subbase For Trenches (31 23 16 13)		
Note: With imported or stockpiled materials.		
31 23 16 13-0010 CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	3.08	
For Up To 20, Add	2.46	
For >20 To 50, Add	1.54	
For >50 To 250, Add	0.77	
For >500 To 1,000, Deduct	-0.46	
For >1,000, Deduct	-0.92	
31 23 16 13-0011 CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand	28.29	
31 23 16 13-0012 Compaction Of Fill Or Subbase For Trenches (31 23 16 13)		
Note: Includes restoration of final grade.		
31 23 16 13-0013 CY Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera	5.90	
For Up To 20, Add	4.72	
For >20 To 50, Add	2.95	
For >50 To 250, Add	1.48	
For >500 To 1,000, Deduct	-0.89	
For >1,000, Deduct	-1.77	
31 23 16 13-0014 CY Compaction of Fill or Subbase for Trenches by Hand	31.91	
31 23 16 13-0015 Loading Excess Material For Removal From Excavation For Trenches (31 23 16 13)		
Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling.		
31 23 16 13-0016 CY Load Excess Material by Machine for Removal from Excavation for Trenching	5.36	
For Up To 20, Add	4.29	
For >20 To 50, Add	2.68	
For >50 To 250, Add	1.34	
For >500 To 1,000, Deduct	-0.80	
For >1,000, Deduct	-1.61	
31 23 16 13-0017 CY Load Excess Material by Hand for Removal from Excavation for Trenching	74.68	
31 23 16 13-0018 Spread Excess Or Imported Material For Trenches (31 23 16 13)		
Note: Includes hand work by laborer for clean-up.		

31 Earthwork**31 20 Earth Moving****31 23 Excavation And Fill**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0019	CY		Spread Excess Or Imported Material On Site With Machine	2.55	
			For Up To 20, Add	2.04	
			For >20 To 50, Add	1.28	
			For >50 To 250, Add	0.64	
			For >500 To 1,000, Deduct	-0.38	
			For >1,000, Deduct	-0.77	
31 23 16 13-0020			Direct Burial (Plowed-in) Cable Or Piping By Machine (31 23 16 13)		
			Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0021	LF		Direct Burial of Cable or Piping up to 12" Deep	1.90	
31 23 16 13-0022	LF		Direct Burial of Cable or Piping >12" to 24" Deep	2.09	
31 23 16 13-0023	LF		Direct Burial of Cable or Piping >24" to 36" Deep	2.98	
31 23 16 13-0024	LF		Direct Burial of Cable or Piping >36" to 48" Deep	3.36	
31 23 16 13-0025			Utility Chain Trencher (31 23 16 13)		
31 23 16 13-0026			Utility Trench, Chain Trencher (31 23 16 13-0025)		
			Note: Earth left adjacent to trench.		
31 23 16 13-0027	LF		4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.05	
			For >100 To 250, Deduct	-0.07	
			For >250 To 500, Deduct	-0.16	
			For >500, Deduct	-0.32	
31 23 16 13-0028	LF		4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.15	
			For >100 To 250, Deduct	-0.08	
			For >250 To 500, Deduct	-0.17	
			For >500, Deduct	-0.35	
31 23 16 13-0029	LF		4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.19	
			For >100 To 250, Deduct	-0.08	
			For >250 To 500, Deduct	-0.18	
			For >500, Deduct	-0.36	
31 23 16 13-0030	LF		6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.26	
			For >100 To 250, Deduct	-0.09	
			For >250 To 500, Deduct	-0.19	
			For >500, Deduct	-0.38	
31 23 16 13-0031	LF		6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.38	
			For >100 To 250, Deduct	-0.10	
			For >250 To 500, Deduct	-0.21	
			For >500, Deduct	-0.41	
31 23 16 13-0032	LF		6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.57	
			For >100 To 250, Deduct	-0.11	
			For >250 To 500, Deduct	-0.24	
			For >500, Deduct	-0.47	
31 23 16 13-0033	LF		6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	1.89	
			For >100 To 250, Deduct	-0.13	
			For >250 To 500, Deduct	-0.28	
			For >500, Deduct	-0.57	
31 23 16 13-0034	LF		8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.78	
			For >100 To 250, Deduct	-0.12	
			For >250 To 500, Deduct	-0.27	
			For >500, Deduct	-0.53	
31 23 16 13-0035	LF		8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	2.09	
			For >100 To 250, Deduct	-0.15	
			For >250 To 500, Deduct	-0.31	
			For >500, Deduct	-0.63	
31 23 16 13-0036	LF		8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	2.38	
			For >100 To 250, Deduct	-0.17	
			For >250 To 500, Deduct	-0.36	
			For >500, Deduct	-0.71	
31 23 16 13-0037	LF		8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	2.82	
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.42	
			For >500, Deduct	-0.85	
31 23 16 13-0038			Backfill Trenches With Compaction (31 23 16 13-0025)		
31 23 16 13-0039	LF		Backfill 4" Wide, 12" Deep Trench, With Compaction	0.16	
			For >100 To 250, Deduct	-0.01	
			For >250 To 500, Deduct	-0.02	
			For >500, Deduct	-0.05	
31 23 16 13-0040	LF		Backfill 4" Wide, 18" Deep Trench, With Compaction	0.25	
			For >100 To 250, Deduct	-0.02	
			For >250 To 500, Deduct	-0.04	
			For >500, Deduct	-0.08	
31 23 16 13-0041	LF		Backfill 4" Wide, 24" Deep Trench, With Compaction	0.34	
			For >100 To 250, Deduct	-0.02	
			For >250 To 500, Deduct	-0.05	
			For >500, Deduct	-0.10	
31 23 16 13-0042	LF		Backfill 6" Wide, 12" Deep Trench, With Compaction	0.25	
			For >100 To 250, Deduct	-0.02	
			For >250 To 500, Deduct	-0.04	
			For >500, Deduct	-0.08	



Earthwork			31	31
Earth Moving			31 20	
Excavation And Fill			31 23	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
31 23 16 13-0043	LF	Backfill 6" Wide, 18" Deep Trench, With Compaction..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	0.34 -0.02 -0.05 -0.10	
31 23 16 13-0044	LF	Backfill 6" Wide, 24" Deep Trench, With Compaction..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	0.51 -0.04 -0.08 -0.15	
31 23 16 13-0045	LF	Backfill 6" Wide, 36" Deep Trench, With Compaction..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	0.73 -0.05 -0.11 -0.22	
31 23 16 13-0046	LF	Backfill 8" Wide, 12" Deep Trench, With Compaction..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	0.34 -0.02 -0.05 -0.10	
31 23 16 13-0047	LF	Backfill 8" Wide, 18" Deep Trench, With Compaction..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	0.51 -0.04 -0.08 -0.15	
31 23 16 13-0048	LF	Backfill 8" Wide, 24" Deep Trench, With Compaction..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	0.68 -0.05 -0.10 -0.20	
31 23 16 13-0049	LF	Backfill 8" Wide, 36" Deep Trench, With Compaction..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	1.02 -0.07 -0.15 -0.31	
31 23 16 26 Rock Removal (31 23 16)				
31 23 16 26-0001		Rock Breaking By Machine (31 23 16 26) Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002	CY	Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone)	20.99	
31 23 16 26-0003	CY	Rock Breaking By Machine, Medium Metamorphic Rock (Slate).....	22.39	
31 23 16 26-0004	CY	Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt)	26.60	
31 23 16 33 Bulk Excavation (31 23 16)				
Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.				
31 23 16 33-0001		Excavation (31 23 16 33) Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002	CY	Bulk Excavation by Dozer in Soil	7.98	
		<i>For Excavation In Light Material (Class A), Deduct</i>	-1.00	
		<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	3.19	
		<i>For >1,000, Deduct</i>	-1.20	
31 23 16 33-0003	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	4.44	
		<i>For Excavation In Light Material (Class A), Deduct</i>	-0.56	
		<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	1.78	
		<i>For >1,000, Deduct</i>	-0.67	
31 23 16 33-0004	CY	Bulk Excavation by Dozer in Loose Rock	9.83	
		<i>For >1,000, Deduct</i>	-1.47	
31 23 16 33-0005	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock	5.46	
		<i>For >1,000, Deduct</i>	-0.82	
31 23 16 33-0006		Spreading, Shaping And Rough Grading (31 23 16 33) Note: Imported or stockpiled material for bulk excavation.		
31 23 16 33-0007	CY	Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine..... <i>For >1,000, Deduct</i>	4.93 -0.74	
31 23 16 33-0008		Cutting, Shaping and Rough Grading Of Existing Elevations (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0009	CY	Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine	5.48	
		<i>For >1,000, Deduct</i>	-0.82	
31 23 16 33-0010		Relocating On Site Excavated Material From Excavation (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0011	CY	Relocating On Site Excavated Material From Bulk Excavation >100' to 300'	4.38	
		<i>For >1,000, Deduct</i>	-0.66	
31 23 16 33-0012	CY	Relocating On Site Excavated Material From Bulk Excavation >300' to 500'	6.57	
		<i>For >1,000, Deduct</i>	-0.99	
31 23 16 33-0013	CY	Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000'	9.85	
		<i>For >1,000, Deduct</i>	-1.48	
31 23 16 33-0014	CY	Relocating On Site Excavated Material From Bulk Excavation >1,000'	13.14	
		<i>For >1,000, Deduct</i>	-1.97	
31 23 16 33-0015		Finish Grading (31 23 16 33) Note: For bulk excavation.		

31 Earthwork**31 20 Earth Moving****31 23 Excavation And Fill**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0016	SY	Finish Grading for Bulk Excavation by Machine.....	0.55	
31 23 16 33-0017		Compaction Of Fill Or Subbase, Per Lift (31 23 16 33) Note: For bulk excavation. See CSI section 31 23 23 23-0001 for compaction water.		
31 23 16 33-0018	SY	Compaction of Fill or Subbase for Bulk Excavation by Machine..... Note: Per Lift	0.56	
31 23 16 33-0019		Loading Excess Material For Removal From Excavation (31 23 16 33) Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling.		
31 23 16 33-0020	CY	Loading Excess Material For Removal From Bulk Excavation..... For >1,000, Deduct	4.47 -0.67	
31 23 16 36		Excavation For Building Foundations And Other Structures (31 23 16) Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
31 23 16 36-0001		Excavation (31 23 16 36) Note: For building foundations and other structures by machine. Includes stockpiling excess materials within 100' of point of excavation, shaping, trimming and rough grading excavation.		
31 23 16 36-0002		Excavation For Building Foundations And Other Structures By Skid-Steer Loader (31 23 16 36-0001)		
31 23 16 36-0003	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil..... For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	7.25 -0.91 2.90 7.25 5.44 2.90 1.09	
31 23 16 36-0004	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock..... For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	8.90 8.90 6.68 3.56 1.34	
31 23 16 36-0005		Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader (31 23 16 36-0001)		
31 23 16 36-0006	CY	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil..... For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	5.33 -0.67 2.13 5.33 4.00 2.13 0.80	
31 23 16 36-0007	CY	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock..... For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	6.35 6.35 4.76 2.54 0.95	
31 23 16 36-0008		Excavation For Building Foundations And Other Structures By Hand (31 23 16 36-0001) Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009	CY	Excavation For Building Foundations And Other Structures By Hand in Soil..... For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add	101.84 -12.73 40.74	
31 23 16 36-0010	CY	Excavation For Building Foundations And Other Structures By Hand in Loose Rock.....	174.70	
31 23 16 36-0011		Relocating On Site Excavated Material From Excavation (31 23 16 36) Note: For building foundations and other structures over 100'.		
31 23 16 36-0012	CY	Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >100' to 300'..... For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	4.38 4.38 3.29 1.75 0.66	
31 23 16 36-0013	CY	Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >300' to 500'..... For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	6.57 6.57 4.93 2.63 0.99	



		Earthwork	31	31
		Earth Moving	31 20	
		Excavation And Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0014 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >500' to 1,000'.....	9.85	
For Up To 20, Add	9.85	
For >20 To 50, Add	7.39	
For >50 To 250, Add	3.94	
For >250 To 500, Add	1.48	
31 23 16 36-0015 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >1,000'	13.14	
For Up To 20, Add	13.14	
For >20 To 50, Add	9.86	
For >50 To 250, Add	5.26	
For >250 To 500, Add	1.97	
31 23 16 36-0016 Backfilling (31 23 16 36)		
Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading.		
31 23 16 36-0017 CY Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader	3.54	
For Up To 20, Add	3.54	
For >20 To 50, Add	2.66	
For >50 To 250, Add	1.42	
For >250 To 500, Add	0.53	
31 23 16 36-0018 CY Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader	4.13	
For Up To 20, Add	4.13	
For >20 To 50, Add	3.10	
For >50 To 250, Add	1.65	
For >250 To 500, Add	0.62	
31 23 16 36-0019 CY Backfilling Around Building Foundations And Other Structures By Hand	48.50	
31 23 16 36-0020 Compaction Of Fill Or Subbase (31 23 16 36)		
Note: For building foundations and other structures. See CSI section 31 23 23-0001 for compaction water.		
31 23 16 36-0021 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera	9.35	
For Up To 20, Add	9.35	
For >20 To 50, Add	7.01	
For >50 To 250, Add	3.74	
For >250 To 500, Add	1.40	
31 23 16 36-0022 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	31.91	
31 23 16 36-0023 Grading (31 23 16 36)		
Note: For building foundations and other structures.		
31 23 16 36-0024 SY Rough Grading For Building Foundations And Other Structures by Machine	0.95	
31 23 16 36-0025 SY Finish Grading For Building Foundations And Other Structures by Machine	1.52	
31 23 16 36-0026 SY Finish Grading For Building Foundations And Other Structures by Hand	9.43	
31 23 16 36-0027 Loading Excess Material For Removal From Excavation (31 23 16 36)		
Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling.		
31 23 16 36-0028 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine	4.65	
For Up To 20, Add	4.65	
For >20 To 50, Add	3.49	
For >50 To 250, Add	1.86	
For >250 To 500, Add	0.70	
31 23 16 36-0029 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	74.68	
31 23 16 36-0030 Spread Material (31 23 16 36)		
Note: For building foundations and other structures.		
31 23 16 36-0031 CY Spread Excess Or Imported Material On Site By Machine	2.55	
For Up To 20, Add	2.55	
For >20 To 50, Add	1.91	
For >50 To 250, Add	1.02	
For >250 To 500, Add	0.38	
31 23 16 36-0032 CY Spread Excess Or Imported Material On Site By Hand	41.22	
31 23 16 43 Mass Excavation (31 23 16)		
31 23 16 43-0001 Mass Excavation By Dozer (31 23 16 43)		
Note: In CY/Hour and using 50 Min/Hour, +5% grade, average operator and material conversion factors. Pushed to stockpile area.		
31 23 16 43-0002 Dozing Distance Averages 150 Feet Push (31 23 16 43-0001)		
31 23 16 43-0003 Dozer With Blade, 65 HP, (D-3B) (31 23 16 43-0002)		
31 23 16 43-0004 BCY Mass Excavation, D-3B Dozer, Light Material 65 HP With Blade, 150' Push, 30 CY/Hour	5.80	
31 23 16 43-0005 BCY Mass Excavation, D-3B Dozer, Medium Material 65 HP With Blade, 150' Push, 25 CY/Hour	6.97	
31 23 16 43-0006 BCY Mass Excavation, D-3B Dozer, Wet/Loose Rock 65 HP With Blade, 150' Push 20 CY/Hour	8.70	
31 23 16 43-0007 Dozer With Blade, 90 HP, (D-4H) (31 23 16 43-0002)		
31 23 16 43-0008 BCY Mass Excavation, D-4H Dozer, Light Material 90 HP With Blade, 150' Push, 60 CY/Hour	2.84	
31 23 16 43-0009 BCY Mass Excavation, D-4H Dozer, Medium Material 90 HP With Blade, 150' Push, 45 CY/Hour	3.80	

31 Earthwork**31 20 Earth Moving****31 23 Excavation And Fill**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 43-0010	BCY	Mass Excavation, D-4H Dozer, Wet/Loose Rock 90 HP With Blade, 150' Push, 35 CY/Hour	4.88	
31 23 16 43-0011		Dozer With Blade, 120 HP, (D-5H) (31 23 16 43-0002)		
31 23 16 43-0012	BCY	Mass Excavation, D-5H Dozer, Light Material 120 HP With Blade, 150' Push, 85 CY/Hour	2.10	
31 23 16 43-0013	BCY	Mass Excavation, D-5H Dozer, Medium Material 120 HP With Blade, 150' Push, 70 CY/Hour	2.54	
31 23 16 43-0014	BCY	Mass Excavation, D-5H Dozer, Wet/Loose Rock 120 HP With Blade, 150' Push, 50 CY/Hour	3.56	
31 23 16 43-0015		Dozer With Blade, 140 HP, (D-6D) (31 23 16 43-0002)		
31 23 16 43-0016	BCY	Mass Excavation, D-6D Dozer, Light Material 140 HP With Blade, 150' Push, 115 CY/Hour	1.81	
31 23 16 43-0017	BCY	Mass Excavation, D-6D Dozer, Medium Material 140 HP With Blade, 150' Push, 90 CY/Hour	2.31	
31 23 16 43-0018	BCY	Mass Excavation, D-6D Dozer, Wet/Loose Rock 140 HP With Blade, 150' Push, 70 CY/Hour	2.97	
31 23 16 43-0019		Dozer With U-Blade, 200 HP, (D-7G) (31 23 16 43-0002)		
31 23 16 43-0020	BCY	Mass Excavation, D-7G Dozer, Light Material 200 HP With U-Blade, 150' Push, 185 CY/Hour	1.20	
31 23 16 43-0021	BCY	Mass Excavation, D-7G Dozer, Medium Material 200 HP With U-Blade 150' Push, 150 CY/Hour	1.48	
31 23 16 43-0022	BCY	Mass Excavation, D-7G Dozer, Wet/Loose Rock 200 HP With U-Blade, 150' Push, 115 CY/Hour	1.93	
31 23 16 43-0023	BCY	Mass Excavation, D-7G Dozer, Blasted Rock 200 HP With U-Blade, 150' Push, 90 CY/Hour	2.47	
31 23 16 43-0024		Dozer With U-Blade, 335 HP, (D-8L) (31 23 16 43-0002)		
31 23 16 43-0025	BCY	Mass Excavation, D-8L Dozer, Light Material 335 HP With U-Blade, 150' Push, 290 CY/Hour	0.95	
31 23 16 43-0026	BCY	Mass Excavation, D-8L Dozer, Medium Material 335 HP With U-Blade 150' Push, 235 CY/Hour	1.18	
31 23 16 43-0027	BCY	Mass Excavation, D-8L Dozer, Wet/Loose Rock 335 HP With U-Blade, 150' Push, 180 CY/Hour	1.54	
31 23 16 43-0028	BCY	Mass Excavation, D-8L Dozer, Blasted Rock 335 HP With U-Blade, 150' Push, 145 CY/Hour	1.92	
31 23 16 43-0029		Dozer With U-Blade, 460 HP, (D-9L) (31 23 16 43-0002)		
31 23 16 43-0030	BCY	Mass Excavation, D-9L Dozer, Light Material 460 HP With U-Blade, 150' Push, 375 CY/Hour	0.72	
31 23 16 43-0031	BCY	Mass Excavation, D-9L Dozer, Medium Material 460 HP With U-Blade 150' Push, 300 CY/Hour	0.91	
31 23 16 43-0032	BCY	Mass Excavation, D-9L Dozer, Wet/Loose Rock 460 HP With U-Blade, 150' Push, 230 CY/Hour	1.17	
31 23 16 43-0033	BCY	Mass Excavation, D-9L Dozer, Blasted Rock 460 HP With U-Blade, 150' Push, 185 CY/Hour	1.47	
31 23 16 43-0034		Dozer With U-Blade, 700 HP, (D-10) (31 23 16 43-0002)		
31 23 16 43-0035	BCY	Mass Excavation, D-10 Dozer, Light Material 700 HP With U-Blade, 150' Push, 495 CY/Hour	0.59	
31 23 16 43-0036	BCY	Mass Excavation, D-10 Dozer, Medium Material 700 HP With U-Blade 150' Push, 400 CY/Hour	0.74	
31 23 16 43-0037	BCY	Mass Excavation, D-10 Dozer, Wet/Loose Rock 700 HP With U-Blade, 150' Push, 305 CY/Hour	0.97	
31 23 16 43-0038	BCY	Mass Excavation, D-10 Dozer, Blasted Rock 700 HP With U-Blade, 150' Push, 245 CY/Hour	1.21	
31 23 16 43-0039		Dozing Distance Averages 300 Feet Push (31 23 16 43-0001)		
31 23 16 43-0040		Dozer With Blade, 65 HP, (D-3B) (31 23 16 43-0039)		
31 23 16 43-0041	BCY	Mass Excavation, D-3B Dozer, Light Material 65 HP With Blade, 12.5 CY/Hour, 300' Push	13.93	
31 23 16 43-0042	BCY	Mass Excavation, D-3B Dozer, Medium Material 65 HP With Blade, 10 CY/Hour, 300' Push	17.41	
31 23 16 43-0043		Dozer With Blade, 90 HP, (D-4H) (31 23 16 43-0039)		
31 23 16 43-0044	BCY	Mass Excavation, D-4H Dozer, Light Material 90 HP With Blade, 20 CY/Hour, 300' Push	8.53	
31 23 16 43-0045	BCY	Mass Excavation, D-4H Dozer, Medium Material 90 HP With Blade, 17.5 CY/Hour, 300' Push	9.75	
31 23 16 43-0046	BCY	Mass Excavation, D-4H Dozer, Loose Rock 90 HP With Blade, 15 CY/Hour, 300' Push	11.38	
31 23 16 43-0047		Dozer With Blade, 120 HP, (D-5H) (31 23 16 43-0039)		
31 23 16 43-0048	BCY	Mass Excavation, D-5H Dozer, Light Material 120 HP With Blade, 35 CY/Hour, 300' Push	5.09	
31 23 16 43-0049	BCY	Mass Excavation, D-5H Dozer, Medium Material 120 HP With Blade, 30 CY/Hour, 300' Push	5.94	
31 23 16 43-0050	BCY	Mass Excavation, D-5H Dozer, Loose Rock 120 HP With Blade, 25 CY/Hour, 300' Push	7.13	
31 23 16 43-0051		Dozer With Blade, 140 HP, (D-6D) (31 23 16 43-0039)		
31 23 16 43-0052	BCY	Mass Excavation, D-6D Dozer, Light Material 140 HP With Blade, 55 CY/Hour, 300' Push	3.78	
31 23 16 43-0053	BCY	Mass Excavation, D-6D Dozer, Medium Material 140 HP With Blade, 45 CY/Hour, 300' Push	4.62	
31 23 16 43-0054	BCY	Mass Excavation, D-6D Dozer, Loose Rock 140 HP With Blade, 35 CY/Hour, 300' Push	5.94	
31 23 16 43-0055		Dozer With U-Blade, 200 HP, (D-7G) (31 23 16 43-0039)		
31 23 16 43-0056	BCY	Mass Excavation, D-7G Dozer, Light Material 200 HP With U-Blade, 85 CY/Hour, 300' Push	2.62	
31 23 16 43-0057	BCY	Mass Excavation, D-7G Dozer, Medium Material 200 HP With U-Blade 65 CY/Hour, 300' Push	3.42	
31 23 16 43-0058	BCY	Mass Excavation, D-7G Dozer, Loose Rock 200 HP With U-Blade, 50 CY/Hour, 300' Push	4.44	
31 23 16 43-0059	BCY	Mass Excavation, D-7G Dozer, Blasted Rock 200 HP With U-Blade, 40 CY/Hour, 300' Push	5.56	
31 23 16 43-0060		Dozer With U-Blade, 335 HP, (D-8L) (31 23 16 43-0039)		
31 23 16 43-0061	BCY	Mass Excavation, D-8L Dozer, Light Material 335 HP With U-Blade, 145 CY/Hour, 300' Push	1.92	
31 23 16 43-0062	BCY	Mass Excavation, D-8L Dozer, Medium Material 335 HP With U-Blade 115 CY/Hour, 300' Push	2.41	
31 23 16 43-0063	BCY	Mass Excavation, D-8L Dozer, Loose Rock 335 HP With U-Blade, 90 CY/Hour, 300' Push	3.08	



	Earthwork	31	
	Earth Moving	31 20	31
	Excavation And Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 43-0064 BCY Mass Excavation, D-8L Dozer, Blasted Rock 335 HP With U-Blade, 70 CY/Hour, 300' Push.....	3.96	
31 23 16 43-0065 Dozer With U-Blade, 460 HP, (D-9L) (31 23 16 43-0039)		
31 23 16 43-0066 BCY Mass Excavation, D-9L Dozer, Light Material 460 HP With U-Blade, 195 CY/Hour, 300' Push.....	1.39	
31 23 16 43-0067 BCY Mass Excavation, D-9L Dozer, Medium Material 460 HP With U-Blade 160 CY/Hour, 300' Push.....	1.69	
31 23 16 43-0068 BCY Mass Excavation, D-9L Dozer, Loose Rock 460 HP With U-Blade, 120 CY/Hour, 300' Push.....	2.26	
31 23 16 43-0069 BCY Mass Excavation, D-9L Dozer, Blasted Rock 460 HP With U-Blade, 95 CY/Hour, 300' Push.....	2.86	
31 23 16 43-0070 Dozer With U-Blade, 700 HP, (D-10) (31 23 16 43-0039)		
31 23 16 43-0071 BCY Mass Excavation, D-10 Dozer, Light Material 700 HP With U-Blade, 275 CY/Hour, 300' Push.....	1.08	
31 23 16 43-0072 BCY Mass Excavation, D-10 Dozer, Medium Material 700 HP With U-Blade 220 CY/Hour, 300' Push.....	1.34	
31 23 16 43-0073 BCY Mass Excavation, D-10 Dozer, Loose Rock 700 HP With U-Blade, 170 CY/Hour, 300' Push.....	1.75	
31 23 16 43-0074 BCY Mass Excavation, D-10 Dozer, Blasted Rock 700 HP With U-Blade, 135 CY/Hour, 300' Push.....	2.20	
31 23 16 43-0075 Dozing Distance Averages 450 Feet Push (31 23 16 43-0001)		
31 23 16 43-0076 Dozer With U-Blade, 215 HP, (D-7G) (31 23 16 43-0075)		
31 23 16 43-0077 BCY Mass Excavation, D-7G Dozer, Light Material 215 HP With U-Blade, 75 CY/Hour, 450' Push.....	2.97	
31 23 16 43-0078 BCY Mass Excavation, D-7G Dozer, Medium Material 215 HP With U-Blade 60 CY/Hour, 450' Push.....	3.71	
31 23 16 43-0079 BCY Mass Excavation, D-7G Dozer, Loose Rock 215 HP With U-Blade, 45 CY/Hour, 450' Push.....	4.95	
31 23 16 43-0080 BCY Mass Excavation, D-7G Dozer, Blasted Rock 215 HP With U-Blade, 35 CY/Hour, 450' Push.....	6.36	
31 23 16 43-0081 Dozer With U-Blade, 335 HP, (D-8L) (31 23 16 43-0075)		
31 23 16 43-0082 BCY Mass Excavation, D-8L Dozer, Light Material 335 HP With U-Blade, 105 CY/Hour, 450' Push.....	2.64	
31 23 16 43-0083 BCY Mass Excavation, D-8L Dozer, Medium Material 335 HP With U-Blade 85 CY/Hour, 450' Push.....	3.27	
31 23 16 43-0084 BCY Mass Excavation, D-8L Dozer, Loose Rock 335 HP With U-Blade, 65 CY/Hour, 450' Push.....	4.26	
31 23 16 43-0085 BCY Mass Excavation, D-8L Dozer, Blasted Rock 335 HP With U-Blade, 50 CY/Hour, 450' Push.....	5.55	
31 23 16 43-0086 Dozer With U-Blade, 460 HP, (D-9L) (31 23 16 43-0075)		
31 23 16 43-0087 BCY Mass Excavation, D-9L Dozer, Light Material 460 HP With U-Blade, 145 CY/Hour, 450' Push.....	1.87	
31 23 16 43-0088 BCY Mass Excavation, D-9L Dozer, Medium Material 460 HP With U-Blade 115 CY/Hour, 450' Push.....	2.36	
31 23 16 43-0089 BCY Mass Excavation, D-9L Dozer, Loose Rock 460 HP With U-Blade, 90 CY/Hour, 450' Push.....	3.01	
31 23 16 43-0090 BCY Mass Excavation, D-9L Dozer, Blasted Rock 460 HP With U-Blade, 70 CY/Hour, 450' Push.....	3.87	
31 23 16 43-0091 Dozer With U-Blade, 700 HP, (D-10) (31 23 16 43-0075)		
31 23 16 43-0092 BCY Mass Excavation, D-10 Dozer, Light Material 700 HP With U-Blade, 185 CY/Hour, 450' Push.....	1.60	
31 23 16 43-0093 BCY Mass Excavation, D-10 Dozer, Medium Material 700 HP With U-Blade 150 CY/Hour, 450' Push.....	1.97	
31 23 16 43-0094 BCY Mass Excavation, D-10 Dozer, Loose Rock 700 HP With U-Blade, 115 CY/Hour, 450' Push.....	2.58	
31 23 16 43-0095 BCY Mass Excavation, D-10 Dozer, Blasted Rock 700 HP With U-Blade, 90 CY/Hour, 450' Push.....	3.29	
31 23 16 43-0096 Excavation By Push Loaded Scraper (31 23 16 43)		
Note: Choose scraper capacity and cycle time.		
31 23 16 43-0097 Self Propelled Scraper Capacity 9 BCY (31 23 16 43-0096)		
31 23 16 43-0098 BCY Excavation With Push Loaded Self Propelled Scraper 9 BCY, 9 Cycles Per Hour.....	3.43	
31 23 16 43-0099 Self Propelled Scraper Capacity 16 BCY (31 23 16 43-0096)		
31 23 16 43-0100 BCY Excavation With Push Loaded Self Propelled Scraper 16 BCY, 9 Cycles Per Hour.....	2.39	
31 23 16 43-0101 BCY Excavation With Push Loaded Self Propelled Scraper 16 BCY, 6 Cycles Per Hour.....	3.57	
31 23 16 43-0102 BCY Excavation With Push Loaded Self Propelled Scraper 16 BCY, 4.5 Cycles Per Hour.....	5.36	
31 23 16 43-0103 Self Propelled Scraper Capacity 25 BCY (31 23 16 43-0096)		
31 23 16 43-0104 BCY Excavation With Push Loaded Self Propelled Scraper 25 BCY, 9 Cycles Per Hour.....	1.54	
31 23 16 43-0105 BCY Excavation With Push Loaded Self Propelled Scraper 25 BCY, 6 Cycles Per Hour.....	2.31	
31 23 16 43-0106 BCY Excavation With Push Loaded Self Propelled Scraper 25 BCY, 4.5 Cycles Per Hour.....	2.73	
31 23 16 43-0107 Self Propelled Scraper Capacity 35 BCY (31 23 16 43-0096)		
31 23 16 43-0108 BCY Excavation With Push Loaded Self Propelled Scraper 35 BCY, 9 Cycles Per Hour.....	1.16	
31 23 16 43-0109 BCY Excavation With Push Loaded Self Propelled Scraper 35 BCY, 6 Cycles Per Hour.....	1.75	
31 23 16 43-0110 BCY Excavation With Push Loaded Self Propelled Scraper 35 BCY, 4.5 Cycles Per Hour.....	2.35	
31 23 16 43-0111 Mass Excavation By Bucket Drag-Line (31 23 16 43)		
31 23 16 43-0112 CY Excavate Sand/Gravel, By Bucket Drag Line.....	6.70	
31 23 16 43-0113 CY Excavate, Soil, By Bucket Drag Line.....	11.55	
31 23 16 49 Vacuum Excavation (31 23 16)		

31 Earthwork**31 20 Earth Moving****31 23 Excavation And Fill**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
31 23 16 49-0001 Vacuum Excavation (Potholing) (31 23 16 49)					
Note: Includes grade down measurement, backfill and surface restoration.					
31 23 16 49-0002	EA	Initial Set Up And Final Equipment Removal For Vacuum Excavation		345.99	
31 23 16 49-0003	EA	Vacuum Excavation		324.36	
Note: For first hole.					
For Each Additional Hole At Site, Add				160.66	
31 23 16 49-0004	EA	Vacuum Excavation Minimum.....		1,937.55	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively.					
This task should not be used in conjunction with any other tasks in this section.					
31 23 19 Dewatering (31 23)					
31 23 19 00-0001 Well Point Dewatering System (31 23 19)					
31 23 19 00-0002 Delivery, Installation And Removal Cost (31 23 19 00-0001)					
Note: Priced by linear foot of header used.					
31 23 19 00-0003	LF	Up To 100' In Length Well Point System Delivery, Installation And Removal		102.51	
31 23 19 00-0004	LF	>100' To 250' In Length Well Point System Delivery, Installation And Removal		56.38	
31 23 19 00-0005	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal		51.26	
31 23 19 00-0006	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal		46.13	
31 23 19 00-0007	LF	>500' To 1,000' In Length Well Point System Delivery, Installation And Removal		41.00	
31 23 19 00-0008	LF	>1,000' In Length Well Point System Delivery, Installation And Removal		35.88	
31 23 19 00-0009 Well Point Dewatering System Rental (31 23 19 00-0001)					
Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.					
31 23 19 00-0010	LFD	Up To 100' In Length Well Point System Rental (LF x Days = Quantity)		1.78	
For >5 Days And <1 Month, Deduct				-0.39	
For >1 Month, Deduct				-0.50	
31 23 19 00-0011	LFD	>100' To 250' In Length Well Point System Rental (LF x Days = Quantity)		1.04	
For >5 Days And <1 Month, Deduct				-0.23	
For >1 Month, Deduct				-0.29	
31 23 19 00-0012	LFD	>250' To 500' In Length Well Point System Rental (LF x Days = Quantity)		0.74	
For >5 Days And <1 Month, Deduct				-0.16	
For >1 Month, Deduct				-0.21	
31 23 19 00-0013	LFD	>500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)		0.54	
For >5 Days And <1 Month, Deduct				-0.12	
For >1 Month, Deduct				-0.15	
31 23 19 00-0014	LFD	>1,000' In Length Well Point System Rental (LF x Days = Quantity)		0.49	
For >5 Days And <1 Month, Deduct				-0.11	
For >1 Month, Deduct				-0.14	
31 23 19 00-0015 Well Point Dewatering System Operation Costs (31 23 19 00-0001)					
Note: The quantity for operation shall be the total number of hours the well point system is operational.					
31 23 19 00-0016	HR	Operation Costs		93.94	
31 23 23 Fill (31 23)					
31 23 23 23 Compaction (31 23 23)					
31 23 23 23-0001 Compaction Water, Water Truck And Operator (31 23 23 23)					
31 23 23 23-0002	MGL	Compaction Water, Water Truck And Operator		154.79	
Note: Use this task in situations where fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per 1000 Gallons) See CSI section 01 22 23 00-1206 for water truck when water is available on site.					
31 23 23 33 Flowable Fill (31 23 23)					
31 23 23 33-0001 Flowable Cement Backfill For Trenches (31 23 23 33)					
Note: Includes compaction and restoration of final grade.					
31 23 23 33-0002	CY	Flowable Cement Backfill for Trenches.....		206.45	
For Up To 20, Add				73.67	
For >20 To 50, Add				48.33	
For >50 To 250, Add				24.16	
For >500 To 1,000, Deduct				-12.67	
For >1,000, Deduct				-25.34	
31 24 Embankments (31 20)					
31 24 13 Roadway Embankments (31 24)					



Earthwork			31	31
Earth Moving			31 20	
Embankments			31 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0001		Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations (31 24 13) Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY. See CSI section 31 05 16 00-0000 for imported material, 32 12 16 00-0000 for asphalt paving, 32 13 13 00-0000 for concrete paving.		
31 24 13 00-0002		Cutting, Shaping And Rough Grading (31 24 13 00-0001) Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.		
31 24 13 00-0003		Cutting, Shaping, And Rough Grading By Machine (31 24 13 00-0002)		
31 24 13 00-0004	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil	5.48	
		For Up To 20, Add	5.48	
		For >20 To 50, Add	4.11	
		For >50 To 250, Add	2.19	
		For >250 To 500, Add	0.82	
		For >1,000, Deduct	-0.82	
31 24 13 00-0005	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock.....	6.79	
		For Up To 20, Add	6.79	
		For >20 To 50, Add	5.09	
		For >50 To 250, Add	2.72	
		For >250 To 500, Add	1.02	
		For >1,000, Deduct	-1.02	
31 24 13 00-0006		Cutting, Shaping, And Rough Grading By Hand (31 24 13 00-0002)		
31 24 13 00-0007	SY	Shape Embankment/Slope By Hand Up To 1 On 4 Slope.....	5.23	
31 24 13 00-0008	SY	Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope	6.79	
31 24 13 00-0009		Scarify Soil (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0010	CSF	Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine	5.07	
		For Up To 20, Add	2.54	
		For >20 To 50, Add	1.27	
		For >250 To 500, Deduct	-0.51	
		For >500, Deduct	-1.01	
31 24 13 00-0011		Relocating On Site Excavated Material (31 24 13 00-0001)		
31 24 13 00-0012	CY	>500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments.....	9.85	
		For Up To 20, Add	9.85	
		For >20 To 50, Add	7.39	
		For >50 To 250, Add	3.94	
		For >250 To 500, Add	1.48	
		For >1,000, Deduct	-1.48	
31 24 13 00-0013	CY	>1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments	13.14	
		For Up To 20, Add	13.14	
		For >20 To 50, Add	9.86	
		For >50 To 250, Add	5.26	
		For >250 To 500, Add	1.97	
		For >1,000, Deduct	-1.97	
31 24 13 00-0014		Spread And Shape Imported Or Stockpiled Material (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments.		
31 24 13 00-0015	CY	Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments.....	6.02	
		For Up To 20, Add	6.02	
		For >20 To 50, Add	4.52	
		For >50 To 250, Add	2.41	
		For >250 To 500, Add	0.90	
		For >1,000, Deduct	-0.90	
31 24 13 00-0016		Grading (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0017	SY	Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.61	
31 24 13 00-0018	SY	Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.80	
31 24 13 00-0019	LF	Finish Grade For Curb	0.90	
31 24 13 00-0020	LF	Finish Grade For Curb And Gutter	1.11	
31 24 13 00-0021		Compaction Of Fill Or Subbase (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments by machine, per lift.		
31 24 13 00-0022	SY	Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.56	
		For Up To 250, Add	0.56	
		For >250 To 500, Add	0.42	
		For >500 To 1,000, Add	0.22	
		For >5,000, Deduct	-0.08	

31	Earthwork
31 20	Earth Moving
31 24	Embankments



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 24 13 00-0023	Loading Excess Material For Removal From Excavation (31 24 13 00-0001)			
	Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.			
31 24 13 00-0024	CY	Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine	4.47	
		For Up To 20, Add	4.47	
		For >20 To 50, Add	3.35	
		For >50 To 250, Add	1.79	
		For >250 To 500, Add	0.67	
		For >1,000, Deduct	-0.67	

31 25 Erosion And Sedimentation Controls (31 20)

31 25 14 Stabilization Measures For Erosion And Sedimentation Control (31 25)

31 25 14 13 Hydraulically-Applied Erosion Control (31 25 14)

31 25 14 13-0001	Bonded Fiber Matrix (31 25 14 13)			
31 25 14 13-0002	MSF	Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	41.30	
31 25 14 13-0003	MSF	>25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied	37.46	
31 25 14 13-0004	MSF	>50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied	34.20	
31 25 14 13-0005	MSF	>100,000 Bonded Fiber Matrix, Hydraulically Applied	32.34	

31 25 14 16 Rolled Erosion Control Mats And Blankets (31 25 14)

Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.

31 25 14 16-0001	Erosion Control Blankets And Turf Reinforcement Mats (31 25 14 16)			
31 25 14 16-0002	Erosion Control Blankets, Short Term, Light Duty (31 25 14 16-0001)			
31 25 14 16-0003	SY	S75 Single Net Erosion Control Blanket	1.38	
		Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0004	SY	S75BN Single Net Erosion Control Blanket	1.63	
		Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.		
31 25 14 16-0005	SY	Curlex 1, Single Net Erosion Control Blanket	1.33	
		Note: As manufactured by American Excelsior		
31 25 14 16-0006	SY	Curlex 1, Single Net Erosion Control Blanket	1.38	
		Note: As manufactured by American Green.		
31 25 14 16-0007	SY	Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting.....	1.28	
31 25 14 16-0008	Erosion Control Blankets, Intermediate Duration (31 25 14 16-0001)			
31 25 14 16-0009	SY	S150 Double Net Erosion Control Blanket.....	1.75	
		Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0010	SY	S150 BN Double Net Erosion Control Blanket.....	2.15	
		Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.		
31 25 14 16-0011	SY	Curlex II, Double Net Erosion Control Blanket, Natural.....	1.56	
		Note: As manufactured by American Excelsior.		
31 25 14 16-0012	SY	Curlex II, Double Net Erosion Control Blanket, Green.....	1.60	
		Note: As manufactured by American Excelsior.		
31 25 14 16-0013	SY	Enforcer Double Net Erosion Control Blanket.....	1.67	
		Note: As manufactured by American Excelsior.		
31 25 14 16-0014	Turf Reinforcement Mats (TRM) (31 25 14 16-0001)			
		Note: Permanent, UV stabilized.		
31 25 14 16-0015	SY	P300 Permanent Polypropylene Turf Reinforcement Mat.....	8.82	
		Note: 100% synthetic, UV stabilized, two layer netting.		
31 25 14 16-0016	SY	C350 Permanent Turf Reinforcement Mat.....	8.18	
		Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.		
31 25 14 16-0017	SY	Recyclex TRM, Permanent Turf Reinforcement Mat.....	6.57	
		Note: As manufactured by American Excelsior, 100% recycled		
31 25 14 16-0018	Jute Mesh Erosion Control Blankets (31 25 14 16-0001)			
31 25 14 16-0019	SY	Jute Mesh, Open Uniform Weave.....	1.49	

31 25 14 16-0020	Revegetation Mat (31 25 14 16-0001)			
31 25 14 16-0021	SY	3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber	6.40	
Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.				
31 25 14 16-0022	SY	Webbed Revegetation Mat, Polypropylene Fiber	9.10	
Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.				



		Earthwork	31	31
		Earth Moving	31 20	
		Erosion And Sedimentation Controls	31 25	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
31 25 14 16-0023 Erosion Control Rolls (31 25 14 16-0001)					
31 25 14 16-0024	SY	Erosion Control Rolls, Mirafi 140N.....	1.53		
31 25 14 16-0025	SY	Erosion Control Rolls, Amoco 4547	1.56		
31 25 14 23 Stabilization Measures For Erosion Control (31 25 14)					
See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.					
31 25 14 23-0001 Sand Bags (31 25 14 23)					
Note: Bags filled on site with delivered material. Includes material and placement of bags.					
31 25 14 23-0002	BAG	50 LB Capacity Sand Bag With Sand	5.20		2.15
		For >2,500 To 5,000, Deduct	-0.43		
		For >5,000, Deduct	-0.95		
31 25 14 23-0003	BAG	75 LB Capacity Sand Bag With Sand	6.73		2.67
		For >2,500 To 5,000, Deduct	-0.53		
		For >5,000, Deduct	-1.21		
31 25 14 23-0004	BAG	100 LB Capacity Sand Bag With Sand	8.43		3.19
		For >2,500 To 5,000, Deduct	-0.64		
		For >5,000, Deduct	-1.48		
31 25 14 23-0005	BAG	125 LB Capacity Sand Bag With Sand	10.41		3.98
		For >2,500 To 5,000, Deduct	-0.80		
		For >5,000, Deduct	-1.84		
31 25 14 23-0006	BAG	150 LB Capacity Sand Bag With Sand	12.62		4.79
		For >2,500 To 5,000, Deduct	-0.96		
		For >5,000, Deduct	-2.22		
31 25 14 23-0007	BAG	175 LB Capacity Sand Bag With Sand	14.64		5.43
		For >2,500 To 5,000, Deduct	-1.09		
		For >5,000, Deduct	-2.55		
31 25 14 23-0008	BAG	2,000 LB Capacity Sand Bag With Sand	120.07		37.56
		For >2,500 To 5,000, Deduct	-7.51		
		For >5,000, Deduct	-19.52		
31 25 14 23-0009	BAG	3,000 LB Capacity Sand Bag With Sand	155.73		41.33
		For >2,500 To 5,000, Deduct	-8.27		
31 25 14 23-0010 Gravel Bags (31 25 14 23)					
Note: Bags filled on site with delivered material. Includes material and placement of bags.					
31 25 14 23-0011	BAG	30 LB Capacity Gravel Bag With Gravel.....	4.39		1.42
		For >2,500 To 5,000, Deduct	-0.28		
		For >5,000, Deduct	-0.72		
31 25 14 23-0012	BAG	50 LB Capacity Gravel Bag With Gravel.....	7.64		2.15
		For >2,500 To 5,000, Deduct	-0.43		
		For >5,000, Deduct	-1.19		
31 25 14 23-0013 Turbidity Curtain (31 25 14 23)					
Note: Type 2 curtain.					
31 25 14 23-0014	LF	3' High, Type II, Turbidity Curtain.....	18.84		
		For Type I, Deduct	-2.80		
31 25 14 23-0015	LF	4' High, Type II, Turbidity Curtain.....	20.40		
		For Type I, Deduct	-3.08		
31 25 14 23-0016	LF	5' High, Type II, Turbidity Curtain.....	22.53		
		For Type I, Deduct	-3.49		
31 25 14 23-0017	LF	6' High, Type II, Turbidity Curtain.....	24.36		
		For Type I, Deduct	-3.83		
31 25 14 23-0018	LF	7' High, Type II, Turbidity Curtain.....	25.56		
		For Type I, Deduct	-4.01		
31 25 14 23-0019	LF	8' High, Type II, Turbidity Curtain.....	26.77		
		For Type I, Deduct	-4.20		
31 25 14 23-0020	LF	9' High, Type II, Turbidity Curtain.....	28.16		
		For Type I, Deduct	-4.42		
31 25 14 23-0021	LF	10' High, Type II, Turbidity Curtain.....	30.07		
		For Type I, Deduct	-4.76		
31 25 14 23-0022	LF	12' High, Type II, Turbidity Curtain.....	31.61		
		For Type I, Deduct	-5.00		
31 25 14 23-0023	LF	13' High, Type II, Turbidity Curtain.....	33.63		
		For Type I, Deduct	-5.36		
31 25 14 23-0024	LF	14' High, Type II, Turbidity Curtain.....	35.54		
		For Type I, Deduct	-5.67		
31 25 14 23-0025	LF	15' High, Type II, Turbidity Curtain.....	37.37		
		For Type I, Deduct	-5.97		
31 25 14 23-0026	LF	16' High, Type II, Turbidity Curtain.....	40.63		
		For Type I, Deduct	-6.59		
31 25 14 23-0027	LF	17' High, Type II, Turbidity Curtain.....	42.60		
		For Type I, Deduct	-6.91		
31 25 14 23-0028	LF	18' High, Type II, Turbidity Curtain.....	44.52		
		For Type I, Deduct	-7.20		
31 25 14 23-0029	LF	19' High, Type II, Turbidity Curtain.....	46.56		
		For Type I, Deduct	-7.52		
31 25 14 23-0030	LF	20' High, Type II, Turbidity Curtain.....	48.56		
		For Type I, Deduct	-7.82		
31 25 14 23-0031 Filter Bags (31 25 14 23)					

31	Earthwork
31 20	Earth Moving
31 25	Erosion And Sedimentation Controls



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0032 Non-Woven Filter Bags (31 25 14 23-0031)				
31 25 14 23-0033	EA	6' x 15' Non-Woven Filter Bag.....	141.64	
31 25 14 23-0034	EA	13' x 15' Non-Woven Filter Bag.....	204.44	
31 25 14 23-0035	EA	15' x 15' Non-Woven Filter Bag.....	235.66	
31 25 14 23-0036 Monofilament Filter Bags (31 25 14 23-0031)				
31 25 14 23-0037	EA	5' x 15' Monofilament Filter Bag.....	147.08	
31 25 14 23-0038	EA	10' x 15' Monofilament Filter Bag.....	203.03	
31 25 14 23-0039 Cable Articulating Concrete Block (31 25 14 23) Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.				
31 25 14 23-0040	SF	4.75" Open Cell Articulated Concrete Block With Earth Backfill.....	33.34	
		For Up To 500, Add	7.54	
		For >500 To 1,000, Add	4.20	
31 25 14 23-0041	SF	6" Open Cell Articulated Concrete Block With Earth Backfill.....	38.11	
		For Up To 500, Add	8.57	
		For >500 To 1,000, Add	4.76	
31 25 14 23-0042	SF	7.5" Open Cell Articulated Concrete Block With Earth Backfill.....	43.57	
		For Up To 500, Add	9.76	
		For >500 To 1,000, Add	5.40	
31 25 14 23-0043	SF	9" Open Cell Articulated Concrete Block With Earth Backfill.....	49.12	
		For Up To 500, Add	10.98	
		For >500 To 1,000, Add	6.07	
31 25 14 23-0044	SF	4.75" Closed Cell Articulated Concrete Block.....	35.75	
		For Up To 500, Add	8.02	
		For >500 To 1,000, Add	4.44	
31 25 14 23-0045	SF	6" Closed Cell Articulated Concrete Block.....	40.99	
		For Up To 500, Add	9.14	
		For >500 To 1,000, Add	5.05	
31 25 14 23-0046	SF	7.5" Closed Cell Articulated Concrete Block.....	46.98	
		For Up To 500, Add	10.44	
		For >500 To 1,000, Add	5.74	
31 25 14 23-0047	SF	9" Closed Cell Articulated Concrete Block.....	53.02	
		For Up To 500, Add	11.76	
		For >500 To 1,000, Add	6.46	
31 25 14 26 Stabilization Measures For Sedimentation Control (31 25 14)				
31 25 14 26-0001 Silt Fences And Dike Barriers (31 25 14 26) Note: Includes stakes and embedding.				
31 25 14 26-0002 Silt Fences 2' High (31 25 14 26-0001)				
31 25 14 26-0003	LF	2' High Silt Fence with Stakes at 4' On Center.....	2.49	
31 25 14 26-0004	LF	2' High Silt Fence with Stakes at 6' On Center.....	1.95	
31 25 14 26-0005	LF	2' High Silt Fence with Stakes at 8' On Center.....	1.41	
31 25 14 26-0006	LF	2' High Silt Fence with Stakes at 10' On Center.....	1.22	
31 25 14 26-0007 Silt Fences 3' High (31 25 14 26-0001)				
31 25 14 26-0008	LF	3' High Silt Fence with Stakes at 4' On Center.....	2.11	
31 25 14 26-0009	LF	3' High Silt Fence with Stakes at 6' On Center.....	2.02	
31 25 14 26-0010	LF	3' High Silt Fence with Stakes at 8' On Center.....	1.14	
31 25 14 26-0011	LF	3' High Silt Fence with Stakes at 10' On Center.....	1.28	
31 25 14 26-0012 Silt Dike Barrier (31 25 14 26-0001)				
31 25 14 26-0013	LF	Silt Dike Barrier With Stakes.....	2.99	
31 25 14 26-0014 Silt Fences Removal (31 25 14 26-0001)				
31 25 14 26-0015	LF	Removal Of Silt Fence And Stakes.....	0.68	
31 25 14 26-0016 Hay And Straw Bales (31 25 14 26) Note: Includes trench for placement, and stakes.				
31 25 14 26-0017	LF	Place Sterilized Straw Bales.....	3.70	
		Note: Includes securing in ground with stakes.		
31 25 14 26-0018	LF	Place Hay Bales.....	3.45	
		Note: Includes securing in ground with stakes.		
31 25 14 26-0019	EA	Place And Remove Hay Bales, Includes Securing In Ground With Stakes.....	10.32	
31 25 14 26-0020	LF	Removal Of Hay Or Straw Bales.....	1.21	
		Note: Includes removal of stakes.		
31 25 14 26-0021 Sediment Logs (Degradable) (31 25 14 26)				



		Earthwork	31	31
		Earth Moving	31 20	
		Erosion And Sedimentation Controls	31 25	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
31 25 14 26-0022		Sediment Logs (Degradable) (31 25 14 26-0021)			
Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.					
31 25 14 26-0023	LF	12" Sediment Log	6.82		
31 25 14 26-0024	LF	20" Sediment Log	7.99		
31 25 14 26-0025		Wattles (Degradable) (31 25 14 26-0021)			
Note: Includes trench for placement, 24" wood staking at 4' O.C.					
31 25 14 26-0026	EA	Wattles (Sterile Straw Filled Rolls), 9" x 25'	124.37		
31 25 14 26-0027	EA	Wattles (Sterile Straw Filled Rolls), 12" x 20'	117.40		
31 25 14 26-0028		Fiber Roll (CALTRANS Type 1) (31 25 14 26)			
Note: Includes furrow trench for placement, 24" wood staking at 4' O.C.					
31 25 14 26-0029	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	5.24		
		For >1,000 To 10,000, Deduct	-0.60		
		For >10,000, Deduct	-1.02		
31 25 14 26-0030	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	5.92		
		For >1,000 To 10,000, Deduct	-0.62		
		For >10,000, Deduct	-1.06		
31 25 14 26-0031	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	7.40		
		For >1,000 To 10,000, Deduct	-0.74		
		For >10,000, Deduct	-1.26		
31 25 14 26-0032		Fiber Roll (CALTRANS Type 2) (31 25 14 26)			
Note: Includes 24" wood stakes at 2' O.C. off-set on sides with ropes.					
31 25 14 26-0033	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	4.49		
		For >1,000 To 10,000, Deduct	-0.49		
		For >10,000, Deduct	-0.83		
31 25 14 26-0034	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	5.13		
		For >1,000 To 10,000, Deduct	-0.51		
		For >10,000, Deduct	-0.86		
31 25 14 26-0035	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	6.02		
		For >1,000 To 10,000, Deduct	-0.54		
		For >10,000, Deduct	-0.92		
31 25 14 26-0036		Inlet Protection Sediment Bags (31 25 14 26)			
Note: Includes removal, cleaning, and replacement per each location.					
31 25 14 26-0037	EA	2' x 2' x 3' Inlet Protection Sediment Bag	42.55		
31 25 14 26-0038	EA	2' x 3' x 3' Inlet Protection Sediment Bag	52.78		
31 25 14 26-0039	EA	2' x 4' x 3' Inlet Protection Sediment Bag	64.55		
31 25 14 26-0040		Clean Sediment Logs/Wattles (31 25 14 26)			
Note: Includes removal, cleaning, and replacement per each location.					
31 25 14 26-0041	EA	Clean Sediment Logs/Wattles.....	67.91		
31 30 Earthwork Methods (31)					
31 31 Soil Treatment (31 30)					
31 31 16 Termite Control (31 31)					
31 31 16 13 Chemical Termite Control (31 31 16)					
31 31 16 13-0001 Commercial Use (31 31 16 13)					
31 31 16 13-0002	SF	Termite Pretreatment, Commercial Soil Poisoning Under Slab	0.73		
31 31 16 13-0003	SF	Termite Pretreatment, Commercial Slab And Walls.....	0.73		
31 31 16 13-0004		Residential Use (31 31 16 13)			
31 31 16 13-0005	SF	Termite Pretreatment, Residential General Spraying Walls And Slab	0.69		
31 31 16 13-0006	SF	Termite Treatment, Existing Residential Structure.....	0.95		
31 31 19		Vegetation Control (31 31)			
31 31 19 13 Chemical Vegetation Control (31 31 19)					
31 31 19 13-0001 Soil Sterilants (31 31 19 13)					
31 31 19 13-0002	MSF	Soil Sterilant.....	20.04		
Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.					
		For >45 To 90, Deduct	-0.37		
		For >90 To 225, Deduct	-1.73		
		For >225, Deduct	-2.46		

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 Soil Stabilization ^(31 30)

31 32 13 Soil Mixing Stabilization ^(31 32)

31 32 13 16 Cement Soil Stabilization ^(31 32 13)

31 32 13 16-0001	Soil Cement Course ^(31 32 13 16)	
	Note: Includes soil material, adding and mixing of cement, water and calcium chloride (if required), shaping, finishing and final compaction. Excludes cement, calcium chloride, foundation preparation, compaction water and additional surface treatments.	
31 32 13 16-0002	CY Compacted Soil Cement Course, Material mixed in Central Plant.....	52.01
31 32 13 16-0003	CY Compacted Soil Cement Course, Material mixed in Traveling Pugmill. Cement.....	54.49
31 32 13 16-0004	LB Cement, Per Unit Of Measure.....	0.04
31 32 13 16-0005	LB Flake Calcium Chloride, Per Unit Of Measure	0.46
31 32 13 16-0006	EA Mobilize And Demobilize Traveling Pugmill	150.00

31 32 13 16-0007 Cementitious Soil Binder ^(31 32 13 16)

31 32 13 16-0008	CY Cementitious Soil Binder, 4% Cement Mix By Volume	31.77
31 32 13 16-0009	CY Cementitious Soil Binder, 6% Cement Mix By Volume	37.06
31 32 13 16-0010	CY Cementitious Soil Binder, 9% Cement Mix By Volume	45.78
31 32 13 16-0011	CY Cementitious Soil Binder, 12% Cement Mix By Volume	54.37

31 32 13 19 Lime Soil Stabilization ^(31 32 13)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.

31 32 13 19-0001 Lime Slurry ^(31 32 13 19)

31 32 13 19-0002	LCY Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume	26.38
31 32 13 19-0003	TON Cement Stabilized Base Material	83.81
31 32 13 19-0004	CWT Lime For Soil Stabilization	13.29
	Note: Excludes the cost for spreading or backfilling	
31 32 13 19-0005	LCY Roller, Grader - Lime Stabilization	13.68
31 32 13 19-0006	LCY Roller, Grader - Cement Stabilization	3.18

31 32 13 19-0007 Lime Stabilized Subgrade ^(31 32 13 19)

Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).

31 32 13 19-0008	SY 6" Thick Lime Stabilized Subgrade, 25 LB.....	8.69
	For 4% Lime Instead Of 5%, Deduct	-0.24
	For 6% Lime Instead Of 5%, Add	0.24
31 32 13 19-0009	SY 7" Thick Lime Stabilized Subgrade, 29 LB.....	10.07
	For 4% Lime Instead Of 5%, Deduct	-0.27
	For 6% Lime Instead Of 5%, Add	0.27
31 32 13 19-0010	SY 8" Thick Lime Stabilized Subgrade, 33 LB.....	11.48
	For 4% Lime Instead Of 5%, Deduct	-0.31
	For 6% Lime Instead Of 5%, Add	0.31
31 32 13 19-0011	SY 10" Thick Lime Stabilized Subgrade, 41 LB/SY	14.36
	For 4% Lime Instead Of 5%, Deduct	-0.39
	For 6% Lime Instead Of 5%, Add	0.39
	For >5,000 SY, Deduct	-0.97
31 32 13 19-0012	SY 12" Thick Lime Stabilized Subgrade, 50 LB/SY	17.24
	For 4% Lime Instead Of 5%, Deduct	-0.47
	For 6% Lime Instead Of 5%, Add	0.47
	For >5,000 SY, Deduct	-1.17
31 32 13 19-0013	SY 14" Thick Lime Stabilized Subgrade, 58 LB/SY	20.08
	For 4% Lime Instead Of 5%, Deduct	-0.54
	For 6% Lime Instead Of 5%, Add	0.54
	For >5,000 SY, Deduct	-1.36
31 32 13 19-0014	SY 16" Thick Lime Stabilized Subgrade, 66 LB/SY	22.96
	For 4% Lime Instead Of 5%, Deduct	-0.62
	For 6% Lime Instead Of 5%, Add	0.62
	For >5,000 SY, Deduct	-1.55
31 32 13 19-0015	SY 18" Thick Lime Stabilized Subgrade, 74 LB/SY	25.85
	For 4% Lime Instead Of 5%, Deduct	-0.70
	For 6% Lime Instead Of 5%, Add	0.70
	For >5,000 SY, Deduct	-1.75

31 32 13 19-0016 Hydrated Lime Stabilized Subgrade ^(31 32 13 19)

Note: Includes scarifying, adding and mixing of hydrated lime and water, light sealing, curing, secondary mixing, shaping, finishing and final compaction. Excludes hydrated lime, foundation preparation, compaction water and additional surface treatments.

31 32 13 19-0017	CY Compacted Hydrated Lime Stabilized Subgrade	52.07
31 32 13 19-0018	LB Hydrated Lime.....	1.19

31 32 13 29 Liquid Soil Stabilization ^(31 32 13)

31 32 13 29-0001	GAL Polyacrylamide And Calcium Solution	2.38

31 32 19 Geosynthetic Soil Stabilization And Layer Separation ^(31 32)



Earthwork			31
Earthwork Methods			31 30
Soil Stabilization			31 32

31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 19 13 Geogrid Soil Stabilization (31 32 19)**31 32 19 13-0001 Geogrid Fabrics** (31 32 19 13)

Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.

31 32 19 13-0002	SY	5.3 Oz/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150).....	2.41
		For Up To 50, Add	0.57
		For >50 To 150, Add	0.42
		For >150 To 250, Add	0.27
		For >250 To 500, Add	0.13
31 32 19 13-0003	SY	6.9 Oz/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300).....	2.74
		For Up To 50, Add	0.64
		For >50 To 150, Add	0.47
		For >150 To 250, Add	0.30
		For >250 To 500, Add	0.15
31 32 19 13-0004	SY	8.7 Oz/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500).....	2.99
		For Up To 50, Add	0.69
		For >50 To 150, Add	0.51
		For >150 To 250, Add	0.33
		For >250 To 500, Add	0.17
31 32 19 13-0005	SY	12.6 Oz/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800).....	4.25
		For Up To 50, Add	0.95
		For >50 To 150, Add	0.70
		For >150 To 250, Add	0.46
		For >250 To 500, Add	0.23
31 32 19 13-0006	SY	14.1 Oz/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000).....	4.85
		For Up To 50, Add	1.07
		For >50 To 150, Add	0.80
		For >150 To 250, Add	0.52
		For >250 To 500, Add	0.26
31 32 19 13-0007	SY	4.3 Oz/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20).....	2.45
		For Up To 50, Add	0.57
		For >50 To 150, Add	0.42
		For >150 To 250, Add	0.27
		For >250 To 500, Add	0.14
31 32 19 13-0008	SY	5.9 Oz/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30).....	3.55
		For Up To 50, Add	0.80
		For >50 To 150, Add	0.59
		For >150 To 250, Add	0.38
		For >250 To 500, Add	0.19

31 32 19 16 Geotextile Soil Stabilization (31 32 19)**31 32 19 16-0001 Nonwoven Polypropylene Geotextiles** (31 32 19 16)

Note: For drainage, filtration and separation.

31 32 19 16-0002	SY	3.0 Oz/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS).....	0.76
		For Up To 50, Add	0.19
		For >50 To 150, Add	0.14
		For >150 To 250, Add	0.09
		For >250 To 500, Add	0.04
31 32 19 16-0003	SY	3.5 Oz/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS).....	0.81
		For Up To 50, Add	0.20
		For >50 To 150, Add	0.14
		For >150 To 250, Add	0.09
		For >250 To 500, Add	0.05
31 32 19 16-0004	SY	4.0 Oz/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS).....	0.88
		For Up To 50, Add	0.21
		For >50 To 150, Add	0.15
		For >150 To 250, Add	0.10
		For >250 To 500, Add	0.05
31 32 19 16-0005	SY	4.5 Oz/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS).....	0.94
		For Up To 50, Add	0.22
		For >50 To 150, Add	0.16
		For >150 To 250, Add	0.11
		For >250 To 500, Add	0.05
31 32 19 16-0006	SY	6.0 Oz/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS).....	1.10
		For Up To 50, Add	0.25
		For >50 To 150, Add	0.19
		For >150 To 250, Add	0.12
		For >250 To 500, Add	0.06
31 32 19 16-0007	SY	7.0 Oz/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS).....	1.30
		For Up To 50, Add	0.30
		For >50 To 150, Add	0.22
		For >150 To 250, Add	0.14
		For >250 To 500, Add	0.07

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0008	SY	8.0 Oz/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS).....	1.43	
		For Up To 50, Add	0.33	
		For >50 To 150, Add	0.24	
		For >150 To 250, Add	0.16	
		For >250 To 500, Add	0.08	
31 32 19 16-0009	SY	10 Oz/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS).....	1.75	
		For Up To 50, Add	0.39	
		For >50 To 150, Add	0.29	
		For >150 To 250, Add	0.19	
		For >250 To 500, Add	0.09	
31 32 19 16-0010	SY	16 Oz/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric.....	3.79	
		For Up To 50, Add	0.80	
		For >50 To 150, Add	0.60	
		For >150 To 250, Add	0.39	
		For >250 To 500, Add	0.20	
31 32 19 16-0011 Woven Geotextiles Fabric (31 32 19 16)				
31 32 19 16-0012	SY	200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55)	1.08	
		For Up To 50, Add	0.25	
		For >50 To 150, Add	0.18	
		For >150 To 250, Add	0.12	
		For >250 To 500, Add	0.06	
31 32 19 16-0013	SY	315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66)	1.50	
		For Up To 50, Add	0.33	
		For >50 To 150, Add	0.25	
		For >150 To 250, Add	0.16	
		For >250 To 500, Add	0.08	
31 32 19 16-0014	SY	4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%)	2.63	
		For Up To 50, Add	0.57	
		For >50 To 150, Add	0.42	
		For >150 To 250, Add	0.28	
		For >250 To 500, Add	0.14	
31 32 19 16-0015	SY	11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%).....	2.56	
		For Up To 50, Add	0.55	
		For >50 To 150, Add	0.41	
		For >150 To 250, Add	0.27	
		For >250 To 500, Add	0.14	
31 32 19 16-0016	SY	6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF)	2.24	
		For Up To 50, Add	0.49	
		For >50 To 150, Add	0.36	
		For >150 To 250, Add	0.24	
		For >250 To 500, Add	0.12	
31 32 19 16-0017	SY	9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF)	2.40	
		For Up To 50, Add	0.52	
		For >50 To 150, Add	0.39	
		For >150 To 250, Add	0.25	
		For >250 To 500, Add	0.13	
31 32 19 16-0018	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF)	3.05	
		For Up To 50, Add	0.65	
		For >50 To 150, Add	0.49	
		For >150 To 250, Add	0.32	
		For >250 To 500, Add	0.16	
31 32 19 16-0019	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF)	4.32	
		For Up To 50, Add	0.91	
		For >50 To 150, Add	0.68	
		For >150 To 250, Add	0.45	
		For >250 To 500, Add	0.22	
31 32 19 16-0020 Geomembranes (31 32 19 16)				
31 32 19 16-0021 Polyvinyl Chloride (PVC) Geomembrane (31 32 19 16-0020)				
31 32 19 16-0022	SF	20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	0.86	
31 32 19 16-0023	SF	30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	0.98	
31 32 19 16-0024	SF	40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.17	
31 32 19 16-0025	SF	50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.41	
31 32 19 16-0026	SF	60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.60	
31 32 19 16-0027	SF	70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.74	
31 32 19 16-0028	SF	80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.89	
31 32 19 16-0029	SF	90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.08	
31 32 19 16-0030	SF	100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.28	
31 32 19 16-0031 High Density Polyethylene (HDPE) Geomembrane (31 32 19 16-0020)				
31 32 19 16-0032	SF	20 Mil High Density Polyethylene Membrane (US Fabrics)	0.83	
31 32 19 16-0033	SF	30 Mil High Density Polyethylene Membrane (US Fabrics)	1.22	
31 32 19 16-0034	SF	40 Mil High Density Polyethylene Membrane (US Fabrics)	1.46	
31 32 19 16-0035	SF	50 Mil High Density Polyethylene Membrane (US Fabrics)	2.51	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0036 SF 60 Mil High Density Polyethylene Membrane (US Fabrics)	1.91	
31 32 19 16-0037 SF 80 Mil High Density Polyethylene Membrane (US Fabrics)	2.39	
31 32 19 16-0038 SF 100 Mil High Density Polyethylene Membrane (US Fabrics)	2.88	
31 32 19 16-0039 SF 120 Mil High Density Polyethylene Membrane (US Fabrics)	5.35	
31 32 19 16-0040 SF 140 Mil High Density Polyethylene Membrane (US Fabrics)	5.55	
31 32 19 16-0041 Rock Slope Protection Fabric (Monterey County) (31 32 19 16)		
31 32 19 16-0042 SY Rock Slope Protection Fabric, Drainage Outlet (Monterey County)	5.64	
31 32 19 26 Geoweb Cellular Confinement System (31 32 19)		
Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0001 Geoweb Cellular Confinement System (31 32 19 26)		
Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0002 SF 4" Geoweb Cellular Confinement System (Presto Geosystems)	4.53	
For >20,000, Deduct	-0.08	
For >2:1 Slope, Add	0.95	
31 32 19 26-0003 SF 6" Geoweb Cellular Confinement System (Presto Geosystems)	5.28	
For >20,000, Deduct	-0.12	
For >2:1 Slope, Add	0.95	
31 32 19 26-0004 SF 8" Geoweb Cellular Confinement System (Presto Geosystems)	6.17	
For >20,000, Deduct	-0.17	
For >2:1 Slope, Add	0.95	
31 32 36 Soil Nailing (31 32)		
31 32 36 00-0001 Landslide and Slip-Out Stabilization (31 32 36)		
Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.		
31 32 36 00-0002 Launched Soil Nails™ (31 32 36 00-0001)		
Note: Furnish Launched Soil Nails™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Alternately, the tube may be composed of fiberglass (1.5 inch outside diameter, 0.5 inch wall thickness Strongwell EXTREN Series 625 Vinyl Ester fiberglass. Furnish equipment and incidentals necessary to complete the work. Insert Launched Soil Nails™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 00-0003 EA Fiberglass SuperNail®	780.00	
Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.		
31 32 36 00-0004 EA GalvaDized™ SuperNail®	620.00	
Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.		
31 32 36 00-0005 EA Temporary Launched Soil Nail	520.00	
Note: bare steel tube up to 20 ft. length.		
31 32 36 00-0006 EA Fiberglass SuperDrain™	585.00	
Note: perforated fiberglass tube up to 20 ft. length.		
31 32 36 00-0007 EA GalvaDized™ SuperDrain™	550.00	
Note: perforated GalvaDized™ steel tube up to 20 ft. length.		
31 32 36 00-0008 Drilled SuperNails® (Permanently Cased Soil Nails) (31 32 36 00-0001)		
Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 00-0009 EA Drilled GalvaDized™ SuperNail® up to 20 ft. length	650.00	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 00-0010 EA Drilled GalvaDized™ SuperNail® up to 30 ft. length	975.00	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 00-0011 EA Drilled GalvaDized™ SuperNail® up to 40 ft. length	1,235.00	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 00-0012 EA Drilled GalvaDized™ SuperNail® up to 50 ft. length	1,495.00	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 00-0013 EA Drilled GalvaDized™ SuperNail® up to 60 ft. length	1,755.00	
Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		

31	Earthwork
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31 32	Soil Stabilization



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 00-0014	EA	Drilled GalvaDized™ SuperNail® up to 70 ft. length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	2,015.00	
31 32 36 00-0015	EA	Drilled GalvaDized™ SuperNail® up to 80 ft. length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	2,275.00	
31 32 36 00-0016		Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 00-0001) Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering "B7X" or Ischebeck "Titan" bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 00-0017		Self-Drilling SuperNails® (31 32 36 00-0016)		
31 32 36 00-0018	EA	Self Drilling SuperNails® up to 20-ft	910.00	
31 32 36 00-0019	EA	Self Drilling SuperNails® up to 30-ft	1,300.00	
31 32 36 00-0020	EA	Self Drilling SuperNails® up to 40-ft	1,820.00	
31 32 36 00-0021	EA	Self Drilling SuperNails® up to 50-ft	2,340.00	
31 32 36 00-0022	EA	Self Drilling SuperNails® up to 60-ft	2,860.00	
31 32 36 00-0023	EA	Self Drilling SuperNails® up to 70-ft	3,380.00	
31 32 36 00-0024	EA	Self Drilling SuperNails® up to 80-ft	3,900.00	
31 32 36 00-0025		Self-Drilling SuperMicropiles™ (31 32 36 00-0016)		
31 32 36 00-0026	EA	Self Drilling SuperNails® SuperMicropiles™ up to 20-ft	910.00	
31 32 36 00-0027	EA	Self Drilling SuperNails® SuperMicropiles™ up to 30-ft	1,300.00	
31 32 36 00-0028	EA	Self Drilling SuperNails® SuperMicropiles™ up to 40-ft	1,820.00	
31 32 36 00-0029	EA	Self Drilling SuperNails® SuperMicropiles™ up to 50-ft	2,340.00	
31 32 36 00-0030	LF	Micropile Cap – 12" thick shotcrete	130.00	
31 32 36 00-0031		Drilled / Launched SuperMicropiles™ (31 32 36 00-0001) Note: Furnish SuperMicropiles™ that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperMicropiles™ may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperMicropile™ outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 00-0032	EA	SuperMicropiles™ up to 20 ft. length..... Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	695.00	
31 32 36 00-0033	EA	SuperMicropiles™ up to 30 ft. length..... Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,020.00	
31 32 36 00-0034	EA	SuperMicropiles™ up to 40 ft. length..... Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,280.00	
31 32 36 00-0035	EA	SuperMicropiles™ up to 50 ft. length..... Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,540.00	
31 32 36 00-0036		Shotcrete or Gunite (31 32 36 00-0001)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 00-0037 Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 00-0036) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 Psi in 3 days and 4000 Psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use		
31 32 36 00-0038 SFI Dry-Mix Reinforced Gunite..... Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).	13.00	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 36 00-0039		Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 00-0036) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Water-reducer and Superplasticizer Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 100 3/4" 70-85 No. 8 90-100 No. 4 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 Psi in 3 days and 4000 Psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying with A	
31 32 36 00-0040	SF	Wet-Mix Reinforced Shotcrete 6.50	
		Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).	
31 32 36 00-0041		Shotcrete or Guniting for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 00-0036)	
31 32 36 00-0042	LF	Shotcrete shoulder build-out 260.00	
31 32 36 00-0043	SF	Acid Stained Shotcrete (gun finished) shotcrete 3.25	
31 32 36 00-0044	SF	Sculpt and stain shotcrete.....22.50	
31 32 36 00-0045		Steel Mesh, Turf Reinforcement Matting and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 00-0001)	
31 32 36 00-0046		Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 00-0045) Note: Furnish Galvan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.	
31 32 36 00-0047	SF	High Capacity Diamond Mesh.....19.50	
		Note: sold per square face foot	
31 32 36 00-0048	SF	Double Twist Wire Mesh.....10.00	
		Note: sold per square face foot	
31 32 36 00-0049		Permanent Turf Reinforcing Mat (TRM) (31 32 36 00-0045) Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxially oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.	
31 32 36 00-0050	SF	Permanent Turf Reinforcement Mat.....1.30	
		Note: sold per square face foot	
31 32 36 00-0051		Biodegradable Turf Reinforcing Mat (TRM) (31 32 36 00-0045) Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.	



			Earthwork	31	31
			Earthwork Methods	31 30	
			Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 00-0052	SF	Biodegradable Turf Reinforcement Mat Note: sold per square face foot	0.35	
31 32 36 00-0053		Steel Plates (31 32 36 00-0045)		
31 32 36 00-0054	EA	Galvanized Steel Plates.....	35.00	
31 32 36 00-0055		BioWall® (31 32 36 00-0001) Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 00-0056	SF	BioWall®.....	50.00	
31 32 36 00-0057		GeoSynthetically Confined Soil™ (GCS®) Components (31 32 36 00-0001) Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 –“Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing”) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2400 lbs/ft (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr (10 miles/hr). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or ¾ in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front of t		
31 32 36 00-0058	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Note: Installation sold per square face foot (excludes materials)	32.50	
31 32 36 00-0059	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8” x 8” x 16”).....	4.60	
31 32 36 00-0060	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10” x 120”).....	100.00	
31 32 36 00-0061	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile.....	0.65	
31 32 36 00-0062		Launched SuperDrain™ (Horizontal Drains) (31 32 36 00-0001) Note: Furnish Launched SuperDrain™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Drainage perforations consist of 0.5-inch diameter holes drilled or torch-cut at 6 inch spacing along the distal 5 feet of nail. Every other hole is rotated 90° about the longitudinal axis of the nail. Furnish equipment and incidentals necessary to complete the work. Insert Launched SuperDrain™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 00-0063	EA	Drilled Polyvinyl Chloride (PVC) Horizontal Drains up to 20 ft. length	650.00	
31 32 36 00-0064	EA	Drilled Polyvinyl Chloride (PVC) Horizontal Drains up to 30 ft. length	975.00	
31 32 36 00-0065	EA	Drilled Polyvinyl Chloride (PVC) Horizontal Drains up to 40 ft. length	1,300.00	
31 32 36 00-0066	EA	Drilled Polyvinyl Chloride (PVC) Horizontal Drains up to 50 ft. length	2,275.00	
31 32 36 00-0067	EA	Drilled Polyvinyl Chloride (PVC) Horizontal Drains up to 60 ft. length	2,730.00	
31 32 36 00-0068	EA	Drilled Polyvinyl Chloride (PVC) Horizontal Drains up to 70 ft. length	3,185.00	
31 32 36 00-0069	EA	Drilled Polyvinyl Chloride (PVC) Horizontal Drains up to 80 ft. length	3,640.00	
31 32 36 00-0070		Mobilization / Demobilization (31 32 36 00-0001)		
31 32 36 00-0071	EA	Mobilization (Out of State)	15,600.00	
31 32 36 00-0072	EA	Mobilization (In State)	7,800.00	
31 32 36 00-0073	DAY	Limited or Remote Access Surcharge	7,700.00	

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 36 00-0074 Grouting (31 32 36 00-0001)

31 32 36 00-0075 Compaction Grouting (31 32 36 00-0074)

Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.

31 32 36 00-0076	LF	Compaction Grouting Casing Installation.....	22.60
31 32 36 00-0077	CF	Compaction Grout Injection for Soils Densification	17.00
31 32 36 00-0078	CF	Compaction Grout For Void Fill.....	10.25

31 32 36 00-0079 Polyurethane Grouting (31 32 36 00-0074)

Note: A. The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - lb/cf D 1622 3.0 lb/cf 6.0 lb/cf Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi B. Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3 ft below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.

31 32 36 00-0080	LBS	Polyurethane Grouting For Void Fill and Re-Leveling.....	9.35

31 36 Gabions (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.

31 36 13 Gabion Boxes (31 36)

31 36 13 00-0001 Stone Filled Gabion Slope Protection (31 36 13)

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002	SY	6" Deep Stone Filled Gabion Slope Protection	45.28
31 36 13 00-0003	SY	9" Deep Stone Filled Gabion Slope Protection	52.70
31 36 13 00-0004	SY	12" Deep Stone Filled Gabion Slope Protection	61.78
31 36 13 00-0005	SY	15" Deep Stone Filled Gabion Slope Protection	73.69
31 36 13 00-0006	SY	18" Deep Stone Filled Gabion Slope Protection	86.78
31 36 13 00-0007	SY	24" Deep Stone Filled Gabion Slope Protection	118.20
31 36 13 00-0008	SY	36" Deep Stone Filled Gabion Slope Protection	148.83

31 37 Riprap (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.

31 37 00 00-0001 Random - Filter Stone (31 37)

31 37 00 00-0002	CY	10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	35.49
		For Chinking Material, Add	13.25
31 37 00 00-0003	CY	>50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	40.26
		For Chinking Material, Add	13.25



		Earthwork	31	31
		Earthwork Methods	31 30	
		Riprap	31 37	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
31 37 00 00-0004	CY >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap..... <i>For Chinking Material, Add</i>	42.51 13.25		
31 37 00 00-0005	CY >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap..... <i>For Chinking Material, Add</i>	45.07 13.25		
31 37 00 00-0006	CY >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap..... <i>For Chinking Material, Add</i>	47.14 13.25		
31 37 00 00-0007	CY >600 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	50.51		
31 37 00 00-0008	CY 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap.....	67.13		
31 37 00 00-0009	TON 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	24.03		
31 37 00 00-0010	TON >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	27.07		
31 37 00 00-0011	TON >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	28.49		
31 37 00 00-0012	TON >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	30.12		
31 37 00 00-0013	TON >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	31.43		
31 37 00 00-0014	TON >600 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	33.60		
31 37 00 00-0015	TON 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap.....	46.41		

31 40 Shoring And Underpinning⁽³¹⁾

31 41 Shoring^(31 40)

31 41 13 Timber Shoring^(31 41)

31 41 13 00-0001 Wood Sheet Piling^(31 41 13)

31 41 13 00-0002 Pull And Salvage^(31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 13 00-0003	SF Wood Shoring, 8' Deep Excavation, Pull And Salvage..... <i>For Wood Sheeting Left In Place</i>	10.86 -0.70
31 41 13 00-0004	SF Wood Shoring, 10' Deep Excavation, Pull And Salvage..... <i>For Wood Sheeting Left In Place</i>	11.73 -0.87
31 41 13 00-0005	SF Wood Shoring, 12' Deep Excavation, Pull And Salvage..... <i>For Wood Sheeting Left In Place</i>	12.70 -1.04
31 41 13 00-0006	SF Wood Shoring, 14' Deep Excavation, Pull And Salvage..... <i>For Wood Sheeting Left In Place</i>	13.74 -1.24
31 41 13 00-0007	SF Wood Shoring, 16' Deep Excavation, Pull And Salvage..... <i>For Wood Sheeting Left In Place</i>	14.87 -1.46
31 41 13 00-0008	SF Wood Shoring, 18' Deep Excavation, Pull And Salvage..... <i>For Wood Sheeting Left In Place</i>	16.10 -1.70
31 41 13 00-0009	SF Wood Shoring, 20' Deep Excavation, Pull And Salvage..... <i>For Wood Sheeting Left In Place</i>	17.44 -1.96

31 41 16 Sheet Piling^(31 41)

31 41 16 13 Steel Sheet Piling^(31 41 16)

31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage^(31 41 16 13)

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 16 13-0002	TON Shoring For 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage..... <i>For Standard Sheeting Left In Place, Add</i> <i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i> <i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i> <i>For High Strength Sheeting 55,000 PSI Grade, Add</i> <i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i> <i>For Each Additional Month >3 Months, Add</i>	1,753.78 876.17 1,260.99 96.20 106.89 331.37 53.45
31 41 16 13-0003	TON Shoring For 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage..... <i>For Standard Sheeting Left In Place, Add</i> <i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i> <i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i> <i>For High Strength Sheeting 55,000 PSI Grade, Add</i> <i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i> <i>For Each Additional Month >3 Months, Add</i>	1,819.47 843.33 1,228.15 96.20 106.89 331.37 53.45
31 41 16 13-0004	TON Shoring For 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage..... <i>For Standard Sheeting Left In Place, Add</i> <i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i> <i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i> <i>For High Strength Sheeting 55,000 PSI Grade, Add</i> <i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i> <i>For Each Additional Month >3 Months, Add</i>	2,124.88 690.62 1,075.44 96.20 106.89 331.37 53.45
31 41 16 13-0005	TON Shoring For 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage..... <i>For Standard Sheeting Left In Place, Add</i> <i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i> <i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i> <i>For High Strength Sheeting 55,000 PSI Grade, Add</i> <i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i> <i>For Each Additional Month >3 Months, Add</i>	2,418.75 543.69 928.51 96.20 106.89 331.37 53.45

31 Earthwork**31 40 Shoring And Underpinning****31 41 Shoring**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 41 16 13-0006 TON Shoring For 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,591.63	
For Standard Sheeting Left In Place, Add	457.25	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	842.07	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	96.20	
For High Strength Sheeting 55,000 PSI Grade, Add	106.89	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	331.37	
For Each Additional Month >3 Months, Add	53.45	
31 41 16 13-0007 TON Shoring For 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,767.95	
For Standard Sheeting Left In Place, Add	369.09	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	753.91	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	96.20	
For High Strength Sheeting 55,000 PSI Grade, Add	106.89	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	331.37	
For Each Additional Month >3 Months, Add	53.45	

31 45 Vibroflotation And Densification (31 40)**31 45 13 Vibroflotation** (31 45)

31 45 13 00-0001 LCY Soil Stabilization, Vibroflotation.....	11.33

31 60 Special Foundations And Load-bearing Elements (31)**31 62 Driven Piles** (31 60)**31 62 13 Concrete Piles** (31 62)**31 62 13 23 Prestressed Concrete Piles** (31 62 13)**31 62 13 23-0001 Square Prestressed Driven Concrete Piles** (31 62 13 23)

31 62 13 23-0002 VLF 10" Square Prestressed Driven Concrete Pile	25.29
For Piles Driven In Water, Add	12.34
31 62 13 23-0003 VLF 12" Square Prestressed Driven Concrete Pile	31.71
For Piles Driven In Water, Add	13.90
31 62 13 23-0004 VLF 14" Square Prestressed Driven Concrete Pile	38.43
For Piles Driven In Water, Add	15.30
31 62 13 23-0005 VLF 16" Square Prestressed Driven Concrete Pile	47.04
For Piles Driven In Water, Add	16.97
31 62 13 23-0006 VLF 18" Square Prestressed Driven Concrete Pile	57.08
For Piles Driven In Water, Add	18.92
31 62 13 23-0007 VLF 20" Square Prestressed Driven Concrete Pile	66.01
For Piles Driven In Water, Add	20.91
31 62 13 23-0008 VLF 24" Square Prestressed Driven Concrete Pile	84.17
For Piles Driven In Water, Add	24.03

31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles (31 62 13 23)

31 62 13 23-0010 VLF 12" Octagonal Prestressed Driven Concrete Pile	42.06
For Piles Driven In Water, Add	14.30
31 62 13 23-0011 VLF 14" Octagonal Prestressed Driven Concrete Pile	53.04
For Piles Driven In Water, Add	16.03
31 62 13 23-0012 VLF 16" Octagonal Prestressed Driven Concrete Pile	64.13
For Piles Driven In Water, Add	17.87
31 62 13 23-0013 VLF 18" Octagonal Prestressed Driven Concrete Pile	77.88
For Piles Driven In Water, Add	20.06
31 62 13 23-0014 VLF 20" Octagonal Prestressed Driven Concrete Pile	143.18
For Piles Driven In Water, Add	27.53
31 62 13 23-0015 VLF 24" Octagonal Prestressed Driven Concrete Pile	87.86
For Piles Driven In Water, Add	23.10

31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles (31 62 13 23)

31 62 13 23-0017 VLF 12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	31.42
For Piles Driven In Water, Add	12.68
31 62 13 23-0018 VLF 14" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	36.79
For Piles Driven In Water, Add	13.78
31 62 13 23-0019 VLF 16" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	43.14
For Piles Driven In Water, Add	15.04
31 62 13 23-0020 VLF 18" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	48.58
For Piles Driven In Water, Add	16.32
31 62 13 23-0021 VLF 20" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	60.27
For Piles Driven In Water, Add	18.29
31 62 13 23-0022 VLF 24" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	73.79
For Piles Driven In Water, Add	20.59

31 62 16 Steel Piles (31 62)**31 62 16 16 Steel H Piles** (31 62 16)**31 62 16 16-0001 Rolled, Driven Steel H Piles** (31 62 16 16)



		Earthwork	31	31
		Special Foundations And Load-bearing Elements	31 60	
		Driven Piles	31 62	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 16-0002	VLF	8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	42.89 15.02	
31 62 16 16-0003	VLF	10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	48.65 16.13	
31 62 16 16-0004	VLF	10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	61.56 17.42	
31 62 16 16-0005	VLF	12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	58.49 17.45	
31 62 16 16-0006	VLF	12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	67.09 18.31	
31 62 16 16-0007	VLF	12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	77.63 20.34	
31 62 16 16-0008	VLF	12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	86.24 21.20	
31 62 16 16-0009	VLF	14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	77.11 20.59	
31 62 16 16-0010	VLF	14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	91.74 22.05	
31 62 16 16-0011	VLF	14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	103.25 24.28	
31 62 16 16-0012	VLF	14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile..... <i>For Piles Driven In Water, Add</i>	117.02 25.65	
31 62 16 16-0013		Splices, Caps, And Points For H-Piles (31 62 16 16)		
31 62 16 16-0014		Rolled Steel H Pile Splices (31 62 16 16-0013)		
31 62 16 16-0015	EA	8" Rolled Steel H Pile Splice.....	307.52	
31 62 16 16-0016	EA	10" Rolled Steel H Pile Splice.....	368.63	
31 62 16 16-0017	EA	12" Rolled Steel H Pile Splice.....	486.04	
31 62 16 16-0018	EA	14" Rolled Steel H Pile Splice.....	516.60	
31 62 16 16-0019		Rolled Steel H Driving Caps (31 62 16 16-0013)		
31 62 16 16-0020	EA	8" Rolled Steel H Driving Cap.....	4,981.21	
31 62 16 16-0021	EA	10" Rolled Steel H Driving Cap.....	4,981.21	
31 62 16 16-0022	EA	12" Rolled Steel H Driving Cap.....	5,026.80	
31 62 16 16-0023	EA	14" Rolled Steel H Driving Cap.....	7,623.85	
31 62 16 16-0024		Rolled Steel H Standard Pile Points (31 62 16 16-0013)		
31 62 16 16-0025	EA	8" Rolled Steel H Standard Pile Point.....	338.08	
31 62 16 16-0026	EA	10" Rolled Steel H Standard Pile Point.....	368.63	
31 62 16 16-0027	EA	12" Rolled Steel H Standard Pile Point.....	486.04	
31 62 16 16-0028	EA	14" Rolled Steel H Standard Pile Point.....	577.71	
31 62 16 16-0029	EA	10" Rolled Steel H Standard Pile Point.....	486.04	
31 62 16 16-0030	EA	14" Rolled Steel H Standard Pile Point.....	636.89	
31 62 16 19		Unfilled Tubular Steel Piles (31 62 16)		
31 62 16 19-0001		Unfilled Tubular Driven Steel Piles (31 62 16 19)		
31 62 16 19-0002	VLF	8" Diameter, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	34.62 17.20	
31 62 16 19-0003	VLF	10" Diameter, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	39.46 17.68	
31 62 16 19-0004	VLF	12" Diameter, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	45.97 19.06	
31 62 16 19-0005	VLF	14" Diameter, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	49.80 20.96	
31 62 16 19-0006	VLF	16" Diameter, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	55.43 23.39	
31 62 16 19-0007	VLF	18" Diameter, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	67.74 26.12	
31 62 16 19-0008		Splices And Points For Pipe Piles (31 62 16 19)		
31 62 16 19-0009		Steel Pipe Pile Splices (31 62 16 19-0008)		
31 62 16 19-0010	EA	8" Diameter, Steel Pipe Pile Splice.....	220.98	
31 62 16 19-0011	EA	10" Diameter, Steel Pipe Pile Splice.....	237.26	
31 62 16 19-0012	EA	12" Diameter, Steel Pipe Pile Splice.....	308.74	
31 62 16 19-0013	EA	14" Diameter, Steel Pipe Pile Splice.....	324.80	
31 62 16 19-0014	EA	16" Diameter, Steel Pipe Pile Splice.....	392.21	
31 62 16 19-0015	EA	18" Diameter, Steel Pipe Pile Splice.....	473.16	
31 62 16 19-0016		Steel Pipe Standard Pile Points (31 62 16 19-0008)		
31 62 16 19-0017	EA	8" Diameter, Steel Pipe Standard Pile Point.....	219.65	
31 62 16 19-0018	EA	10" Diameter, Steel Pipe Standard Pile Point.....	232.69	
31 62 16 19-0019	EA	12" Diameter, Steel Pipe Standard Pile Point.....	263.55	
31 62 16 19-0020	EA	14" Diameter, Steel Pipe Standard Pile Point.....	299.41	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 19-0021 EA 16" Diameter, Steel Pipe Standard Pile Point	332.01	
31 62 16 19-0022 EA 18" Diameter, Steel Pipe Standard Pile Point	383.00	
31 62 16 19-0023 Steel Pipe Heavy Duty Pile Points (31 62 16 19-0008)		
31 62 16 19-0024 EA 10" Diameter, Steel Pipe Heavy Duty Pile Point	321.35	
31 62 16 19-0025 EA 12" Diameter, Steel Pipe Heavy Duty Pile Point	337.65	
31 62 16 19-0026 EA 14" Diameter, Steel Pipe Heavy Duty Pile Point	378.74	
31 62 16 19-0027 EA 16" Diameter, Steel Pipe Heavy Duty Pile Point	443.95	
31 62 16 19-0028 EA 18" Diameter, Steel Pipe Heavy Duty Pile Point	501.55	
31 62 19 Timber Piles (31 62)		
31 62 19 00-0001 Friction Or End Bearing, Driven Treated Wood Piles (31 62 19)		
Note: 12 LB Penta-treated/CF.		
31 62 19 00-0002 LF Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	30.98	
For Piles Driven In Water, Add	12.64	
For Untreated Pile, Deduct	-7.54	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0003 LF >30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	32.52	
For Piles Driven In Water, Add	13.98	
For Untreated Pile, Deduct	-7.62	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0004 LF 39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	34.27	
For Piles Driven In Water, Add	14.88	
For Untreated Pile, Deduct	-7.97	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0005 LF >49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	36.81	
For Piles Driven In Water, Add	16.56	
For Untreated Pile, Deduct	-8.33	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0006 LF >59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	46.02	
For Piles Driven In Water, Add	18.91	
For Untreated Pile, Deduct	-11.14	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0007 LF >69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	57.59	
For Piles Driven In Water, Add	22.93	
For Untreated Pile, Deduct	-14.25	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 23 Composite Piles (31 62)		
31 62 23 13 Concrete-Filled Steel Piles (31 62 23)		
31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles (31 62 23 13)		
Note: Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0002 VLF 8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	37.90	
For Piles Driven In Water, Add	18.72	
31 62 23 13-0003 VLF 10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	44.27	
For Piles Driven In Water, Add	19.69	
31 62 23 13-0004 VLF 12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	52.73	
For Piles Driven In Water, Add	21.82	
31 62 23 13-0005 VLF 14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	58.84	
For Piles Driven In Water, Add	25.23	
31 62 23 13-0006 VLF 16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	65.38	
For Piles Driven In Water, Add	27.05	
31 62 23 13-0007 VLF 18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	79.80	
For Piles Driven In Water, Add	30.14	
31 62 23 13-0008 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles (31 62 23 13)		
Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0009 VLF 12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	46.06	
For Piles Driven In Water, Add	16.06	
31 62 23 13-0010 VLF 14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	55.48	
For Piles Driven In Water, Add	17.82	
31 62 23 13-0011 VLF 16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	62.64	
For Piles Driven In Water, Add	19.48	
31 62 23 13-0012 VLF 18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	68.12	
For Piles Driven In Water, Add	21.12	



Earthwork		31	31
Special Foundations And Load-bearing Elements		31 60	
Driven Piles		31 62	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0013 Tapered Friction Concrete-Filled Driven Steel Piles (31 62 23 13)		
Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0014 VLF 12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	45.23	
For Piles Driven In Water, Add	15.98	
31 62 23 13-0015 VLF 14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	46.54	
For Piles Driven In Water, Add	16.92	
31 62 23 13-0016 VLF 16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	56.38	
For Piles Driven In Water, Add	18.85	
31 62 23 13-0017 VLF 18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	64.81	
For Piles Driven In Water, Add	20.79	
31 62 23 13-0018 Thin Wall Shell Straight Sided Driven Steel Piles (31 62 23 13)		
31 62 23 13-0019 VLF 8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	27.85	
For Piles Driven In Water, Add	12.44	
For Thick Wall Shell, Add	0.04	
31 62 23 13-0020 VLF 10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	30.76	
For Piles Driven In Water, Add	13.80	
For Thick Wall Shell, Add	0.05	
31 62 23 13-0021 VLF 12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	33.66	
For Piles Driven In Water, Add	15.17	
For Thick Wall Shell, Add	0.05	
31 62 23 13-0022 VLF 14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	36.57	
For Piles Driven In Water, Add	16.54	
For Thick Wall Shell, Add	0.06	
31 62 23 13-0023 VLF 16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	39.48	
For Piles Driven In Water, Add	17.90	
For Thick Wall Shell, Add	0.06	
31 63 Bored Piles (31 63)		
31 63 36 Drilled Steel Piles (31 63)		
31 63 36 00-0001 Drill Hole (31 63 36)		
Note: Excludes removal of excess material.		
31 63 36 00-0002 Drilling Mobilization (31 63 36 00-0001)		
31 63 36 00-0003 EA >12" To 24" Diameter Hole, Drilling Mobilization	712.22	
31 63 36 00-0004 EA >24" Diameter Hole, Drilling Mobilization.....	949.64	
31 63 36 00-0005 Drill Hole In Soil (31 63 36 00-0001)		
31 63 36 00-0006 LF 18" Diameter, Up To 24' Depth, Drilled/Augered Hole	40.85	
31 63 36 00-0007 LF 20" Diameter, Up To 24' Depth, Drilled/Augered Hole	47.49	
31 63 36 00-0008 LF 22" Diameter, Up To 24' Depth, Drilled/Augered Hole	55.80	
31 63 36 00-0009 LF 24" Diameter, Up To 24' Depth, Drilled/Augered Hole	65.77	
31 63 36 00-0010 LF 26" Diameter, Up To 24' Depth, Drilled/Augered Hole	71.09	
31 63 36 00-0011 LF 28" Diameter, Up To 24' Depth, Drilled/Augered Hole	78.21	
31 63 36 00-0012 LF 30" Diameter, Up To 24' Depth, Drilled/Augered Hole	85.67	
31 63 36 00-0013 Steel H Piles (31 63 36)		
31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles (31 63 36 00-0013)		
Note: Includes guides, bracing and alignment.		
31 63 36 00-0015 VLF 8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	40.90	
For >2,400 To 3,600, Deduct	-1.27	
For >3,600 To 4,800, Deduct	-2.54	
For >4,800 To 6,000, Deduct	-4.59	
For >6,000, Deduct	-6.63	
31 63 36 00-0016 VLF 10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	46.55	
For >2,400 To 3,600, Deduct	-1.42	
For >3,600 To 4,800, Deduct	-2.85	
For >4,800 To 6,000, Deduct	-5.18	
For >6,000, Deduct	-7.50	
31 63 36 00-0017 VLF 10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	59.46	
For >2,400 To 3,600, Deduct	-1.75	
For >3,600 To 4,800, Deduct	-3.49	
For >4,800 To 6,000, Deduct	-6.47	
For >6,000, Deduct	-9.44	
31 63 36 00-0018 VLF 12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	56.33	
For >2,400 To 3,600, Deduct	-1.68	
For >3,600 To 4,800, Deduct	-3.35	
For >4,800 To 6,000, Deduct	-6.17	
For >6,000, Deduct	-8.99	
31 63 36 00-0019 VLF 12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	64.93	
For >2,400 To 3,600, Deduct	-1.89	
For >3,600 To 4,800, Deduct	-3.78	
For >4,800 To 6,000, Deduct	-7.03	
For >6,000, Deduct	-10.28	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 63 Bored Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0020 VLF 12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	75.29	
For >2,400 To 3,600, Deduct	-2.17	
For >3,600 To 4,800, Deduct	-4.35	
For >4,800 To 6,000, Deduct	-8.11	
For >6,000, Deduct	-11.88	
31 63 36 00-0021 VLF 12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	83.90	
For >2,400 To 3,600, Deduct	-2.39	
For >3,600 To 4,800, Deduct	-4.78	
For >4,800 To 6,000, Deduct	-8.97	
For >6,000, Deduct	-13.17	
31 63 36 00-0022 VLF 14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	74.70	
For >2,400 To 3,600, Deduct	-2.17	
For >3,600 To 4,800, Deduct	-4.33	
For >4,800 To 6,000, Deduct	-8.07	
For >6,000, Deduct	-11.80	
31 63 36 00-0023 VLF 14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	89.33	
For >2,400 To 3,600, Deduct	-2.53	
For >3,600 To 4,800, Deduct	-5.06	
For >4,800 To 6,000, Deduct	-9.53	
For >6,000, Deduct	-13.99	
31 63 36 00-0024 VLF 14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	100.65	
For >2,400 To 3,600, Deduct	-2.84	
For >3,600 To 4,800, Deduct	-5.68	
For >4,800 To 6,000, Deduct	-10.71	
For >6,000, Deduct	-15.74	
31 63 36 00-0025 VLF 14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	114.42	
For >2,400 To 3,600, Deduct	-3.18	
For >3,600 To 4,800, Deduct	-6.37	
For >4,800 To 6,000, Deduct	-12.09	
For >6,000, Deduct	-17.81	
31 63 36 00-0026 Welded Steel Stud Pins (31 63 36 00-0013)		
Note: Includes welding to steel piles.		
31 63 36 00-0027 EA 5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	10.42	
For >50 To 150, Deduct	-0.47	
For >150 To 250, Deduct	-0.97	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.96	
31 63 36 00-0028 EA 5/8" Diameter x 5" Long, Welded Steel Stud Pins	11.40	
For >50 To 150, Deduct	-0.47	
For >150 To 250, Deduct	-0.99	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-2.04	
31 63 36 00-0029 EA 5/8" Diameter x 7" Long, Welded Steel Stud Pins	12.34	
For >50 To 150, Deduct	-0.47	
For >150 To 250, Deduct	-1.02	
For >250 To 500, Deduct	-1.56	
For >500, Deduct	-2.11	
31 63 36 00-0030 EA 3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins	11.46	
For >50 To 150, Deduct	-0.50	
For >150 To 250, Deduct	-1.03	
For >250 To 500, Deduct	-1.57	
For >500, Deduct	-2.10	
31 63 36 00-0031 EA 3/4" Diameter x 5" Long, Welded Steel Stud Pins	12.94	
For >50 To 150, Deduct	-0.50	
For >150 To 250, Deduct	-1.07	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-2.21	
31 63 36 00-0032 EA 3/4" Diameter x 7" Long, Welded Steel Stud Pins	13.98	
For >50 To 150, Deduct	-0.50	
For >150 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.29	
31 63 36 00-0033 EA 7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	12.76	
For >50 To 150, Deduct	-0.52	
For >150 To 250, Deduct	-1.10	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.25	
31 63 36 00-0034 EA 7/8" Diameter x 5" Long, Welded Steel Stud Pins	15.18	
For >50 To 150, Deduct	-0.52	
For >150 To 250, Deduct	-1.16	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.43	
31 63 36 00-0035 EA 7/8" Diameter x 7" Long, Welded Steel Stud Pins	16.36	
For >50 To 150, Deduct	-0.52	
For >150 To 250, Deduct	-1.19	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.52	
31 63 36 00-0036 Concrete Fill (31 63 36)		
See CSI section 03 31 13 00-0088 for pumping equipment.		
31 63 36 00-0037 VLF 18" Diameter Hole Pumped Concrete Fill For Drilled Pile	38.31	
31 63 36 00-0038 VLF 20" Diameter Hole Pumped Concrete Fill For Drilled Pile	42.55	
31 63 36 00-0039 VLF 22" Diameter Hole Pumped Concrete Fill For Drilled Pile	46.80	



Earthwork			31	31
Special Foundations And Load-bearing Elements			31 60	
Bored Piles			31 63	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 63 36 00-0040	VLF	24" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	51.06	
31 63 36 00-0041	VLF	26" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	55.31	
31 63 36 00-0042	VLF	28" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	59.57	
31 63 36 00-0043	VLF	30" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	69.19	

31 64 Caissons (31 60)

31 64 13 Box Caissons (31 64)

31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water (31 64 13)
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0002 Caisson In Stable Ground (31 64 13 00-0001)
Note: Includes 3000 PSI concrete and reinforcing.

31 64 13 00-0003	VLF	18" Diameter Caisson, No Casing Stable Ground, No Ground Water	49.40	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.				
For >50' To 100' Deep, Add			5.12	
For >100' To 150' Deep, Add			12.35	
For >150' To 200' Deep, Add			16.90	
For Right Angle Drilling, Add			12.10	
For >3 To 9, Deduct			-1.56	
For >9, Deduct			-3.22	
31 64 13 00-0004	VLF	24" Diameter Caisson, No Casing Stable Ground, No Ground Water	64.19	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.				
For >50' To 100' Deep, Add			7.25	
For >100' To 150' Deep, Add			16.05	
For >150' To 200' Deep, Add			22.70	
For Right Angle Drilling, Add			13.86	
For >3 To 9, Deduct			-2.58	
For >9, Deduct			-5.33	
31 64 13 00-0005	VLF	30" Diameter Caisson, No Casing Stable Ground, No Ground Water	92.72	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.				
For >50' To 100' Deep, Add			10.90	
For >100' To 150' Deep, Add			23.18	
For >150' To 200' Deep, Add			33.32	
For Right Angle Drilling, Add			18.68	
For >3 To 9, Deduct			-4.13	
For >9, Deduct			-8.54	
31 64 13 00-0006	VLF	36" Diameter Caisson, No Casing Stable Ground, No Ground Water	124.38	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.				
For >50' To 100' Deep, Add			15.04	
For >100' To 150' Deep, Add			31.10	
For >150' To 200' Deep, Add			45.23	
For Right Angle Drilling, Add			23.74	
For >3 To 9, Deduct			-5.94	
For >9, Deduct			-12.27	
31 64 13 00-0007	VLF	42" Diameter Caisson, No Casing Stable Ground, No Ground Water	162.50	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.				
For >50' To 100' Deep, Add			20.28	
For >100' To 150' Deep, Add			40.63	
For >150' To 200' Deep, Add			59.88	
For Right Angle Drilling, Add			29.04	
For >3 To 9, Deduct			-8.35	
For >9, Deduct			-17.26	
31 64 13 00-0008	VLF	48" Diameter Caisson No Casing Stable Ground, No Ground Water	196.07	
Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.				
For >50' To 100' Deep, Add			24.83	
For >100' To 150' Deep, Add			49.02	
For >150' To 200' Deep, Add			72.70	
For Right Angle Drilling, Add			33.93	
For >3 To 9, Deduct			-10.41	
For >9, Deduct			-21.51	
31 64 13 00-0009	VLF	54" Diameter Caisson No Casing Stable Ground, No Ground Water	240.61	
Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.				
For >50' To 100' Deep, Add			31.25	
For >100' To 150' Deep, Add			60.15	
For >150' To 200' Deep, Add			90.20	
For Right Angle Drilling, Add			39.18	
For >3 To 9, Deduct			-13.51	
For >9, Deduct			-27.92	
31 64 13 00-0010	VLF	60" Diameter Caisson No Casing Stable Ground, No Ground Water	285.25	
Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.				
For >50' To 100' Deep, Add			37.69	
For >100' To 150' Deep, Add			71.31	
For >150' To 200' Deep, Add			107.73	
For Right Angle Drilling, Add			44.44	
For >3 To 9, Deduct			-16.62	
For >9, Deduct			-34.35	
31 64 13 00-0011	VLF	66" Diameter Caisson No Casing Stable Ground, No Ground Water	335.76	
Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.				
For >50' To 100' Deep, Add			44.95	
For >100' To 150' Deep, Add			83.94	
For >150' To 200' Deep, Add			127.54	
For Right Angle Drilling, Add			50.48	
For >3 To 9, Deduct			-20.11	
For >9, Deduct			-41.56	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0012	VLF	72" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	394.59	
		For >50' To 100' Deep, Add	53.46	
		For >100' To 150' Deep, Add	98.65	
		For >150' To 200' Deep, Add	150.67	
		For Right Angle Drilling, Add	57.37	
		For >3 To 9, Deduct	-24.22	
		For >9, Deduct	-50.06	
31 64 13 00-0013	VLF	78" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.	453.22	
		For >50' To 100' Deep, Add	62.05	
		For >100' To 150' Deep, Add	113.31	
		For >150' To 200' Deep, Add	173.87	
		For Right Angle Drilling, Add	63.87	
		For >3 To 9, Deduct	-28.43	
		For >9, Deduct	-58.75	
31 64 13 00-0014	VLF	84" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.	516.00	
		For >50' To 100' Deep, Add	71.29	
		For >100' To 150' Deep, Add	129.00	
		For >150' To 200' Deep, Add	198.76	
		For Right Angle Drilling, Add	70.70	
		For >3 To 9, Deduct	-32.97	
		For >9, Deduct	-68.14	
31 64 13 00-0015 For Bell Excavation And Concrete, Add (31 64 13 00-0001)				
31 64 13 00-0016	EA	Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	343.32	
		For >50' To 100' Deep, Add	28.58	
		For >100' To 150' Deep, Add	85.83	
		For >150' To 200' Deep, Add	108.68	
		For >3 To 9, Deduct	-4.26	
		For >9, Deduct	-8.81	
31 64 13 00-0017	EA	Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	1,207.29	
		For >50' To 100' Deep, Add	100.67	
		For >100' To 150' Deep, Add	301.82	
		For >150' To 200' Deep, Add	382.39	
		For >3 To 9, Deduct	-15.15	
		For >9, Deduct	-31.31	
31 64 13 00-0018	EA	Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	1,831.70	
		For >50' To 100' Deep, Add	155.41	
		For >100' To 150' Deep, Add	457.93	
		For >150' To 200' Deep, Add	583.50	
		For >3 To 9, Deduct	-25.49	
		For >9, Deduct	-52.68	
31 64 13 00-0019	EA	Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	2,543.57	
		For >50' To 100' Deep, Add	216.27	
		For >100' To 150' Deep, Add	635.89	
		For >150' To 200' Deep, Add	810.84	
		For >3 To 9, Deduct	-35.83	
		For >9, Deduct	-74.04	
31 64 13 00-0020	EA	Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	3,439.50	
		For >50' To 100' Deep, Add	286.72	
		For >100' To 150' Deep, Add	859.88	
		For >150' To 200' Deep, Add	1,089.30	
		For >3 To 9, Deduct	-43.09	
		For >9, Deduct	-89.05	
31 64 13 00-0021	EA	Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	4,044.00	
		For >50' To 100' Deep, Add	336.95	
		For >100' To 150' Deep, Add	1,011.00	
		For >150' To 200' Deep, Add	1,280.54	
		For >3 To 9, Deduct	-50.51	
		For >9, Deduct	-104.38	
31 64 13 00-0022	EA	Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	6,855.85	
		For >50' To 100' Deep, Add	569.98	
		For >100' To 150' Deep, Add	1,713.96	
		For >150' To 200' Deep, Add	2,169.34	
		For >3 To 9, Deduct	-84.44	
		For >9, Deduct	-174.50	
31 64 13 00-0023	EA	Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	9,932.37	
		For >50' To 100' Deep, Add	835.00	
		For >100' To 150' Deep, Add	2,483.09	
		For >150' To 200' Deep, Add	3,154.37	
		For >3 To 9, Deduct	-131.00	
		For >9, Deduct	-270.73	
31 64 13 00-0024		Caisson In Wet Ground, Casing Pulled (31 64 13) Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0025		Caisson In Wet Ground (31 64 13 00-0024) Note: Includes 3000 PSI concrete and reinforcing.		



		Earthwork	31
		Special Foundations And Load-bearing Elements	31 60
		Caissons	31 64

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0026	VLF		18" Diameter Caisson Wet Ground, Casing Pulled.....	53.99	
			Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	5.43	
			For >100' To 150' Deep, Add	13.50	
			For >150' To 200' Deep, Add	18.26	
			For Right Angle Drilling, Add	13.73	
			For >3 To 9, Deduct	-1.55	
			For >9, Deduct	-3.20	
31 64 13 00-0027	VLF		24" Diameter Caisson Wet Ground, Casing Pulled.....	89.96	
			Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	9.05	
			For >100' To 150' Deep, Add	22.49	
			For >150' To 200' Deep, Add	30.43	
			For Right Angle Drilling, Add	22.88	
			For >3 To 9, Deduct	-2.58	
			For >9, Deduct	-5.33	
31 64 13 00-0028	VLF		30" Diameter Caisson Wet Ground, Casing Pulled.....	121.73	
			Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	12.93	
			For >100' To 150' Deep, Add	30.43	
			For >150' To 200' Deep, Add	42.03	
			For Right Angle Drilling, Add	28.84	
			For >3 To 9, Deduct	-4.13	
			For >9, Deduct	-8.54	
31 64 13 00-0029	VLF		36" Diameter Caisson Wet Ground, Casing Pulled.....	168.04	
			Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	18.10	
			For >100' To 150' Deep, Add	42.01	
			For >150' To 200' Deep, Add	58.33	
			For Right Angle Drilling, Add	39.02	
			For >3 To 9, Deduct	-5.94	
			For >9, Deduct	-12.27	
31 64 13 00-0030	VLF		42" Diameter Caisson Wet Ground, Casing Pulled.....	216.38	
			Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	24.05	
			For >100' To 150' Deep, Add	54.10	
			For >150' To 200' Deep, Add	76.05	
			For Right Angle Drilling, Add	47.90	
			For >3 To 9, Deduct	-8.35	
			For >9, Deduct	-17.26	
31 64 13 00-0031	VLF		48" Diameter Caisson Wet Ground, Casing Pulled.....	259.97	
			Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	29.30	
			For >100' To 150' Deep, Add	64.99	
			For >150' To 200' Deep, Add	91.87	
			For Right Angle Drilling, Add	56.30	
			For >3 To 9, Deduct	-10.41	
			For >9, Deduct	-21.51	
31 64 13 00-0032	VLF		54" Diameter Caisson Wet Ground, Casing Pulled.....	336.38	
			Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	37.96	
			For >100' To 150' Deep, Add	84.10	
			For >150' To 200' Deep, Add	118.93	
			For Right Angle Drilling, Add	72.70	
			For >3 To 9, Deduct	-13.51	
			For >9, Deduct	-27.92	
31 64 13 00-0033	VLF		60" Diameter Caisson Wet Ground, Casing Pulled.....	412.05	
			Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	46.57	
			For >100' To 150' Deep, Add	103.01	
			For >150' To 200' Deep, Add	145.77	
			For Right Angle Drilling, Add	88.82	
			For >3 To 9, Deduct	-16.62	
			For >9, Deduct	-34.35	
31 64 13 00-0034	VLF		66" Diameter Caisson Wet Ground, Casing Pulled.....	474.46	
			Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	54.66	
			For >100' To 150' Deep, Add	118.62	
			For >150' To 200' Deep, Add	169.15	
			For Right Angle Drilling, Add	99.03	
			For >3 To 9, Deduct	-20.11	
			For >9, Deduct	-41.56	
31 64 13 00-0035	VLF		72" Diameter Caisson Wet Ground, Casing Pulled.....	545.17	
			Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	64.00	
			For >100' To 150' Deep, Add	136.29	
			For >150' To 200' Deep, Add	195.85	
			For Right Angle Drilling, Add	110.07	
			For >3 To 9, Deduct	-24.22	
			For >9, Deduct	-50.06	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 64 Caissons**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0036	VLF		78" Diameter Caisson Wet Ground, Casing Pulled.....	623.47	
			Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	73.97	
			For >100' To 150' Deep, Add	155.87	
			For >150' To 200' Deep, Add	224.95	
			For Right Angle Drilling, Add	123.45	
			For >3 To 9, Deduct	-28.43	
			For >9, Deduct	-58.75	
31 64 13 00-0037	VLF		84" Diameter Caisson Wet Ground, Casing Pulled.....	706.24	
			Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	84.60	
			For >100' To 150' Deep, Add	176.56	
			For >150' To 200' Deep, Add	255.83	
			For Right Angle Drilling, Add	137.28	
			For >3 To 9, Deduct	-32.97	
			For >9, Deduct	-68.14	
31 64 13 00-0038 For Bell Excavation And Concrete, Add (31 64 13 00-0024)					
31 64 13 00-0039	EA		Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY.....	393.49	
			For >50' To 100' Deep, Add	32.09	
			For >100' To 150' Deep, Add	98.37	
			For >150' To 200' Deep, Add	123.73	
			For >3 To 9, Deduct	-4.26	
			For >9, Deduct	-8.81	
31 64 13 00-0040	EA		Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY.....	1,371.51	
			For >50' To 100' Deep, Add	112.17	
			For >100' To 150' Deep, Add	342.88	
			For >150' To 200' Deep, Add	431.66	
			For >3 To 9, Deduct	-15.15	
			For >9, Deduct	-31.31	
31 64 13 00-0041	EA		Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY.....	1,860.69	
			For >50' To 100' Deep, Add	140.60	
			For >100' To 150' Deep, Add	465.17	
			For >150' To 200' Deep, Add	571.15	
			For >3 To 9, Deduct	-9.71	
			For >9, Deduct	-20.06	
31 64 13 00-0042	EA		Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY.....	3,018.66	
			For >50' To 100' Deep, Add	249.52	
			For >100' To 150' Deep, Add	754.67	
			For >150' To 200' Deep, Add	953.37	
			For >3 To 9, Deduct	-35.83	
			For >9, Deduct	-74.04	
31 64 13 00-0043	EA		Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY.....	3,907.53	
			For >50' To 100' Deep, Add	319.49	
			For >100' To 150' Deep, Add	976.88	
			For >150' To 200' Deep, Add	1,229.71	
			For >3 To 9, Deduct	-43.09	
			For >9, Deduct	-89.05	
31 64 13 00-0044	EA		Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY.....	4,594.63	
			For >50' To 100' Deep, Add	375.50	
			For >100' To 150' Deep, Add	1,148.66	
			For >150' To 200' Deep, Add	1,445.73	
			For >3 To 9, Deduct	-50.51	
			For >9, Deduct	-104.38	
31 64 13 00-0045	EA		Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY.....	7,791.91	
			For >50' To 100' Deep, Add	635.50	
			For >100' To 150' Deep, Add	1,947.98	
			For >150' To 200' Deep, Add	2,450.16	
			For >3 To 9, Deduct	-84.44	
			For >9, Deduct	-174.50	
31 64 13 00-0046	EA		Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY.....	11,269.59	
			For >50' To 100' Deep, Add	928.60	
			For >100' To 150' Deep, Add	2,817.40	
			For >150' To 200' Deep, Add	3,555.54	
			For >3 To 9, Deduct	-131.00	
			For >9, Deduct	-270.73	
31 64 13 00-0047 Caisson In Soft Rock And Medium Hard Shale (31 64 13)					
			Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048 Caisson In Soft Rock (31 64 13 00-0047)					
			Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049	VLF		18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	191.74	
			Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
			For Right Angle Drilling, Add	61.94	
			For >3 To 9, Deduct	-1.55	
			For >9, Deduct	-3.20	
31 64 13 00-0050	VLF		24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	319.58	
			Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
			For Right Angle Drilling, Add	103.25	
			For >3 To 9, Deduct	-2.58	
			For >9, Deduct	-5.33	



		Earthwork	31	31
		Special Foundations And Load-bearing Elements	31 60	
		Caissons	31 64	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0051	VLF		30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	482.77	
			Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
			For Right Angle Drilling, Add	155.20	
			For >3 To 9, Deduct	-4.13	
			For >9, Deduct	-8.54	
31 64 13 00-0052	VLF		36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	619.42	
			Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
			For Right Angle Drilling, Add	197.01	
			For >3 To 9, Deduct	-5.94	
			For >9, Deduct	-12.27	
31 64 13 00-0053	VLF		42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	798.78	
			Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	64.82	
			For >100' To 150' Deep, Add	199.70	
			For >150' To 200' Deep, Add	250.77	
			For Right Angle Drilling, Add	251.74	
			For >3 To 9, Deduct	-8.35	
			For >9, Deduct	-17.26	
31 64 13 00-0054	VLF		48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	963.69	
			Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
			For Right Angle Drilling, Add	302.60	
			For >3 To 9, Deduct	-10.41	
			For >9, Deduct	-21.51	
31 64 13 00-0055	VLF		54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,182.14	
			Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	97.16	
			For >100' To 150' Deep, Add	295.54	
			For >150' To 200' Deep, Add	372.66	
			For Right Angle Drilling, Add	368.71	
			For >3 To 9, Deduct	-13.51	
			For >9, Deduct	-27.92	
31 64 13 00-0056	VLF		60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,400.03	
			Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
			For Right Angle Drilling, Add	434.61	
			For >3 To 9, Deduct	-16.62	
			For >9, Deduct	-34.35	
31 64 13 00-0057	VLF		66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,545.11	
			Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	129.61	
			For >100' To 150' Deep, Add	386.28	
			For >150' To 200' Deep, Add	490.35	
			For Right Angle Drilling, Add	473.75	
			For >3 To 9, Deduct	-20.11	
			For >9, Deduct	-41.56	
31 64 13 00-0058	VLF		72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,697.83	
			Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
			For Right Angle Drilling, Add	513.50	
			For >3 To 9, Deduct	-24.22	
			For >9, Deduct	-50.06	
31 64 13 00-0059	VLF		78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,753.91	
			Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	153.10	
			For >100' To 150' Deep, Add	438.48	
			For >150' To 200' Deep, Add	564.08	
			For Right Angle Drilling, Add	519.11	
			For >3 To 9, Deduct	-28.43	
			For >9, Deduct	-58.75	
31 64 13 00-0060	VLF		84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,090.49	
			Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
			For Right Angle Drilling, Add	621.77	
			For >3 To 9, Deduct	-32.97	
			For >9, Deduct	-68.14	
31 64 13 00-0061			For Bell Excavation And Concrete, Add (31 64 13 00-0047)		
31 64 13 00-0062	EA		Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY	668.39	
			For >3 To 9, Deduct	-4.26	
			For >9, Deduct	-8.81	
31 64 13 00-0063	EA		Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY	2,352.37	
			For >3 To 9, Deduct	-15.15	
			For >9, Deduct	-31.31	
31 64 13 00-0064	EA		Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY	3,531.14	
			For >3 To 9, Deduct	-25.49	
			For >9, Deduct	-52.68	
31 64 13 00-0065	EA		Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY	5,026.51	
			For >3 To 9, Deduct	-35.83	
			For >9, Deduct	-74.04	
31 64 13 00-0066	EA		Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY	6,634.56	
			For >3 To 9, Deduct	-43.09	
			For >9, Deduct	-89.05	
31 64 13 00-0067	EA		Bell Excavation And Concrete, 10' Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY	8,080.15	
			For >3 To 9, Deduct	-50.51	
			For >9, Deduct	-104.38	
31 64 13 00-0068	EA		Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY	12,235.97	
			For >3 To 9, Deduct	-84.44	
			For >9, Deduct	-174.50	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0069	EA	Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY	18,411.82	
		For >3 To 9, Deduct	-131.00	
		For >9, Deduct	-270.73	
31 64 13 00-0070		Caisson Setup And Removal (31 64 13)		
		Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.		
31 64 13 00-0071	EA	Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete	3,054.89	
		For >3 To 9, Deduct	-14.46	
		For >9, Deduct	-29.88	
31 64 13 00-0072	EA	Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete	4,330.18	
		For >3 To 9, Deduct	-38.55	
		For >9, Deduct	-79.67	
31 64 13 00-0073	EA	Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter.....	1,431.07	
31 64 13 00-0074	EA	Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter.....	1,908.09	
31 64 13 00-0075	EA	Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	119.26	
31 66 Special Foundation		(31 60)		
31 66 15 Helical Foundation Piles		(31 66)		
31 66 15 00-0001		Helical Pier Restoration (Atlas) (31 66 15)		
31 66 15 00-0002	EA	Structural Steel Piers (Atlas Pier System Or Equal).....	2,580.96	
		Note: Includes heavy duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling		
		For >3 To 9, Deduct	-193.57	
		For >9, Deduct	-400.05	
31 66 15 00-0003	EA	Pressure Injecting Grout For Slab Repairs, Per Location	319.02	
		Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling.		
		For >3 To 9, Deduct	-23.93	
		For >9, Deduct	-49.45	
31 66 15 00-0004	CY	Pressure Injected Non-Shrink Grout	319.02	
		For >3 To 9, Deduct	-23.93	
		For >9, Deduct	-49.45	
31 68 Foundation Anchors		(31 60)		
31 68 13 Rock Foundation Anchors		(31 68)		
31 68 13 00-0001		Materials And Placement (31 68 13)		
31 68 13 00-0002		Hollow Core Prestressable Anchor, ASTM A615 (31 68 13 00-0001)		
		Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00- 0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0003		3/4" Diameter (31 68 13 00-0002)		
31 68 13 00-0004	EA	3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor	146.07	
		For >3 To 9, Deduct	-6.63	
		For >9, Deduct	-13.70	
31 68 13 00-0005	EA	3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor	209.12	
		For >3 To 9, Deduct	-9.91	
		For >9, Deduct	-20.49	
31 68 13 00-0006	EA	3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor	252.95	
		For >3 To 9, Deduct	-13.20	
		For >9, Deduct	-27.28	
31 68 13 00-0007	EA	3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor	335.25	
		For >3 To 9, Deduct	-16.49	
		For >9, Deduct	-34.08	
31 68 13 00-0008		1" Diameter (31 68 13 00-0002)		
31 68 13 00-0009	EA	1" Rock Bolt, 5' Hollow Core Prestressable Anchor	182.69	
		For >3 To 9, Deduct	-9.37	
		For >9, Deduct	-19.37	
31 68 13 00-0010	EA	1" Rock Bolt, 10' Hollow Core Prestressable Anchor	279.56	
		For >3 To 9, Deduct	-15.20	
		For >9, Deduct	-31.41	
31 68 13 00-0011	EA	1" Rock Bolt, 15' Hollow Core Prestressable Anchor	357.19	
		For >3 To 9, Deduct	-21.02	
		For >9, Deduct	-43.44	
31 68 13 00-0012	EA	1" Rock Bolt, 20' Hollow Core Prestressable Anchor	473.32	
		For >3 To 9, Deduct	-26.84	
		For >9, Deduct	-55.48	
31 68 13 00-0013		1-3/8" Diameter (31 68 13 00-0002)		
31 68 13 00-0014	EA	1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor	295.64	
		For >3 To 9, Deduct	-17.84	
		For >9, Deduct	-36.88	



		Earthwork	31
		Special Foundations And Load-bearing Elements	31 60
		Foundation Anchors	31 68

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0015	EA	1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	457.28	
		For >3 To 9, Deduct	-28.53	
		For >9, Deduct	-58.95	
31 68 13 00-0016	EA	1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	599.70	
		For >3 To 9, Deduct	-39.21	
		For >9, Deduct	-81.03	
31 68 13 00-0017	EA	1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	780.57	
		For >3 To 9, Deduct	-49.89	
		For >9, Deduct	-103.10	
31 68 13 00-0018 2" Diameter (31 68 13 00-0002)				
31 68 13 00-0019	EA	2" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	639.15	
		For >3 To 9, Deduct	-43.61	
		For >9, Deduct	-90.12	
31 68 13 00-0020	EA	2" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	948.72	
		For >3 To 9, Deduct	-65.38	
		For >9, Deduct	-135.13	
31 68 13 00-0021	EA	2" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	1,239.02	
		For >3 To 9, Deduct	-87.16	
		For >9, Deduct	-180.12	
31 68 13 00-0022	EA	2" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	1,567.83	
		For >3 To 9, Deduct	-108.93	
		For >9, Deduct	-225.13	
31 68 13 00-0023 Super High-Tensile Anchors, ASTM A-108 (31 68 13 00-0001)				
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.				
31 68 13 00-0024 3/4" Diameter (31 68 13 00-0023)				
31 68 13 00-0025	EA	3/4" Rock Bolt, 5' Super High-Tensile Anchor.....	109.00	
		For >3 To 9, Deduct	-3.85	
		For >9, Deduct	-7.95	
31 68 13 00-0026	EA	3/4" Rock Bolt, 10' Super High-Tensile Anchor.....	145.41	
		For >3 To 9, Deduct	-5.14	
		For >9, Deduct	-10.61	
31 68 13 00-0027	EA	3/4" Rock Bolt, 15' Super High-Tensile Anchor.....	162.52	
		For >3 To 9, Deduct	-6.42	
		For >9, Deduct	-13.26	
31 68 13 00-0028	EA	3/4" Rock Bolt, 20' Super High-Tensile Anchor.....	216.87	
		For >3 To 9, Deduct	-7.61	
		For >9, Deduct	-15.73	
31 68 13 00-0029 1" Diameter (31 68 13 00-0023)				
31 68 13 00-0030	EA	1" Rock Bolt, 5' Super High-Tensile Anchor.....	128.01	
		For >3 To 9, Deduct	-5.27	
		For >9, Deduct	-10.90	
31 68 13 00-0031	EA	1" Rock Bolt, 10' Super High-Tensile Anchor.....	177.44	
		For >3 To 9, Deduct	-7.54	
		For >9, Deduct	-15.58	
31 68 13 00-0032	EA	1" Rock Bolt, 15' Super High-Tensile Anchor.....	206.10	
		For >3 To 9, Deduct	-9.69	
		For >9, Deduct	-20.02	
31 68 13 00-0033	EA	1" Rock Bolt, 20' Super High-Tensile Anchor.....	273.24	
		For >3 To 9, Deduct	-11.84	
		For >9, Deduct	-24.46	
31 68 13 00-0034 1-1/4" Diameter (31 68 13 00-0023)				
31 68 13 00-0035	EA	1-1/4" Rock Bolt, 5' Super High-Tensile Anchor.....	183.85	
		For >3 To 9, Deduct	-9.46	
		For >9, Deduct	-19.55	
31 68 13 00-0036	EA	1-1/4" Rock Bolt, 10' Super High-Tensile Anchor.....	257.48	
		For >3 To 9, Deduct	-13.54	
		For >9, Deduct	-27.98	
31 68 13 00-0037	EA	1-1/4" Rock Bolt, 15' Super High-Tensile Anchor.....	311.53	
		For >3 To 9, Deduct	-17.59	
		For >9, Deduct	-36.36	
31 68 13 00-0038	EA	1-1/4" Rock Bolt, 20' Super High-Tensile Anchor.....	401.79	
		For >3 To 9, Deduct	-21.48	
		For >9, Deduct	-44.39	
31 68 13 00-0039 2" Diameter (31 68 13 00-0023)				
31 68 13 00-0040	EA	2" Rock Bolt, 5' Super High-Tensile Anchor.....	468.09	
		For >3 To 9, Deduct	-30.78	
		For >9, Deduct	-63.61	
31 68 13 00-0041	EA	2" Rock Bolt, 10' Super High-Tensile Anchor.....	664.60	
		For >3 To 9, Deduct	-44.07	
		For >9, Deduct	-91.09	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 68 Foundation Anchors**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0042	EA	2" Rock Bolt, 15' Super High-Tensile Anchor.....	808.75	
		For >3 To 9, Deduct	-54.89	
		For >9, Deduct	-113.43	
31 68 13 00-0043	EA	2" Rock Bolt, 20' Super High-Tensile Anchor.....	1,000.10	
		For >3 To 9, Deduct	-66.35	
		For >9, Deduct	-137.13	
31 68 13 00-0044		Solid Rebar Anchors, ASTM A615 (31 68 13 00-0001)		
		Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045		3/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0046	EA	3/4" Rock Bolt, 5' Solid Rebar Anchor.....	102.89	
		For >3 To 9, Deduct	-3.39	
		For >9, Deduct	-7.00	
31 68 13 00-0047	EA	3/4" Rock Bolt, 10' Solid Rebar Anchor.....	132.50	
		For >3 To 9, Deduct	-4.17	
		For >9, Deduct	-8.61	
31 68 13 00-0048	EA	3/4" Rock Bolt, 15' Solid Rebar Anchor.....	142.85	
		For >3 To 9, Deduct	-4.94	
		For >9, Deduct	-10.22	
31 68 13 00-0049	EA	3/4" Rock Bolt, 20' Solid Rebar Anchor.....	191.69	
		For >3 To 9, Deduct	-5.72	
		For >9, Deduct	-11.82	
31 68 13 00-0050		1" Diameter (31 68 13 00-0044)		
31 68 13 00-0051	EA	1" Rock Bolt, 5' Solid Rebar Anchor.....	114.64	
		For >3 To 9, Deduct	-4.27	
		For >9, Deduct	-8.82	
31 68 13 00-0052	EA	1" Rock Bolt, 10' Solid Rebar Anchor.....	151.93	
		For >3 To 9, Deduct	-5.62	
		For >9, Deduct	-11.62	
31 68 13 00-0053	EA	1" Rock Bolt, 15' Solid Rebar Anchor.....	170.00	
		For >3 To 9, Deduct	-6.98	
		For >9, Deduct	-14.42	
31 68 13 00-0054	EA	1" Rock Bolt, 20' Solid Rebar Anchor.....	226.50	
		For >3 To 9, Deduct	-8.33	
		For >9, Deduct	-17.22	
31 68 13 00-0055		1-1/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0056	EA	1-1/4" Rock Bolt, 5' Solid Rebar Anchor	161.64	
		For >3 To 9, Deduct	-7.79	
		For >9, Deduct	-16.11	
31 68 13 00-0057	EA	1-1/4" Rock Bolt, 10' Solid Rebar Anchor	209.08	
		For >3 To 9, Deduct	-9.91	
		For >9, Deduct	-20.48	
31 68 13 00-0058	EA	1-1/4" Rock Bolt, 15' Solid Rebar Anchor	237.35	
		For >3 To 9, Deduct	-12.03	
		For >9, Deduct	-24.86	
31 68 13 00-0059	EA	1-1/4" Rock Bolt, 20' Solid Rebar Anchor	304.07	
		For >3 To 9, Deduct	-14.15	
		For >9, Deduct	-29.24	
31 68 13 00-0060		Resin Anchoring With Grade 60 Rebar (31 68 13 00-0001)		
		Note: Pricing includes only material and labor to install anchors.. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061		Rebar #6 (31 68 13 00-0060)		
31 68 13 00-0062	EA	#6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar.....	61.65	
		For >3 To 9, Deduct	-0.30	
		For >9, Deduct	-0.61	
31 68 13 00-0063	EA	#6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar.....	84.82	
		For >3 To 9, Deduct	-0.59	
		For >9, Deduct	-1.22	
31 68 13 00-0064	EA	#6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar.....	88.76	
		For >3 To 9, Deduct	-0.89	
		For >9, Deduct	-1.83	
31 68 13 00-0065	EA	#6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	123.29	
		For >3 To 9, Deduct	-0.59	
		For >9, Deduct	-1.22	
31 68 13 00-0066		Rebar #8 (31 68 13 00-0060)		
31 68 13 00-0067	EA	#8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	64.71	
		For >3 To 9, Deduct	-0.53	
		For >9, Deduct	-1.09	
31 68 13 00-0068	EA	#8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	90.94	
		For >3 To 9, Deduct	-1.05	
		For >9, Deduct	-2.17	



		Earthwork	31
		Special Foundations And Load-bearing Elements	31 60
		Foundation Anchors	31 68

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0069	EA		#8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	97.95	
			For >3 To 9, Deduct	-1.58	
			For >9, Deduct	-3.26	
31 68 13 00-0070	EA		#8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	143.42	
			For >3 To 9, Deduct	-2.10	
			For >9, Deduct	-4.34	
31 68 13 00-0071 Rebar #10 (31 68 13 00-0060)					
31 68 13 00-0072	EA		#10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	69.09	
			For >3 To 9, Deduct	-0.85	
			For >9, Deduct	-1.76	
31 68 13 00-0073	EA		#10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	99.70	
			For >3 To 9, Deduct	-1.71	
			For >9, Deduct	-3.53	
31 68 13 00-0074	EA		#10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	111.07	
			For >3 To 9, Deduct	-2.56	
			For >9, Deduct	-5.29	
31 68 13 00-0075	EA		#10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	160.92	
			For >3 To 9, Deduct	-3.41	
			For >9, Deduct	-7.05	
31 68 13 00-0076 Rebar #14 (31 68 13 00-0060)					
31 68 13 00-0077	EA		#14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	79.59	
			For >3 To 9, Deduct	-1.64	
			For >9, Deduct	-3.39	
31 68 13 00-0078	EA		#14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	120.70	
			For >3 To 9, Deduct	-3.28	
			For >9, Deduct	-6.78	
31 68 13 00-0079	EA		#14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	142.58	
			For >3 To 9, Deduct	-4.92	
			For >9, Deduct	-10.17	
31 68 13 00-0080	EA		#14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	202.93	
			For >3 To 9, Deduct	-6.56	
			For >9, Deduct	-13.57	
31 68 13 00-0081 Plastic Rebar Collars, Sizes #6-#14 (31 68 13 00-0060)					
31 68 13 00-0082	EA		Plastic Rebar Collars For Rebar #4 To #14.....	0.67	
			For >3 To 9, Deduct	-0.05	
			For >9, Deduct	-0.10	
31 68 13 00-0083 12" Long Resin Cartridges (31 68 13 00-0001)					
31 68 13 00-0084	EA		7/8" Resin Cartridge 12" Long.....	1.93	
			For >3 To 9, Deduct	-0.14	
			For >9, Deduct	-0.30	
31 68 13 00-0085	EA		1" Resin Cartridge 12" Long.....	2.64	
			For >3 To 9, Deduct	-0.20	
			For >9, Deduct	-0.41	
31 68 13 00-0086	EA		1-1/16" Resin Cartridge 12" Long.....	2.83	
			For >3 To 9, Deduct	-0.21	
			For >9, Deduct	-0.44	
31 68 13 00-0087	EA		1-1/4" Resin Cartridge 12" Long.....	3.06	
			For >3 To 9, Deduct	-0.23	
			For >9, Deduct	-0.47	
31 68 13 00-0088	EA		1-3/8" Resin Cartridge 12" Long.....	3.51	
			For >3 To 9, Deduct	-0.26	
			For >9, Deduct	-0.54	
31 68 13 00-0089	EA		1-9/16" Resin Cartridge 12" Long.....	4.40	
			For >3 To 9, Deduct	-0.33	
			For >9, Deduct	-0.68	
31 68 13 00-0090	EA		1-3/4" Resin Cartridge 12" Long.....	6.04	
			For >3 To 9, Deduct	-0.45	
			For >9, Deduct	-0.94	
31 68 13 00-0091 Head Assembly (31 68 13 00-0001)					
31 68 13 00-0092 3/4" Rod Diameter (31 68 13 00-0091)					
31 68 13 00-0093	EA		3/4" Rod Head Assembly 1-5/8" Short Cone and Shell.....	19.15	
			For >3 To 9, Deduct	-1.44	
			For >9, Deduct	-2.97	
31 68 13 00-0094	EA		3/4" Rod Head Assembly 1-3/4" Short Cone and Shell.....	16.13	
			For >3 To 9, Deduct	-1.21	
			For >9, Deduct	-2.50	
31 68 13 00-0095	EA		3/4" Rod Head Assembly 1-7/8" Short Cone and Shell.....	16.91	
			For >3 To 9, Deduct	-1.27	
			For >9, Deduct	-2.62	
31 68 13 00-0096	EA		3/4" Rod Head Assembly 1-3/4" Long Cone and Shell.....	30.37	
			For >3 To 9, Deduct	-2.28	
			For >9, Deduct	-4.71	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 68 Foundation Anchors**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0097	EA	3/4" Rod Head Assembly 1-7/8" Long Cone and Shell	30.37	
		For >3 To 9, Deduct	-2.28	
		For >9, Deduct	-4.71	
31 68 13 00-0098	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	28.77	
		For >3 To 9, Deduct	-2.16	
		For >9, Deduct	-4.46	
31 68 13 00-0099		1" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0100	EA	1" Rod Head Assembly 1-5/8" Short Cone and Shell	20.63	
		For >3 To 9, Deduct	-1.55	
		For >9, Deduct	-3.20	
31 68 13 00-0101	EA	1" Rod Head Assembly 1-3/4" Short Cone and Shell	17.66	
		For >3 To 9, Deduct	-1.32	
		For >9, Deduct	-2.74	
31 68 13 00-0102	EA	1" Rod Head Assembly 1-7/8" Short Cone and Shell	18.45	
		For >3 To 9, Deduct	-1.38	
		For >9, Deduct	-2.86	
31 68 13 00-0103	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell	31.95	
		For >3 To 9, Deduct	-2.40	
		For >9, Deduct	-4.95	
31 68 13 00-0104	EA	1" Rod Head Assembly 1-7/8" Long Cone and Shell	31.95	
		For >3 To 9, Deduct	-2.40	
		For >9, Deduct	-4.95	
31 68 13 00-0105	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell	30.46	
		For >3 To 9, Deduct	-2.28	
		For >9, Deduct	-4.72	
31 68 13 00-0106		1-1/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0107	EA	1-1/4" Rod Head Assembly 2" Short Cone and Shell	46.04	
		For >3 To 9, Deduct	-3.45	
		For >9, Deduct	-7.14	
31 68 13 00-0108	EA	1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell	53.78	
		For >3 To 9, Deduct	-4.03	
		For >9, Deduct	-8.34	
31 68 13 00-0109	EA	1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell	54.55	
		For >3 To 9, Deduct	-4.09	
		For >9, Deduct	-8.46	
31 68 13 00-0110	EA	1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell	48.38	
		For >3 To 9, Deduct	-3.63	
		For >9, Deduct	-7.50	
31 68 13 00-0111	EA	1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell	56.41	
		For >3 To 9, Deduct	-4.23	
		For >9, Deduct	-8.74	
31 68 13 00-0112		1-7/8" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0113	EA	1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/FI	181.20	
		For >3 To 9, Deduct	-13.59	
		For >9, Deduct	-28.09	
31 68 13 00-0114	EA	1-7/8" Rod Head Assembly 3" Long Cone and Shell	124.92	
		For >3 To 9, Deduct	-9.37	
		For >9, Deduct	-19.36	
31 68 13 00-0115		2" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0116	EA	2" Rod Head Assembly 3-1/2" Long Cone/Shell/FI	181.20	
		For >3 To 9, Deduct	-13.59	
		For >9, Deduct	-28.09	
31 68 13 00-0117	EA	2" Rod Head Assembly 3" Long Cone and Shell	124.92	
		For >3 To 9, Deduct	-9.37	
		For >9, Deduct	-19.36	
31 68 13 00-0118		Steel Plates With Standard Hole And Washers (31 68 13 00-0001)		
31 68 13 00-0119		Steel Plates (31 68 13 00-0118)		
31 68 13 00-0120	EA	1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer	2.86	
		For >3 To 9, Deduct	-0.21	
		For >9, Deduct	-0.44	
31 68 13 00-0121	EA	1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer	5.27	
		For >3 To 9, Deduct	-0.40	
		For >9, Deduct	-0.82	
31 68 13 00-0122	EA	3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer	7.34	
		For >3 To 9, Deduct	-0.55	
		For >9, Deduct	-1.14	
31 68 13 00-0123	EA	3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer	12.87	
		For >3 To 9, Deduct	-0.97	
		For >9, Deduct	-1.99	
31 68 13 00-0124	EA	1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer	5.00	
		For >3 To 9, Deduct	-0.38	
		For >9, Deduct	-0.78	



	Earthwork	31	
	Special Foundations And Load-bearing Elements	31 60	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0125	EA	1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer	13.12	
		For >3 To 9, Deduct	-0.98	
		For >9, Deduct	-2.03	
31 68 13 00-0126	EA	3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer	21.78	
		For >3 To 9, Deduct	-1.63	
		For >9, Deduct	-3.38	
31 68 13 00-0127	EA	3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer	30.86	
		For >3 To 9, Deduct	-2.31	
		For >9, Deduct	-4.78	
31 68 13 00-0128	EA	1" x 4" x 7" Steel Plate For Rock Bolt With Washer	18.52	
		For >3 To 9, Deduct	-1.39	
		For >9, Deduct	-2.87	
31 68 13 00-0129	EA	1" x 9" x 9" Steel Plate For Rock Bolt With Washer	52.40	
		For >3 To 9, Deduct	-3.93	
		For >9, Deduct	-8.12	
31 68 13 00-0130	EA	1" x 12" x 12" Steel Plate For Rock Bolt With Washer	77.21	
		For >3 To 9, Deduct	-5.79	
		For >9, Deduct	-11.97	
31 68 13 00-0131	EA	1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer	33.89	
		For >3 To 9, Deduct	-2.54	
		For >9, Deduct	-5.25	
31 68 13 00-0132	EA	1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer	91.67	
		For >3 To 9, Deduct	-6.88	
		For >9, Deduct	-14.21	
31 68 13 00-0133	EA	1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer	45.84	
		For >3 To 9, Deduct	-3.44	
		For >9, Deduct	-7.11	
31 68 13 00-0134	EA	1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer	110.26	
		For >3 To 9, Deduct	-8.27	
		For >9, Deduct	-17.09	
31 68 13 00-0135	EA	1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer	50.60	
		For >3 To 9, Deduct	-3.80	
		For >9, Deduct	-7.84	
31 68 13 00-0136	EA	1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer	122.29	
		For >3 To 9, Deduct	-9.17	
		For >9, Deduct	-18.95	
31 68 13 00-0137 Hardened Washers (31 68 13 00-0118)				
31 68 13 00-0138	EA	Hardened Washer For 3/4" Diameter Rock Bolt	0.63	
		For >3 To 9, Deduct	-0.05	
		For >9, Deduct	-0.10	
31 68 13 00-0139	EA	Hardened Washer For 1" Diameter Rock Bolt	0.88	
		For >3 To 9, Deduct	-0.07	
		For >9, Deduct	-0.14	
31 68 13 00-0140	EA	Hardened Washer For 1-1/4" Diameter Rock Bolt	2.45	
		For >3 To 9, Deduct	-0.18	
		For >9, Deduct	-0.38	
31 68 13 00-0141	EA	Hardened Washer For 2" Diameter Rock Bolt	6.10	
		For >3 To 9, Deduct	-0.46	
		For >9, Deduct	-0.95	
31 68 13 00-0142 Beveled Washers (31 68 13 00-0118)				
31 68 13 00-0143	EA	Beveled Washer For 3/4" Diameter Rock Bolt	1.60	
		For >3 To 9, Deduct	-0.12	
		For >9, Deduct	-0.25	
31 68 13 00-0144	EA	Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt	1.58	
		For >3 To 9, Deduct	-0.12	
		For >9, Deduct	-0.24	
31 68 13 00-0145	EA	Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt	2.38	
		For >3 To 9, Deduct	-0.18	
		For >9, Deduct	-0.37	
31 68 13 00-0146	EA	Beveled Washer For 1-1/2" Diameter Rock Bolt	10.20	
		For >3 To 9, Deduct	-0.77	
		For >9, Deduct	-1.58	
31 68 13 00-0147	EA	Beveled Washer For 2" Diameter Rock Bolt	7.05	
		For >3 To 9, Deduct	-0.53	
		For >9, Deduct	-1.09	
31 68 13 00-0148 Hex Nuts (31 68 13 00-0118)				
31 68 13 00-0149	EA	Hex Nut For 3/4" Diameter Rock Bolt	1.25	
		For >3 To 9, Deduct	-0.09	
		For >9, Deduct	-0.19	
31 68 13 00-0150	EA	Hex Nut For 1" Diameter Rock Bolt	2.03	
		For >3 To 9, Deduct	-0.15	
		For >9, Deduct	-0.31	
31 68 13 00-0151	EA	Hex Nut For 1-1/4" Diameter Rock Bolt	8.34	
		For >3 To 9, Deduct	-0.63	
		For >9, Deduct	-1.29	
31 68 13 00-0152	EA	Hex Nut For 1-1/2" Diameter Rock Bolt	5.25	
		For >3 To 9, Deduct	-0.39	
		For >9, Deduct	-0.81	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 68 Foundation Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0153 EA Hex Nut For 2" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	33.50 -2.51 -5.19	
31 68 13 00-0154 Drilling Operation For Rockbolts (31 68 13)		
31 68 13 00-0155 Drill Holes For Rock Bolts (31 68 13 00-0154)		
31 68 13 00-0156 3/4" Diameter Bolt, 1-3/4" Hole (31 68 13 00-0155)		
31 68 13 00-0157 EA Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts.....	142.52	
31 68 13 00-0158 EA Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts.....	269.19	
31 68 13 00-0159 EA Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts.....	403.80	
31 68 13 00-0160 EA Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts.....	484.56	
31 68 13 00-0161 1" Diameter Bolt, 2" Hole (31 68 13 00-0155)		
31 68 13 00-0162 EA Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt.....	186.37	
31 68 13 00-0163 EA Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	346.12	
31 68 13 00-0164 EA Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	484.56	
31 68 13 00-0165 EA Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	605.69	
31 68 13 00-0166 1-1/4" Diameter Bolt, 2-1/4" Hole (31 68 13 00-0155)		
31 68 13 00-0167 EA Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt.....	201.90	
31 68 13 00-0168 EA Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt.....	403.80	
31 68 13 00-0169 EA Drill 2-1/4" Diameter Hole x 15' Long For 1-1/4" Diameter Rock Bolt.....	605.69	
31 68 13 00-0170 EA Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt.....	807.59	
31 68 13 00-0171 2" Diameter Bolt, 3-1/2" Hole (31 68 13 00-0155)		
31 68 13 00-0172 EA Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt.....	242.27	
31 68 13 00-0173 EA Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt.....	484.56	
31 68 13 00-0174 EA Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts.....	807.59	
31 68 13 00-0175 EA Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt.....	1,211.39	
31 68 13 00-0176 Tools (31 68 13)		
31 68 13 00-0177 Hydraulic Jacks, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0178 EA 1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke..... For >3 To 9, Deduct For >9, Deduct	401.12 -30.08 -62.17	
31 68 13 00-0179 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke For >3 To 9, Deduct For >9, Deduct	591.12 -44.33 -91.62	
31 68 13 00-0180 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke For >3 To 9, Deduct For >9, Deduct	991.68 -74.38 -153.71	
31 68 13 00-0181 EA 1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke For >3 To 9, Deduct For >9, Deduct	1,484.67 -111.35 -230.12	
31 68 13 00-0182 EA 1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke For >3 To 9, Deduct For >9, Deduct	2,219.30 -166.45 -343.99	
31 68 13 00-0183 Torque Wrenches And Ratchet Adapter, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0184 0-500 Foot Pounds (0-678J) (31 68 13 00-0183)		
31 68 13 00-0185 EA 1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental..... For >3 To 9, Deduct For >9, Deduct	140.36 -10.53 -21.76	
31 68 13 00-0186 EA Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds For >3 To 9, Deduct For >9, Deduct	87.98 -6.60 -13.64	
31 68 13 00-0187 EA Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental For >3 To 9, Deduct For >9, Deduct	228.52 -17.14 -35.42	
31 68 13 00-0188 0-600 Foot Pounds (0-814J) (31 68 13 00-0183)		
31 68 13 00-0189 EA 0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental..... For >3 To 9, Deduct For >9, Deduct	159.37 -11.95 -24.70	
31 68 13 00-0190 Up To 1,000 Foot Pounds (0-1356J) (31 68 13 00-0183)		
31 68 13 00-0191 EA 1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental..... For >3 To 9, Deduct For >9, Deduct	306.06 -22.95 -47.44	



		Earthwork	31
		Special Foundations And Load-bearing Elements	31 60
		Foundation Anchors	31 68

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0192 EA Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental 75.49 For >3 To 9, Deduct -5.66 For >9, Deduct -11.70		
31 68 13 00-0193 EA Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental 381.55 For >3 To 9, Deduct -28.62 For >9, Deduct -59.14		
31 68 13 00-0194 Torque Multiplier, 4:1 Multiplier (31 68 13 00-0176)		
31 68 13 00-0195 EA Torque Multiplier, 4 To 1 Ratio..... 391.99 For >3 To 9, Deduct -29.40 For >9, Deduct -60.76		
31 68 13 00-0196 Pneumatic Drive Torque Wrench (31 68 13 00-0176)		
31 68 13 00-0197 EA Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J) 838.77 For >3 To 9, Deduct -62.91 For >9, Deduct -130.01		
31 68 13 00-0198 Grouting (31 68 13)		
31 68 13 00-0199 Grouting With Pumps (31 68 13 00-0198) Note: Grout material and labor only.		
31 68 13 00-0200 GAL Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery..... 14.40 For >3 To 9, Deduct -0.53 For >9, Deduct -1.09		
31 68 13 00-0201 GAL Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery..... 23.80 For >3 To 9, Deduct -0.53 For >9, Deduct -1.09		
31 68 13 00-0202 GAL Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery..... 21.79 For >3 To 9, Deduct -0.53 For >9, Deduct -1.09		
31 68 13 00-0203 Grout Pumps, Monthly Rental (31 68 13 00-0198)		
31 68 13 00-0204 EA Hand Grout Pump, Monthly Rental 125.14 For >3 To 9, Deduct -9.39 For >9, Deduct -19.40		
31 68 13 00-0205 EA Air Powered Programmable Feed Grout Pump Monthly Rental..... 1,052.68 For >3 To 9, Deduct -78.95 For >9, Deduct -163.17		
31 68 13 00-0206 EA Air Powered, Piston Drive Grout Pump Monthly Rental..... 1,837.89 For >3 To 9, Deduct -137.84 For >9, Deduct -284.87		
31 68 13 00-0207 Rock Bolt Testing (31 68 13)		
31 68 13 00-0208 EA Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing..... 331.14 For >3 To 9, Deduct -24.84 For >9, Deduct -51.33		

END OF SECTION 31

31	31	Earthwork
	31 60	Special Foundations And Load-bearing Elements
	31 68	Foundation Anchors



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Exterior Improvements			32
Operation And Maintenance Of Exterior Improvements			32 01
Paving Cleaning			32 01 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 Exterior Improvements

32 01 Operation And Maintenance Of Exterior Improvements⁽³²⁾

32 01 11 Paving Cleaning^(32 01)

32 01 11 53 Paint Removal From Paving^(32 01 11)

32 01 11 53-0001 Remove Pavement Markings^(32 01 11 53)

Note: Includes vacuuming of removed striped area and containment of debris. Excludes disposal.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping	1.46
		For Up To 250, Add	0.73
		For >250 To 1,000, Add	0.37
		For >5,000 To 10,000, Deduct	-0.22
		For >10,000 To 25,000, Deduct	-0.37
		For >25,000 To 50,000, Deduct	-0.51
		For >50,000, Deduct	-0.58
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping	1.76
		For Up To 250, Add	0.88
		For >250 To 1,000, Add	0.44
		For >5,000 To 10,000, Deduct	-0.26
		For >10,000 To 25,000, Deduct	-0.44
		For >25,000 To 50,000, Deduct	-0.62
		For >50,000, Deduct	-0.70
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping	2.11
		For Up To 250, Add	1.06
		For >250 To 1,000, Add	0.53
		For >5,000 To 10,000, Deduct	-0.32
		For >10,000 To 25,000, Deduct	-0.53
		For >25,000 To 50,000, Deduct	-0.74
		For >50,000, Deduct	-0.84
32 01 11 53-0005	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping	2.52
		For Up To 250, Add	1.26
		For >250 To 1,000, Add	0.63
		For >5,000 To 10,000, Deduct	-0.38
		For >10,000 To 25,000, Deduct	-0.63
		For >25,000 To 50,000, Deduct	-0.88
		For >50,000, Deduct	-1.01
32 01 11 53-0006	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	2.52
		For Up To 250, Add	1.26
		For >250 To 1,000, Add	0.63
		For >5,000 To 10,000, Deduct	-0.38
		For >10,000 To 25,000, Deduct	-0.63
		For >25,000 To 50,000, Deduct	-0.88
		For >50,000, Deduct	-1.01

32 01 11 53-0007 Remove Pavement Markings (Monterey County)^(32 01 11 53)

32 01 11 53-0008	LF	Remove Thermoplastic Pavement Stripe	1.15
32 01 11 53-0009	SF	Remove Thermoplastic Pavement Marking	4.71

32 01 13 Flexible Paving Surface Treatment^(32 01)

32 01 13 62 Asphalt Surface Treatment^(32 01 13)

32 01 13 62-0001 Asphalt Seal Coating, For Roads And Parking Lot^(32 01 13 62)

Note: Includes sweeping and cleaning of area.

32 01 13 62-0002	EA	Asphalt Seal Coating Minimum	520.65
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
32 01 13 62-0003	SY	Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate	4.67
32 01 13 62-0004	SY	>500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate	4.16
32 01 13 62-0005	SY	>1,000 SY, Type O Asphalt Seal Coating, No Aggregate	3.66
32 01 13 62-0006	SY	Up To 500 SY, Type I Slurry Seal Asphalt Coating	5.53
		Note: 1/8" thick.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.57
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.79
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.94
32 01 13 62-0007	SY	>500 To 1,000 SY, Type I Slurry Seal Asphalt Coating	5.04
		Note: 1/8" thick.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.55
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.73
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.88
32 01 13 62-0008	SY	>1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating	4.44
		Note: 1/8" thick.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.53
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.67
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.82

32 Exterior Improvements**32 01 Operation And Maintenance Of Exterior Improvements****32 01 13 Flexible Paving Surface Treatment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 62-0009	SY	>5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating Note: 1/8" thick.	3.85	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.51	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.62	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.77	
32 01 13 62-0010	SY	>20,000 To 50,000 SY, Type I Slurry Seal Asphalt Coating Note: 1/8" thick.	3.16	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.49	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.56	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.71	
32 01 13 62-0011	SY	>50,000 SY, Type I Slurry Seal Asphalt Coating Note: 1/8" thick.	2.46	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.47	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.50	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.65	
32 01 13 62-0012	SY	Up To 500 SY, Type II Slurry Seal Asphalt Coating Note: 1/4" thick, 14 to 18 Lbs/SY.	8.70	
		For Latex Modified Asphalt Emulsion, Add	0.72	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.59	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.86	
		For Rubberized Polymer Modified Emulsion (RPME), Add	1.01	
32 01 13 62-0013	SY	>500 To 1,000 SY, Type II Slurry Seal Asphalt Coating Note: 1/4" thick, 14 to 18 Lbs/SY.	7.82	
		For Latex Modified Asphalt Emulsion, Add	0.65	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.57	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.79	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.94	
32 01 13 62-0014	SY	>1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating Note: 1/4" thick, 14 to 18 Lbs/SY.	7.17	
		For Latex Modified Asphalt Emulsion, Add	0.61	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.55	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.72	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.87	
32 01 13 62-0015	SY	>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating Note: 1/4" thick, 14 to 18 Lbs/SY.	6.49	
		For Latex Modified Asphalt Emulsion, Add	0.57	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.52	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.65	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.80	
32 01 13 62-0016	SY	>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating Note: 1/4" thick, 14 to 18 Lbs/SY.	5.41	
		For Latex Modified Asphalt Emulsion, Add	0.48	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.50	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.58	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.73	
32 01 13 62-0017	SY	>50,000 SY, Type II Slurry Seal Asphalt Coating Note: 1/4" thick, 14 to 18 Lbs/SY.	4.32	
		For Latex Modified Asphalt Emulsion, Add	0.39	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.48	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.52	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.67	
32 01 13 62-0018	SY	Up To 500 SY, Type III Slurry Seal Asphalt Coating Note: 3/8" thick, 25 to 30 Lbs/SY.	10.60	
		For Latex Modified Asphalt Emulsion, Add	0.89	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.61	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.92	
		For Rubberized Polymer Modified Emulsion (RPME), Add	1.07	
32 01 13 62-0019	SY	>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating Note: 3/8" thick, 25 to 30 Lbs/SY.	9.14	
		For Latex Modified Asphalt Emulsion, Add	0.77	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.59	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.85	
		For Rubberized Polymer Modified Emulsion (RPME), Add	1.00	
32 01 13 62-0020	SY	>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating Note: 3/8" thick, 25 to 30 Lbs/SY.	8.41	
		For Latex Modified Asphalt Emulsion, Add	0.72	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.56	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.77	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.92	
32 01 13 62-0021	SY	>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating Note: 3/8" thick, 25 to 30 Lbs/SY.	7.68	
		For Latex Modified Asphalt Emulsion, Add	0.67	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.54	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.70	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.85	
32 01 13 62-0022	SY	>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating Note: 3/8" thick, 25 to 30 Lbs/SY.	6.46	
		For Latex Modified Asphalt Emulsion, Add	0.57	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.52	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.63	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.78	
32 01 13 62-0023	SY	>50,000 SY, Type III Slurry Seal Asphalt Coating Note: 3/8" thick, 25 to 30 Lbs/SY.	5.24	
		For Latex Modified Asphalt Emulsion, Add	0.47	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.49	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.56	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 62-0024 Sand Sealer (32 01 13 62) Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.		
32 01 13 62-0025 SY Up To 200 SY Sand Seal.....	4.96	
32 01 13 62-0026 SY >200 To 500 SY Sand Seal	4.36	
32 01 13 62-0027 SY >500 To 1,100 SY Sand Seal	3.80	
32 01 13 62-0028 SY >1,100 To 4,400 SY Sand Seal	3.26	
32 01 13 62-0029 SY >4,400 To 7,800 SY Sand Seal	2.97	
32 01 13 62-0030 SY >7,800 To 16,700 SY Sand Seal	2.72	
32 01 13 62-0031 SY >16,700 SY Sand Seal	2.17	
32 01 16 Flexible Paving Rehabilitation (32 01)		
32 01 16 71 Cold Milling Asphalt Pavement (32 01 16)		
32 01 16 71-0001 Removal Of Asphalt Surface Course (32 01 16 71) Note: Includes direct loading into truck.		
32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas (32 01 16 71-0001) Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0048 for hauling.		
32 01 16 71-0003 SY Up To 3" Depth, Production Cold Milling Of Asphalt	3.46	
For Up To 2,500, Add	2.60	
For >2,500 To 5,000, Add	0.87	
For >10,000 To 25,000, Deduct	-0.35	
For >25,000, Deduct	-0.52	
32 01 16 71-0004 SY >3" To 6" Depth, Production Cold Milling Of Asphalt	4.61	
For Up To 2,500, Add	3.46	
For >2,500 To 5,000, Add	1.15	
For >10,000 To 25,000, Deduct	-0.46	
For >25,000, Deduct	-0.69	
32 01 16 71-0005 SY >6" To 12" Depth, Production Cold Milling Of Asphalt	6.13	
For Up To 2,500, Add	4.60	
For >2,500 To 5,000, Add	1.53	
For >10,000 To 25,000, Deduct	-0.61	
For >25,000, Deduct	-0.92	
32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001) Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0048 for hauling.		
32 01 16 71-0007 SY Up To 3" Depth, Limited Cold Milling Of Asphalt	21.86	
For >100 To 1,000, Deduct	-10.93	
For >1,000, Deduct	-16.40	
32 01 16 71-0008 SY >3" To 6" Depth, Limited Cold Milling Of Asphalt.....	28.95	
For >100 To 1,000, Deduct	-14.48	
For >1,000, Deduct	-21.71	
32 01 16 71-0009 SY >6" To 12" Depth, Limited Cold Milling Of Asphalt.....	38.55	
For >100 To 1,000, Deduct	-19.28	
For >1,000, Deduct	-28.91	
32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71) Note: For use as subbase material, includes spreading and rolling.		
32 01 16 71-0011 SY Grind, Leave In-Place As Subbase Course, 6-9" Depth	5.81	
32 01 16 73 In Place Cold Reused Asphalt Paving (32 01 16)		
32 01 16 73-0001 Cold-In-Place-Full Depth Reclamation With Foam Asphalt (FDR-FA) (32 01 16 73) Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0002 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.69	
For >12" To 18" Depth, Add	1.25	
32 01 16 73-0003 SF >30,000 To 42,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.44	
For >12" To 18" Depth, Add	1.17	
32 01 16 73-0004 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	2.88	
For >12" To 18" Depth, Add	1.00	
32 01 16 73-0005 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	2.46	
For >12" To 18" Depth, Add	0.88	
32 01 16 73-0006 SF >130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	2.19	
For >12" To 18" Depth, Add	0.80	
32 01 16 73-0007 SF >250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	2.02	
For >12" To 18" Depth, Add	0.75	
32 01 16 73-0008 SF >500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	1.91	
For >12" To 18" Depth, Add	0.71	

32 Exterior Improvements**32 01 Operation And Maintenance Of Exterior Improvements****32 01 16 Flexible Paving Rehabilitation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 73-0009 Cold-In-Place-Full Depth Reclamation Process With Cement (FDR-C) (32 01 16 73)		
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0010 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	4.02	
For >12" To 18" Depth, Add	1.41	
32 01 16 73-0011 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.21	
For >12" To 18" Depth, Add	1.17	
32 01 16 73-0012 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.79	
For >12" To 18" Depth, Add	1.04	
32 01 16 73-0013 SF >130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.52	
For >12" To 18" Depth, Add	0.96	
32 01 16 73-0014 SF >250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.35	
For >12" To 18" Depth, Add	0.91	
32 01 16 73-0015 SF >500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.24	
For >12" To 18" Depth, Add	0.88	
32 01 16 73-0016 Supplemental Aggregate (32 01 16 73)		
32 01 16 73-0017 TON Supplemental Aggregate	59.82	
32 01 16 73-0018 Cold-In-Place Recycling (CALTRAN) (32 01 16 73)		
32 01 16 73-0019 TON Sand Cover (CIPR).....	58.00	
For >500 To 1,000, Deduct	-1.45	
For >1,000 To 2,500, Deduct	-2.90	
For >2,500 To 5,000, Deduct	-4.06	
For >5,000, Deduct	-5.22	
32 01 16 73-0020 SY Cold In Place Recycling (CIPR).....	6.50	
For >10,000 To 25,000, Deduct	-0.65	
For >25,000, Deduct	-0.98	
32 01 16 73-0021 TON Cement (CIPR)	135.00	
For >500 To 1,000, Deduct	-3.38	
For >1,000 To 2,500, Deduct	-6.75	
For >2,500 To 5,000, Deduct	-9.45	
For >5,000, Deduct	-12.15	
32 01 16 73-0022 TON Emulsified Recycling Agent (CIPR).....	610.00	
For >500 To 1,000, Deduct	-15.25	
For >1,000 To 2,500, Deduct	-30.50	
For >2,500 To 5,000, Deduct	-42.70	
For >5,000, Deduct	-54.90	
32 01 16 73-0023 TON Asphaltic Emulsion (CIPR).....	610.00	
For >500 To 1,000, Deduct	-15.25	
For >1,000 To 2,500, Deduct	-30.50	
For >2,500 To 5,000, Deduct	-42.70	
For >5,000, Deduct	-54.90	
32 01 16 74 In Place Hot Reused Asphalt Paving (32 01 16 74)		
32 01 16 74-0001 Reclamation, Pulverize And Blending With Existing (32 01 16 74)		
Note: Includes direct loading into truck.		
32 01 16 74-0002 SY Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	11.78	
32 01 16 74-0003 SY Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.89	
32 01 16 74-0004 SY Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	2.94	
32 01 16 74-0005 SY Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	2.79	
32 01 16 74-0006 SY >2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.21	
32 01 16 74-0007 SY >2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	12.85	
32 01 16 74-0008 SY >2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	6.43	
32 01 16 74-0009 SY >2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.03	
32 01 16 74-0010 SY >3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	14.13	
32 01 16 74-0011 SY >3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	7.07	
32 01 16 74-0012 SY >3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.53	
32 01 16 74-0013 SY >3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.26	
32 01 16 74-0014 SY >4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	15.41	
32 01 16 74-0015 SY >4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	7.71	
32 01 16 74-0016 SY >4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.85	
32 01 16 74-0017 SY >4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.59	



Exterior Improvements			32
Operation And Maintenance Of Exterior Improvements			32 01
Flexible Paving Rehabilitation			32 01 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 74-0018	EA		Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew.....	1,324.82	
32 01 16 74-0019			Rejuvenate, Respread Asphalt Pavement (32 01 16 74) Note: Includes direct loading into truck.		
32 01 16 74-0020	SY		Remove, Rejuvenate, Respread Asphalt Grindings To 1/2" Deep.....	9.63	
32 01 16 74-0021	SY		Remove, Rejuvenate, Respread Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar	11.45	
32 01 16 74-0022	TON		Remove, Rejuvenate, Respread Asphalt Grindings.....	150.33	
32 01 17			Flexible Paving Repair (32 01) See CSI section 32 12 16 00-0000 for large area resurfacing.		
32 01 17 61			Sealing Cracks In Asphalt Paving (32 01 17) Note: Includes removing loose materials and cleaning.		
32 01 17 61-0001			Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair (32 01 17 61) Note: Includes sweeping and cleaning of area.		
32 01 17 61-0002	LF		Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.26	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.33	
			For 1" x 1/2" Fill, Add	0.62	
			For Backer Rod, Add	0.70	
32 01 17 61-0003	LF		>200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.03	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.28	
			For 1" x 1/2" Fill, Add	0.52	
			For Backer Rod, Add	0.64	
32 01 17 61-0004	LF		>500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.81	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.22	
			For 1" x 1/2" Fill, Add	0.41	
			For Backer Rod, Add	0.57	
32 01 17 61-0005	LF		>2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.70	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.19	
			For 1" x 1/2" Fill, Add	0.36	
			For Backer Rod, Add	0.54	
32 01 17 61-0006	LF		>5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.62	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.17	
			For 1" x 1/2" Fill, Add	0.32	
			For Backer Rod, Add	0.51	
32 01 17 61-0007	LF		>10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.57	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.16	
			For 1" x 1/2" Fill, Add	0.29	
			For Backer Rod, Add	0.49	
32 01 17 61-0008	LF		Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.27	
			For 3/8" x 1/4" Fill, Add	0.49	
			For 1/2" x 1/4" Fill, Add	0.90	
			For 1/2" x 1/2" Fill, Add	2.05	
32 01 17 61-0009	LF		>200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.83	
			For 3/8" x 1/4" Fill, Add	0.41	
			For 1/2" x 1/4" Fill, Add	0.74	
			For 1/2" x 1/2" Fill, Add	1.72	
32 01 17 61-0010	LF		>500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.41	
			For 3/8" x 1/4" Fill, Add	0.32	
			For 1/2" x 1/4" Fill, Add	0.59	
			For 1/2" x 1/2" Fill, Add	1.37	
32 01 17 61-0011	LF		>2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.24	
			For 3/8" x 1/4" Fill, Add	0.28	
			For 1/2" x 1/4" Fill, Add	0.52	
			For 1/2" x 1/2" Fill, Add	1.22	
32 01 17 61-0012	LF		>5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.12	
			For 3/8" x 1/4" Fill, Add	0.25	
			For 1/2" x 1/4" Fill, Add	0.46	
			For 1/2" x 1/2" Fill, Add	1.07	
32 01 17 61-0013	LF		>10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.04	
			For 3/8" x 1/4" Fill, Add	0.23	
			For 1/2" x 1/4" Fill, Add	0.43	
			For 1/2" x 1/2" Fill, Add	0.99	
32 01 17 61-0014	LF		For Routing And Cleaning Of Crack, Add Per 1/2" Depth.....	0.42	
32 01 17 61-0015	LNMI		Crack Seal/Filler Per Lane (10' to 12' Wide) Per Mile.....	2,885.25	
			Note: This work shall consist of removal of loose matter from cracks with brooms and compressed air and sealing the crack with rubber or other elastomeric modified asphalt, ASTM D 1190, D 3405 or AASHTO M-173. The sealant shall be applied from the bottom of the crack up and the sealant material shall be sprinkled with dry sand to prevent pick-up by traffic.		

32 01 17 63 Pavement Repair (32 01 17)

32 Exterior Improvements**32 01 Operation And Maintenance Of Exterior Improvements****32 01 17 Flexible Paving Repair**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 63-0001 Temporary Pot Hole Repair (32 01 17 63)		
Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.		
32 01 17 63-0002 EA Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons	1,387.06	
32 01 17 63-0003 TON Temporary Pot Hole Repairs With Cold Mix Modified	421.43	
Note: Use for each ton over 3 tons.		
32 01 17 63-0004 EA Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,318.48	
32 01 17 63-0005 TON Temporary Pot Hole Repairs With Cold Mix	398.57	
Note: Use for each ton over 3 tons.		
32 01 17 63-0006 EA Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,284.19	
32 01 17 63-0007 TON Temporary Pot Hole Repairs With Hot Mix Modified.....	387.14	
Note: Use for each ton over 3 tons.		
32 01 17 63-0008 EA Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,249.90	
32 01 17 63-0009 TON Temporary Pot Hole Repairs With Hot Mix	375.71	
Note: Use for each ton over 3 tons.		
32 01 17 63-0010 Permanent Pot Hole Repair (32 01 17 63)		
Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.		
32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,455.72	
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix	473.64	
Note: Use for each ton over 3 tons.		
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,421.43	
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified.....	462.21	
Note: Use for each ton over 3 tons.		
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,387.14	
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix	450.78	
Note: Use for each ton over 3 tons.		
32 01 17 63-0017 Asphalt Placement For Small Repairs (32 01 17 63)		
Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0046 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.		
32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons.....	1,905.42	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified.....	258.07	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons	1,836.84	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix	235.21	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons.....	1,802.55	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified	223.78	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons	1,768.26	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix.....	212.35	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0026 Grind Asphalt (32 01 17 63)		
32 01 17 63-0027 SY Grinding Asphalt To Level Bump Or Raised Area.....	16.93	
32 01 26 Rigid Paving Rehabilitation (32 01)		
32 01 26 71 Grooving Of Concrete Paving (32 01 26)		
32 01 26 71-0001 Roadway Grooving (32 01 26 71)		
32 01 26 71-0002 SY Pavement Grooving, Concrete, Longitudinal	0.99	
32 01 26 71-0003 SY Pavement Grooving, Concrete, Transverse.....	0.74	
32 01 26 71-0004 Rumble Strips (32 01 26 71)		
32 01 26 71-0005 LF Safe-Strips Shoulder Rumble Strips, Asphalt	0.30	
32 01 26 71-0006 LF Safe-Strips Shoulder Rumble Strips, Concrete.....	0.71	



Exterior Improvements			32
Operation And Maintenance Of Exterior Improvements			32 01
Rigid Paving Rehabilitation			32 01 26

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 26 71-0007			Boat Ramps Grooving ^(32 01 26 71)		
32 01 26 71-0008	SY		Concrete Grooving, Boat Ramps	1.59	
32 01 90			Operation And Maintenance Of Planting ^(32 01)		
Note: These tasks are to be used as requested by the owner to maintain existing conditions.					
32 01 90 13			Fertilizing ^(32 01 90)		
32 01 90 13-0001	MSF		Fertilizer - 2 LB Of Nitrogen/MSF (Granular)	10.35	
32 01 90 13-0002	MSF		Fertilizer - 2 LB Of Nitrogen/MSF (Liquid).....	8.25	
32 01 90 13-0003	MSF		Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular)	8.87	
32 01 90 13-0004	MSF		Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid).....	7.49	
32 01 90 19			Mowing ^(32 01 90)		
32 01 90 19-0001	ACR		Vegetation Cutting By Bush Hog	156.94	
Note: Includes normal debris removal, cutting, and trimming.					
For <1 Acre, Add				39.24	
32 01 90 19-0002	MSF		Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF.....	5.38	
For Light Brush Areas, Deduct				-0.81	
For Heavy Brush Areas, Add				1.08	
32 01 90 19-0003	MSF		Mowing Vegetation With Riding Mower, >45,000 SF.....	4.17	
For Light Brush Areas, Deduct				-0.63	
For Heavy Brush Areas, Add				0.83	
32 01 90 19-0004	MSF		Clear Vegetation With Weed Trimmer, Up To 1,000 SF	19.07	
For Light Brush Areas, Deduct				-2.86	
For Heavy Brush Areas, Add				3.81	
For Work On Slopes >2:1, Add				4.77	
For Clearing Light Brush, Add				2.86	
32 01 90 19-0005	MSF		Clear Vegetation With Weed Trimmer, >1,000 SF.....	16.01	
For Light Brush Areas, Deduct				-2.40	
For Heavy Brush Areas, Add				3.20	
For Work On Slopes >2:1, Add				4.00	
For Clearing Light Brush, Add				2.40	
32 01 90 19-0006	MSF		Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	15.87	
For Light Brush Areas, Deduct				-2.38	
For Heavy Brush Areas, Add				3.17	
32 01 90 23			Pruning ^(32 01 90)		
32 01 90 23-0001			Tree Pruning ^(32 01 90 23)		
Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture) 1. CROWN CLEANING - Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown. 2. CROWN THINNING - Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch. 3. CROWN RAISING - Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown. 4. CROWN REDUCTION - Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made. 5. CROWN RESTORATION - Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years. Includes loading onto truck or dumpster.					
32 01 90 23-0002	EA		Tree Pruning (Crown Cleaning), 1-1/2" Caliper	24.24	
For Crown Thinning, Tree Pruning, Add				5.45	
For Crown Raising, Pruning, Add				8.48	
For Crown Reduction, Tree Pruning, Add				10.91	
For Crown Restoration, Pruning, Add				16.16	
32 01 90 23-0003	EA		Tree Pruning (Crown Cleaning), 2" Caliper.....	27.70	
For Crown Thinning, Tree Pruning, Add				6.23	
For Crown Raising, Pruning, Add				9.70	
For Crown Reduction, Tree Pruning, Add				12.47	
For Crown Restoration, Pruning, Add				18.47	
32 01 90 23-0004	EA		Tree Pruning (Crown Cleaning), 2-1/2" Caliper	31.17	
For Crown Thinning, Tree Pruning, Add				7.01	
For Crown Raising, Pruning, Add				10.91	
For Crown Reduction, Tree Pruning, Add				14.03	
For Crown Restoration, Pruning, Add				20.78	

32 Exterior Improvements**32 01 Operation And Maintenance Of Exterior Improvements****32 01 90 Operation And Maintenance Of Planting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0005 EA Tree Pruning (Crown Cleaning), 3" Caliper.....	34.63	
For Crown Thinning, Tree Pruning, Add	7.79	
For Crown Raising, Pruning, Add	12.12	
For Crown Reduction, Tree Pruning, Add	15.58	
For Crown Restoration, Pruning, Add	23.09	
32 01 90 23-0006 EA Tree Pruning (Crown Cleaning), 4" Caliper, By Hand.....	52.63	
For Crown Thinning, Tree Pruning, Add	11.84	
For Crown Raising, Pruning, Add	18.42	
For Crown Reduction, Tree Pruning, Add	23.68	
For Crown Restoration, Pruning, Add	35.09	
32 01 90 23-0007 EA Tree Pruning (Crown Cleaning), 4" Caliper, Aerial Lift Equipment.....	86.48	
For Crown Thinning, Tree Pruning, Add	19.46	
For Crown Raising, Pruning, Add	30.27	
For Crown Reduction, Tree Pruning, Add	38.92	
For Crown Restoration, Pruning, Add	57.66	
32 01 90 23-0008 EA Tree Pruning (Crown Cleaning), 6" Caliper, By Hand.....	92.12	
For Crown Thinning, Tree Pruning, Add	20.73	
For Crown Raising, Pruning, Add	32.24	
For Crown Reduction, Tree Pruning, Add	41.45	
For Crown Restoration, Pruning, Add	61.42	
32 01 90 23-0009 EA Tree Pruning (Crown Cleaning), 6" Caliper, Aerial Lift Equipment.....	164.70	
For Crown Thinning, Tree Pruning, Add	37.06	
For Crown Raising, Pruning, Add	57.65	
For Crown Reduction, Tree Pruning, Add	74.12	
For Crown Restoration, Pruning, Add	109.81	
32 01 90 23-0010 EA Tree Pruning (Crown Cleaning), 9" Caliper, By Hand.....	147.52	
For Crown Thinning, Tree Pruning, Add	33.19	
For Crown Raising, Pruning, Add	51.63	
For Crown Reduction, Tree Pruning, Add	66.38	
For Crown Restoration, Pruning, Add	98.35	
32 01 90 23-0011 EA Tree Pruning (Crown Cleaning), 9" Caliper, Aerial Lift Equipment.....	263.47	
For Crown Thinning, Tree Pruning, Add	59.28	
For Crown Raising, Pruning, Add	92.21	
For Crown Reduction, Tree Pruning, Add	118.56	
For Crown Restoration, Pruning, Add	175.66	
32 01 90 23-0012 EA Tree Pruning (Crown Cleaning), 12" Caliper, By Hand.....	170.45	
For Crown Thinning, Tree Pruning, Add	38.35	
For Crown Raising, Pruning, Add	59.66	
For Crown Reduction, Tree Pruning, Add	76.70	
For Crown Restoration, Pruning, Add	113.64	
32 01 90 23-0013 EA Tree Pruning (Crown Cleaning), 12" Caliper, Aerial Lift Equipment.....	304.69	
For Crown Thinning, Tree Pruning, Add	68.56	
For Crown Raising, Pruning, Add	106.64	
For Crown Reduction, Tree Pruning, Add	137.11	
For Crown Restoration, Pruning, Add	203.14	
32 01 90 23-0014 EA Tree Pruning (Crown Cleaning), 18" Caliper By Hand.....	198.14	
For Crown Thinning, Tree Pruning, Add	44.58	
For Crown Raising, Pruning, Add	69.35	
For Crown Reduction, Tree Pruning, Add	89.16	
For Crown Restoration, Pruning, Add	132.10	
32 01 90 23-0015 EA Tree Pruning (Crown Cleaning), 18" Caliper By Hand, Aerial Lift Equipment.....	354.10	
For Crown Thinning, Tree Pruning, Add	79.67	
For Crown Raising, Pruning, Add	123.94	
For Crown Reduction, Tree Pruning, Add	159.35	
For Crown Restoration, Pruning, Add	236.08	
32 01 90 23-0016 EA Tree Pruning (Crown Cleaning), 24" Caliper, By Hand.....	241.20	
For Crown Thinning, Tree Pruning, Add	54.27	
For Crown Raising, Pruning, Add	84.42	
For Crown Reduction, Tree Pruning, Add	108.54	
For Crown Restoration, Pruning, Add	160.81	
32 01 90 23-0017 EA Tree Pruning (Crown Cleaning), 24" Caliper, Aerial Lift Equipment.....	428.29	
For Crown Thinning, Tree Pruning, Add	96.37	
For Crown Raising, Pruning, Add	149.90	
For Crown Reduction, Tree Pruning, Add	192.73	
For Crown Restoration, Pruning, Add	285.54	
32 01 90 23-0018 EA Tree Pruning (Crown Cleaning), 30" Caliper, By Hand.....	299.62	
For Crown Thinning, Tree Pruning, Add	67.41	
For Crown Raising, Pruning, Add	104.87	
For Crown Reduction, Tree Pruning, Add	134.83	
For Crown Restoration, Pruning, Add	199.76	
32 01 90 23-0019 EA Tree Pruning (Crown Cleaning), 30" Caliper, Aerial Lift Equipment.....	539.78	
For Crown Thinning, Tree Pruning, Add	121.45	
For Crown Raising, Pruning, Add	188.92	
For Crown Reduction, Tree Pruning, Add	242.90	
For Crown Restoration, Pruning, Add	359.87	
32 01 90 23-0020 EA Tree Pruning (Crown Cleaning), 36" Caliper, By Hand.....	410.37	
For Crown Thinning, Tree Pruning, Add	92.33	
For Crown Raising, Pruning, Add	143.63	
For Crown Reduction, Tree Pruning, Add	184.67	
For Crown Restoration, Pruning, Add	273.59	
32 01 90 23-0021 EA Tree Pruning (Crown Cleaning), 36" Caliper, Aerial Lift Equipment.....	731.57	
For Crown Thinning, Tree Pruning, Add	164.60	
For Crown Raising, Pruning, Add	256.05	
For Crown Reduction, Tree Pruning, Add	329.21	
For Crown Restoration, Pruning, Add	487.74	



Exterior Improvements			32
Operation And Maintenance Of Exterior Improvements			32 01
Operation And Maintenance Of Planting			32 01 90

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0022 EA Tree Pruning (Crown Cleaning), 48" Caliper, By Hand	651.05	
For Crown Thinning, Tree Pruning, Add	146.49	
For Crown Raising, Pruning, Add	227.87	
For Crown Reduction, Tree Pruning, Add	292.97	
For Crown Restoration, Pruning, Add	434.06	
32 01 90 23-0023 EA Tree Pruning (Crown Cleaning), 48" Caliper, Aerial Lift Equipment.....	1,176.48	
For Crown Thinning, Tree Pruning, Add	264.71	
For Crown Raising, Pruning, Add	411.77	
For Crown Reduction, Tree Pruning, Add	529.42	
For Crown Restoration, Pruning, Add	784.36	
32 01 90 23-0024 EA Trim Mexican Palm Tree.....	73.44	
32 01 90 23-0025 EA Trim Date Palm Tree	165.72	
32 01 90 23-0026 LF Skin Palm Tree	18.83	
32 01 90 23-0027 Shrub Pruning (32 01 90 23)		
32 01 90 23-0028 MSF Shrub Pruning, Prune, Shrub Bed	78.94	
32 01 90 23-0029 EA Shrub Pruning, Prune, Shrub Under 3' Height.....	2.77	
32 01 90 23-0030 EA Shrub Pruning, Prune, Shrub 4' Height.....	6.23	
32 01 90 23-0031 EA Shrub Pruning, Prune, Shrub Over 6'	11.08	
32 01 90 23-0032 EA Shrub Pruning, Prune Trees From Ground	27.70	
32 01 90 23-0033 EA Shrub Pruning, Prune Trees From Ground, High Work	69.27	
32 01 90 23-0034 Root Pruning (32 01 90 23)		
Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.		
32 01 90 23-0035 EA Root Pruning, One Side Of Up To 1-1/2" Caliper Tree	13.86	
32 01 90 23-0036 EA Root Pruning, One Side Of 2" Caliper Tree	17.32	
32 01 90 23-0037 EA Root Pruning, One Side Of 2-1/2" Caliper Tree	20.79	
32 01 90 23-0038 EA Root Pruning, One Side Of 3" Caliper Tree	27.70	
32 01 90 23-0039 EA Root Pruning, One Side Of 4" Caliper Tree	41.56	
32 01 90 23-0040 EA Root Pruning, One Side Of 6" Caliper Tree	51.95	
32 01 90 23-0041 EA Root Pruning, One Side Of 9" Caliper Tree	72.73	
32 01 90 23-0042 EA Root Pruning, One Side Of 12" Caliper Tree	83.12	
32 01 90 23-0043 EA Root Pruning, One Side Of 18" Caliper Tree	96.98	
32 01 90 23-0044 EA Root Pruning, One Side Of 24" Caliper Tree	121.22	
32 01 90 23-0045 EA Root Pruning, One Side Of 30" Caliper Tree	148.93	
32 01 90 23-0046 EA Root Pruning, One Side Of 36" Caliper Tree	173.17	
32 01 90 23-0047 EA Root Pruning, One Side Of 48" Caliper Tree	207.81	
32 01 90 26 Watering (32 01 90)		
Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.		
32 01 90 26-0001 Watering Lawns, Plants And Trees (32 01 90 26)		
Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.		
32 01 90 26-0002 MSF Watering Sod/Grass, Per Inch Of Water	31.01	
32 01 90 26-0003 CSF Watering Groundcover.....	5.04	
32 01 90 26-0004 CSF Watering Annuals And Perennials	9.26	
32 01 90 26-0005 EA Watering Trees, 1-1/2" To 5" Diameter By Hand	18.60	
32 01 90 26-0006 EA Watering Trees, 6" To 12" Diameter By Hand	24.42	
32 01 90 26-0007 EA Watering Trees, 13" To 18" Diameter By Hand	30.25	
32 01 90 26-0008 EA Watering Trees, >18" Diameter By Hand.....	37.23	
32 01 90 26-0009 EA Watering Shrub Or Bush By Hand.....	9.32	
32 01 90 36 Weed And Brush Control (32 01 90)		
32 01 90 36-0001 Herbicide, Push Or Hand Spreader Applied (32 01 90 36)		
32 01 90 36-0002 MSF Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF)	6.24	
For >45 To 90, Deduct	-0.33	
For >90 To 225, Deduct	-0.96	
For >225 To 870, Deduct	-1.58	
For >870, Deduct	-1.92	
32 01 90 36-0003 MSF Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF)	6.61	
For >45 To 90, Deduct	-0.37	
For >90 To 225, Deduct	-1.03	
For >225 To 870, Deduct	-1.69	
For >870, Deduct	-2.06	
32 01 90 36-0004 MSF Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF)	6.59	
Note: Includes pre and post emergent.		
For >45 To 90, Deduct	-0.37	
For >90 To 225, Deduct	-1.03	
For >225 To 870, Deduct	-1.69	
For >870, Deduct	-2.06	

32 Exterior Improvements**32 01 Operation And Maintenance Of Exterior Improvements****32 01 90 Operation And Maintenance Of Planting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 36-0005 MSF Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF).....	6.81	
Note: Includes pre and post emergents.		
For >45 To 90, Deduct	-0.39	
For >90 To 225, Deduct	-1.07	
For >225 To 870, Deduct	-1.75	
For >870, Deduct	-2.14	
32 01 90 39 Pesticides (32 01 90)		
32 01 90 39-0001 MSF Pesticide - Surface Eating.....	8.42	
32 01 90 39-0002 MSF Pesticide - Subsurface Eating.....	8.43	
32 01 90 39-0003 MSF Pesticide - Fungicide Application	8.77	
32 01 90 43 Weed And Cultivate (32 01 90)		
32 01 90 43-0001 MSF Weed Mulched Bed.....	33.94	
32 01 90 43-0002 MSF Weed Unmulched Bed.....	96.99	
32 01 90 43-0003 MSF Cultivate Bed.....	52.23	
32 01 90 46 Hedge Trimming (32 01 90)		
32 01 90 46-0001 LF Trim 0-5' High Hedge, 0-3' Wide	4.48	
32 01 90 46-0002 LF Trim 0-5' High Hedge, 4-6' Wide	6.72	
32 01 90 46-0003 LF Trim 5-10' High Hedge, 0-3' Wide	10.18	
32 01 90 46-0004 LF Trim 5-10' High Hedge, 4-6' Wide	10.37	
32 01 90 53 Plant Growth Regulator Application (32 01 90)		
32 01 90 53-0001 EA Plant Growth Regulator Application	4.17	
32 10 Bases, Ballasts, And Paving (32)		
32 11 Base Courses (32 10)		
32 11 16 Subbase Courses (32 11)		
32 11 16 16 Aggregate Subbase Courses (32 11 16)		
32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas (32 11 16 16)		
Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.		
32 11 16 16-0002 Base And Subbase Courses By The CY (32 11 16 16-0001)		
32 11 16 16-0003 CY Class II Graded Crushed Aggregate Roadway Base Course	89.78	
32 11 16 16-0004 CY Class III Graded Crushed Aggregate Roadway Base Course	85.53	
32 11 16 16-0005 CY Recycled Base Course	58.44	
32 11 16 16-0006 Class II Base Courses By The SY (32 11 16 16-0001)		
32 11 16 16-0007 SY 2" Class II Graded Crushed Aggregate Base Course	4.99	
For Up To 500, Add	1.24	
For >500 To 1,000, Add	0.50	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000, Deduct	-0.32	
32 11 16 16-0008 SY 4" Class II Crushed Aggregate Base Course	9.97	
For Up To 500, Add	2.47	
For >500 To 1,000, Add	1.00	
For >5,000 To 10,000, Deduct	-0.38	
For >10,000, Deduct	-0.65	
32 11 16 16-0009 SY 6" Class II Crushed Aggregate Base Course	14.96	
For Up To 500, Add	3.71	
For >500 To 1,000, Add	1.50	
For >5,000 To 10,000, Deduct	-0.57	
For >10,000, Deduct	-0.97	
32 11 16 16-0010 SY 9" Class II Crushed Aggregate Base Course	22.43	
For Up To 500, Add	5.56	
For >500 To 1,000, Add	2.24	
For >5,000 To 10,000, Deduct	-0.85	
For >10,000, Deduct	-1.46	
32 11 16 16-0011 SY 12" Class II Crushed Aggregate Base Course	29.91	
For Up To 500, Add	7.42	
For >500 To 1,000, Add	2.99	
For >5,000 To 10,000, Deduct	-1.14	
For >10,000, Deduct	-1.94	
32 11 23 Aggregate Base Courses (32 11)		
32 11 23 16 Aggregate Base Courses (32 11 23)		
32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) (32 11 23 16)		
Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.		



Exterior Improvements			32
Bases, Ballasts, And Paving			32 10
Base Courses			32 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 23 16-0002	SF		2" Crushed Aggregate Base Course For Sidewalks	0.64	
			For Up To 1,000, Add	0.17	
			For >1,000 To 2,500, Add	0.06	
32 11 23 16-0003	SF		3" Crushed Aggregate Base Course For Sidewalks	0.88	
			For Up To 1,000, Add	0.24	
			For >1,000 To 2,500, Add	0.09	
32 11 23 16-0004	SF		4" Crushed Aggregate Base Course For Sidewalks	1.14	
			For Up To 1,000, Add	0.31	
			For >1,000 To 2,500, Add	0.11	
32 11 23 16-0005	SF		5" Crushed Aggregate Base Course For Sidewalks	1.47	
			For Up To 1,000, Add	0.40	
			For >1,000 To 2,500, Add	0.15	
32 11 23 16-0006	SF		6" Crushed Aggregate Base Course For Sidewalks	1.81	
			For Up To 1,000, Add	0.49	
			For >1,000 To 2,500, Add	0.18	
32 11 23 16-0007	SF		7" Crushed Aggregate Base Course For Sidewalks	2.09	
			For Up To 1,000, Add	0.57	
			For >1,000 To 2,500, Add	0.21	
32 11 23 16-0008	SF		8" Crushed Aggregate Base Course For Sidewalks	2.36	
			For Up To 1,000, Add	0.64	
			For >1,000 To 2,500, Add	0.24	
32 11 26 Asphaltic Base Courses (32 11)					
32 11 26 19 Bituminous-Stabilized Base Courses (32 11 26)					
32 11 26 19-0001 Bituminous-Stabilized Base Courses (32 11 26 19)					
32 11 26 19-0002	CY		Bituminous Stabilized Base Course	93.93	
			Note: 3/4" ASTM C33.		
32 12 Flexible Paving (32 10)					
32 12 13 Preparatory Coats (32 12)					
32 12 13 13 Tack Coats (32 12 13)					
32 12 13 13-0001	TON		Tack Coat (Monterey County)	1,086.81	
32 12 13 19 Prime Coats (32 12 13)					
32 12 13 19-0001	SY		Surface Prime Coat, 0.26 Gallon/SY	1.19	
			For Up To 150, Add	0.26	
			For >150 To 300, Add	0.12	
			For >300 To 500, Add	0.06	
			For >3,500 To 5,000, Deduct	-0.03	
			For >5,000, Deduct	-0.08	
32 12 13 19-0002	SY		Surface Prime Coat, 0.28 Gallon/SY	1.25	
			For Up To 150, Add	0.28	
			For >150 To 300, Add	0.13	
			For >300 To 500, Add	0.06	
			For >3,500 To 5,000, Deduct	-0.03	
			For >5,000, Deduct	-0.09	
32 12 13 19-0003	SY		Surface Prime Coat, 0.30 Gallon/SY	1.32	
			For Up To 150, Add	0.30	
			For >150 To 300, Add	0.13	
			For >300 To 500, Add	0.07	
			For >3,500 To 5,000, Deduct	-0.03	
			For >5,000, Deduct	-0.09	
32 12 16 Asphalt Paving (32 12)					
32 12 16 13 Plant-Mix Asphalt Paving (32 12 16)					
Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0048 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.					
32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) (32 12 16 13)					
Note: Meets Caltrans requirements.					
32 12 16 13-0002	TON		Bituminous Hot Mix Intermediate Course 3,954 LB/CY	127.13	
			Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
			For PG64-10 Asphalt, Add	15.75	
			For >500 To 1,000, Deduct	-5.61	
			For >1,000 To 2,500, Deduct	-10.17	
			For >2,500 To 5,000, Deduct	-15.79	
			For >5,000, Deduct	-22.63	
32 12 16 13-0003	SY		1" Thick Binder Course	7.36	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	0.87	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000 To 50,000, Deduct	-0.58	
			For >50,000 To 100,000, Deduct	-0.90	
			For >100,000, Deduct	-1.30	

32 Exterior Improvements
32 10 Bases, Ballasts, And Paving
32 12 Flexible Paving



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0004 SY 1-1/2" Thick Binder Course.....	10.88	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	1.30	
For >7,000 To 14,000, Deduct	-0.48	
For >14,000 To 32,000, Deduct	-0.87	
For >32,000 To 64,000, Deduct	-1.34	
For >64,000, Deduct	-1.93	
32 12 16 13-0005 SY 2" Thick Binder Course.....	14.37	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	1.73	
For >5,000 To 10,000, Deduct	-0.63	
For >10,000 To 24,000, Deduct	-1.15	
For >24,000 To 48,000, Deduct	-1.78	
For >48,000, Deduct	-2.56	
32 12 16 13-0006 SY 2-1/2" Thick Binder Course.....	17.48	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	2.16	
For >4,000 To 8,000, Deduct	-0.78	
For >8,000 To 20,000, Deduct	-1.42	
For >20,000 To 40,000, Deduct	-2.20	
For >40,000, Deduct	-3.16	
32 12 16 13-0007 SY 3" Thick Binder Course.....	20.62	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	2.60	
For >3,000 To 6,000, Deduct	-0.93	
For >6,000 To 16,000, Deduct	-1.69	
For >16,000 To 32,000, Deduct	-2.62	
For >32,000, Deduct	-3.76	
32 12 16 13-0008 SY 3-1/2" Thick Binder Course.....	24.01	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	3.03	
For >2,800 To 5,600, Deduct	-1.09	
For >5,600 To 14,000, Deduct	-1.97	
For >14,000 To 28,000, Deduct	-3.06	
For >28,000, Deduct	-4.38	
32 12 16 13-0009 SY 4" Thick Binder Course.....	27.48	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	3.46	
For >2,500 To 5,000, Deduct	-1.24	
For >5,000 To 12,000, Deduct	-2.25	
For >12,000 To 24,000, Deduct	-3.49	
For >24,000, Deduct	-5.01	
32 12 16 13-0010 SY 5" Thick Binder Course.....	34.32	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	4.32	
For >2,000 To 3,900, Deduct	-1.55	
For >3,900 To 10,000, Deduct	-2.81	
For >10,000 To 20,000, Deduct	-4.37	
For >20,000, Deduct	-6.26	
32 12 16 13-0011 SY 6" Thick Binder Course.....	41.24	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	5.19	
For >1,600 To 3,200, Deduct	-1.86	
For >3,200 To 8,000, Deduct	-3.38	
For >8,000 To 16,000, Deduct	-5.24	
For >16,000, Deduct	-7.52	
32 12 16 13-0012 Surface Courses, Hot Mix Asphalt (HMA) (32 12 16 13)		
Note: Meets Caltrans requirements.		
32 12 16 13-0013 TON Bituminous Hot Mix Surface Course 3954 LB/CY.....	127.87	
Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
For PG64-10 Asphalt, Add	2.51	
For >500 To 1,000, Deduct	-5.46	
For >1,000 To 2,500, Deduct	-9.92	
For >2,500 To 5,000, Deduct	-15.39	
For >5,000, Deduct	-22.08	
32 12 16 13-0014 TON Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR).....	141.49	
Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
For Warm Mix Additive, Add	7.10	
32 12 16 13-0015 TON Asphalt Rubberized Hot Mix (ARHM) Surface Course.....	151.51	
Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
For Warm Mix Additive, Add	7.75	
32 12 16 13-0016 SY 1" Thick Surface Course.....	7.25	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.13	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000 To 50,000, Deduct	-0.55	
For >50,000 To 100,000, Deduct	-0.86	
For >100,000, Deduct	-1.23	



Exterior Improvements			32
Bases, Ballasts, And Paving			32 10
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0017	SY	1-1/2" Thick Surface Course..... Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add For >7,000 To 14,000, Deduct For >14,000 To 32,000, Deduct For >32,000 To 64,000, Deduct For >64,000, Deduct	10.67 0.20 -0.45 -0.82 -1.27 -1.83	
32 12 16 13-0018	SY	2" Thick Surface Course..... Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add For >5,000 To 10,000, Deduct For >10,000 To 24,000, Deduct For >24,000 To 48,000, Deduct For >48,000, Deduct	14.06 0.26 -0.60 -1.09 -1.68 -2.42	
32 12 16 13-0019	SY	2-1/2" Thick Surface Course..... Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add For >4,000 To 8,000, Deduct For >8,000 To 20,000, Deduct For >20,000 To 40,000, Deduct For >40,000, Deduct	16.96 0.33 -0.73 -1.33 -2.07 -2.97	
32 12 16 13-0020	SY	3" Thick Surface Course..... Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add For >3,000 To 6,000, Deduct For >6,000 To 16,000, Deduct For >16,000 To 32,000, Deduct For >32,000, Deduct	19.90 0.39 -0.87 -1.58 -2.45 -3.52	
32 12 16 13-0021	CSF	Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	55.26	
32 12 16 13-0022		Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)		
32 12 16 13-0023	TON	Hand Placed Hot Mixed Asphalt 3,954 LB/CY..... Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.	285.74	
32 12 16 19		Cold-Mix Asphalt Paving (32 12 16) Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0001		Cold Mix Asphalt (CMA) Pavement (32 12 16 19) Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0002	SY	Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course.....	11.23	
32 12 16 19-0003	SY	Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course	10.97	
32 12 16 19-0004	SY	Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course	18.32	
32 12 16 39		Fabrics (32 12 16) See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001	SY	3.6 Oz/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O)..... For Up To 50, Add For >50 To 150, Add For >150 To 250, Add For >250 To 500, Add	0.88 0.21 0.15 0.10 0.05	
32 12 16 39-0002	SY	4.1 Oz/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O)..... For Up To 50, Add For >50 To 150, Add For >150 To 250, Add For >250 To 500, Add	0.94 0.22 0.16 0.11 0.05	
32 12 16 43		Waterproofing Membranes (32 12 16)		
32 12 16 43-0001		Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002	SY	Up To 500 SY, Preformed Rubberized Asphalt Membrane	29.90	
32 12 16 43-0003	SY	>500 To 1,000 SY, Preformed Rubberized Asphalt Membrane.....	22.50	
32 12 16 43-0004	SY	>1,000 SY, Preformed Rubberized Asphalt Membrane.....	14.14	
32 12 33		Flexible Paving Surface Treatments (32 12)		
32 12 33 00-0001		Bituminous Surface Treatment For Roadways (32 12 33) Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		
32 12 33 00-0002	SY	Single Course Bituminous Treatment, Prepare And Clean Surface Roadway.....	2.69	
32 12 33 00-0003	SY	Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	4.81	
32 12 33 00-0004		Bituminous Surface Treatment For Trails (32 12 33) Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005	SY	Bituminous Surface Treatment, For Trails	1.88	
32 12 36		Seal Coats (32 12) See CSI section 32 01 13 62-0000 for slurry seal.		

32 Exterior Improvements
32 10 Bases, Ballasts, And Paving
32 12 Flexible Paving



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 00-0001		Thermoplastic Coal-Tar Asphalt Seal (32 12 36) Note: Includes sweeping and cleaning of area.		
32 12 36 00-0002	SY	Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	8.69	
32 12 36 00-0003	SY	>500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	8.10	
32 12 36 00-0004	SY	>1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	7.11	
32 12 36 00-0005	SY	>5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	6.32	
32 12 36 00-0006	SY	>20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	5.33	
32 12 36 00-0007	SY	>50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	4.34	
32 12 36 00-0008	SY	Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	10.38	
32 12 36 00-0009	SY	>500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	9.73	
32 12 36 00-0010	SY	>1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	8.57	
32 12 36 00-0011	SY	>5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	7.66	
32 12 36 00-0012	SY	>20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	6.49	
32 12 36 00-0013	SY	>50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	5.33	
32 12 36 00-0014		Water Based Emulsion Sealer (32 12 36) Note: Includes sweeping and cleaning of area.		
32 12 36 00-0015	SY	Up To 500 SY Water Based Emulsion Sealer, For Asphalt, First Coat	3.60	
		<i>For Additional Coats, Add</i>	1.99	
32 12 36 00-0016	SY	>500 To 1,000 SY Water Based Emulsion Sealer, For Asphalt, First Coat	2.89	
		<i>For Additional Coats, Add</i>	1.59	
32 12 36 00-0017	SY	>1,000 SY Water Based Emulsion Sealer, For Asphalt, First Coat	2.19	
		<i>For Additional Coats, Add</i>	1.20	
32 12 36 00-0018		Asphalt Emulsion Sealers (Chip Seal) (32 12 36)		
32 12 36 00-0019		Fine Screenings Seal Coat (32 12 36 00-0018) Note: 12 to 20 # Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 00-0020	SY	Up To 200 SY Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	3.23	
32 12 36 00-0021	SY	>200 To 500 SY Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	2.56	
32 12 36 00-0022	SY	>500 To 1,100 SY Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	2.33	
32 12 36 00-0023	SY	>1,100 To 4,400 SY Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	1.91	
32 12 36 00-0024	SY	>4,400 To 7,800 SY Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	1.78	
32 12 36 00-0025	SY	>7,800 To 16,700 SY Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	1.68	
32 12 36 00-0026	SY	>16,700 SY Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	1.58	
32 12 36 00-0027		Medium Fine Screenings Seal Coat (32 12 36 00-0018) Note: 16 to 25 # Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 00-0028	SY	Up To 200 SY Medium Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	3.66	
32 12 36 00-0029	SY	>200 To 500 SY Medium Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	2.93	
32 12 36 00-0030	SY	>500 To 1,100 SY Medium Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	2.69	
32 12 36 00-0031	SY	>1,100 To 4,400 SY Medium Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	2.26	
32 12 36 00-0032	SY	>4,400 To 7,800 SY Medium Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	2.11	
32 12 36 00-0033	SY	>7,800 To 16,700 SY Medium Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	2.01	
32 12 36 00-0034	SY	>16,700 SY Medium Fine Screenings Asphalt Emulsion Seal Coat Spray Applied	1.90	
32 12 36 00-0035		Medium Screenings Seal Coat (32 12 36 00-0018) Note: 20 to 30 # Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 00-0036	SY	Up To 200 SY Medium Screenings Asphalt Emulsion Seal Coat Spray Applied	3.80	
32 12 36 00-0037	SY	>200 To 500 SY Medium Screenings Asphalt Emulsion Seal Coat Spray Applied	3.06	
32 12 36 00-0038	SY	>500 To 1,100 SY Medium Screenings Asphalt Emulsion Seal Coat Spray Applied	2.81	
32 12 36 00-0039	SY	>1,100 To 4,400 SY Medium Screenings Asphalt Emulsion Seal Coat Spray Applied	2.38	
32 12 36 00-0040	SY	>4,400 To 7,800 SY Medium Screenings Asphalt Emulsion Seal Coat Spray Applied	2.22	
32 12 36 00-0041	SY	>7,800 To 16,700 SY Medium Screenings Asphalt Emulsion Seal Coat Spray Applied	2.12	
32 12 36 00-0042	SY	>16,700 SY Medium Screenings Asphalt Emulsion Seal Coat Spray Applied	2.00	
32 12 36 00-0043		Course Screenings Seal Coat (32 12 36 00-0018) Note: 23 to 30 # Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 00-0044	SY	Up To 200 SY Course Screenings Asphalt Emulsion Seal Coat Spray Applied	3.89	
32 12 36 00-0045	SY	>200 To 500 SY Course Screenings Asphalt Emulsion Seal Coat Spray Applied	3.13	
32 12 36 00-0046	SY	>500 To 1,100 SY Course Screenings Asphalt Emulsion Seal Coat Spray Applied	2.88	
32 12 36 00-0047	SY	>1,100 To 4,400 SY Course Screenings Asphalt Emulsion Seal Coat Spray Applied	2.44	
32 12 36 00-0048	SY	>4,400 To 7,800 SY Course Screenings Asphalt Emulsion Seal Coat Spray Applied	2.28	
32 12 36 00-0049	SY	>7,800 To 16,700 SY Course Screenings Asphalt Emulsion Seal Coat Spray Applied	2.17	
32 12 36 00-0050	SY	>16,700 SY Course Screenings Asphalt Emulsion Seal Coat Spray Applied	2.05	
32 12 36 00-0051		Double Screenings Seal Coat (32 12 36 00-0018) Note: First coat 23 to 30 # Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 # Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 00-0052	SY	Up To 200 SY Double Screenings Asphalt Emulsion Seal Coat Spray Applied	6.02	
32 12 36 00-0053	SY	>200 To 500 SY Double Screenings Asphalt Emulsion Seal Coat Spray Applied	4.89	
32 12 36 00-0054	SY	>500 To 1,100 SY Double Screenings Asphalt Emulsion Seal Coat Spray Applied	4.50	
32 12 36 00-0055	SY	>1,100 To 4,400 SY Double Screenings Asphalt Emulsion Seal Coat Spray Applied	3.85	
32 12 36 00-0056	SY	>4,400 To 7,800 SY Double Screenings Asphalt Emulsion Seal Coat Spray Applied	3.63	
32 12 36 00-0057	SY	>7,800 To 16,700 SY Double Screenings Asphalt Emulsion Seal Coat Spray Applied	3.46	



Exterior Improvements			32
Bases, Ballasts, And Paving			32 10
Flexible Paving			32 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 00-0058 SY >16,700 SY Double Screenings Asphalt Emulsion Seal Coat Spray Applied	3.28	
32 12 36 00-0059 Seal Coat With Sand And Latex (32 12 36)		
32 12 36 00-0060 SY Up To 250 SY Seal Coat With Sand And Latex Added (One Coat).....	4.66	
32 12 36 00-0061 SY >250 To 500 SY Seal Coat With Sand And Latex Added (One Coat).....	3.85	
32 12 36 00-0062 SY >500 To 1,000 SY Seal Coat With Sand And Latex Added (One Coat).....	3.05	
32 12 36 00-0063 SY >1,000 To 2,500 SF Seal Coat With Sand And Latex Added (One Coat).....	2.26	
32 12 36 00-0064 SY >2,500 To 5,000 SY Seal Coat With Sand And Latex Added (One Coat).....	1.77	
32 12 36 00-0065 SY >5,000 To 10,000 SY Seal Coat With Sand And Latex Added (One Coat).....	1.61	
32 12 36 00-0066 SY >10,000 To 20,000 SY Seal Coat With Sand And Latex Added (One Coat).....	1.45	
32 12 36 00-0067 SY >20,000 To 40,000 SY Seal Coat With Sand And Latex Added (One Coat).....	1.29	
32 12 36 00-0068 SY >40,000 SY Seal Coat With Sand And Latex Added (One Coat).....	1.13	
32 12 36 00-0069 Asphalt Rubber Aggregate Membrane (32 12 36)		
Note: Includes cleaning and preparing existing surface, spreading asphalt rubber and cover aggregate, rolling and sweeping.		
32 12 36 00-0070 SY Up To 200 SY 3/8" Asphalt Rubber Aggregate Membrane	6.63	
32 12 36 00-0071 SY >200 To 500 SY 3/8" Asphalt Rubber Aggregate Membrane	5.42	
32 12 36 00-0072 SY >500 To 1,100 SY 3/8" Asphalt Rubber Aggregate Membrane	5.01	
32 12 36 00-0073 SY >1,100 To 4,400 SY 3/8" Asphalt Rubber Aggregate Membrane	4.34	
32 12 36 00-0074 SY >4,400 To 7,800 SY 3/8" Asphalt Rubber Aggregate Membrane	4.10	
32 12 36 00-0075 SY >7,800 To 16,700 SY 3/8" Asphalt Rubber Aggregate Membrane	3.91	
32 12 36 00-0076 SY >16,700 SY 3/8" Asphalt Rubber Aggregate Membrane	3.71	
32 12 36 00-0077 Asphalt Emulsion, Fog Seal (Monterey County) (32 12 36)		
32 12 36 00-0078 TON Asphaltic Emulsion, Fog Seal (Monterey County).....	1,022.52	
32 12 43 Porous Flexible Paving (32 12)		
32 12 43 00-0001 Flexible Recycled Plastic Porous Grid (32 12 43)		
Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.		
32 12 43 00-0002 SY 1" Thick, Recycled Plastic Flexible Pavement With Sand Fill	24.81	
Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.		
For Up To 100, Add	8.87	
For >100 To 500, Add	2.31	
For >1,000 To 5,000, Deduct	-1.07	
For >5,000, Deduct	-2.02	
32 12 73 Asphalt Paving Joint Sealants (32 12)		
32 12 73 00-0001 Expansion Joint In Sidewalk (32 12 73)		
32 12 73 00-0002 LF For Hot Asphalt Poured Over Expansion Joint In Sidewalk	3.73	
32 13 Rigid Paving (32 10)		
32 13 13 Concrete Paving (32 13)		
Note: The following section includes spreading and placing delivered Portland cement concrete mix.		
32 13 13 33 Plain Concrete Paving (32 13 13)		
32 13 13 33-0001 Concrete Paving Assemblies (32 13 13 33)		
Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 00 00-0001 for color additive.		
32 13 13 33-0002 4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)		
32 13 13 33-0003 SY 4" 4,500 PSI Concrete Paving Assembly	51.05	
For 2,500 PSI Concrete, Deduct	-3.28	
For 3,000 PSI Concrete, Deduct	-2.14	
For 3,500 PSI Concrete, Deduct	-1.71	
For 4,000 PSI Concrete, Deduct	-0.74	
For 5,000 PSI Concrete, Add	0.46	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	3.71	
For <12' Wide Pass, Add	8.48	
For 24' Or Greater Wide Pass, Deduct	-10.21	
For Air Entrainment, Add	1.43	
For Slipforming, Deduct	-5.11	
For Up To 100, Add	19.21	
For >100 To 250, Add	11.03	
For >250 To 500, Add	5.52	
For >1,000 To 2,000, Deduct	-1.43	
For >2,000 To 5,000, Deduct	-2.70	
For >5,000 To 10,000, Deduct	-3.98	
For >10,000 To 20,000, Deduct	-5.26	
For >20,000, Deduct	-6.53	

32 Exterior Improvements
32 10 Bases, Ballasts, And Paving
32 13 Rigid Paving



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0004	SY	5"	4,500 PSI Concrete Paving Assembly.....	60.83	
			For 2,500 PSI Concrete, Deduct	-4.12	
			For 3,000 PSI Concrete, Deduct	-2.69	
			For 3,500 PSI Concrete, Deduct	-2.15	
			For 4,000 PSI Concrete, Deduct	-0.93	
			For 5,000 PSI Concrete, Add	0.57	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.66	
			For <12' Wide Pass, Add	9.83	
			For 24' Or Greater Wide Pass, Deduct	-12.17	
			For Air Entrainment, Add	1.79	
			For Slipforming, Deduct	-6.08	
			For Up To 100, Add	22.17	
			For >100 To 250, Add	12.87	
			For >250 To 500, Add	6.44	
			For >1,000 To 2,000, Deduct	-1.79	
			For >2,000 To 5,000, Deduct	-3.31	
			For >5,000 To 10,000, Deduct	-4.83	
			For >10,000 To 20,000, Deduct	-6.35	
			For >20,000, Deduct	-7.87	
32 13 13 33-0005	SY	6"	4,500 PSI Concrete Paving Assembly.....	64.87	
			For 2,500 PSI Concrete, Deduct	-4.35	
			For 3,000 PSI Concrete, Deduct	-2.83	
			For 3,500 PSI Concrete, Deduct	-2.27	
			For 4,000 PSI Concrete, Deduct	-0.98	
			For 5,000 PSI Concrete, Add	0.60	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.91	
			For <12' Wide Pass, Add	10.55	
			For 24' Or Greater Wide Pass, Deduct	-12.97	
			For Air Entrainment, Add	1.89	
			For Slipforming, Deduct	-6.49	
			For Up To 100, Add	23.81	
			For >100 To 250, Add	13.79	
			For >250 To 500, Add	6.90	
			For >1,000 To 2,000, Deduct	-1.89	
			For >2,000 To 5,000, Deduct	-3.51	
			For >5,000 To 10,000, Deduct	-5.13	
			For >10,000 To 20,000, Deduct	-6.75	
			For >20,000, Deduct	-8.38	
32 13 13 33-0006	SY	7"	4,500 PSI Concrete Paving Assembly.....	77.65	
			For 2,500 PSI Concrete, Deduct	-5.48	
			For 3,000 PSI Concrete, Deduct	-3.57	
			For 3,500 PSI Concrete, Deduct	-2.86	
			For 4,000 PSI Concrete, Deduct	-1.24	
			For 5,000 PSI Concrete, Add	0.76	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.20	
			For <12' Wide Pass, Add	12.26	
			For 24' Or Greater Wide Pass, Deduct	-15.53	
			For Air Entrainment, Add	2.38	
			For Slipforming, Deduct	-7.77	
			For Up To 100, Add	27.53	
			For >100 To 250, Add	16.15	
			For >250 To 500, Add	8.07	
			For >1,000 To 2,000, Deduct	-2.38	
			For >2,000 To 5,000, Deduct	-4.32	
			For >5,000 To 10,000, Deduct	-6.27	
			For >10,000 To 20,000, Deduct	-8.21	
			For >20,000, Deduct	-10.15	
32 13 13 33-0007	SY	8"	4,500 PSI Concrete Paving Assembly.....	88.30	
			For 2,500 PSI Concrete, Deduct	-6.02	
			For 3,000 PSI Concrete, Deduct	-3.92	
			For 3,500 PSI Concrete, Deduct	-3.14	
			For 4,000 PSI Concrete, Deduct	-1.36	
			For 5,000 PSI Concrete, Add	0.84	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.80	
			For <12' Wide Pass, Add	14.23	
			For 24' Or Greater Wide Pass, Deduct	-17.66	
			For Air Entrainment, Add	2.62	
			For Slipforming, Deduct	-8.83	
			For Up To 100, Add	32.06	
			For >100 To 250, Add	18.64	
			For >250 To 500, Add	9.32	
			For >1,000 To 2,000, Deduct	-2.62	
			For >2,000 To 5,000, Deduct	-4.82	
			For >5,000 To 10,000, Deduct	-7.03	
			For >10,000 To 20,000, Deduct	-9.24	
			For >20,000, Deduct	-11.45	



Exterior Improvements		32
Bases, Ballasts, And Paving		32 10
Rigid Paving		32 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0008	SY	9"	4,500 PSI Concrete Paving Assembly.....	100.19	
			For 2,500 PSI Concrete, Deduct	-6.95	
			For 3,000 PSI Concrete, Deduct	-4.53	
			For 3,500 PSI Concrete, Deduct	-3.63	
			For 4,000 PSI Concrete, Deduct	-1.57	
			For 5,000 PSI Concrete, Add	0.97	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	7.86	
			For <12' Wide Pass, Add	15.98	
			For 24' Or Greater Wide Pass, Deduct	-20.04	
			For Air Entrainment, Add	3.02	
			For Slipforming, Deduct	-10.02	
			For Up To 100, Add	35.93	
			For >100 To 250, Add	20.99	
			For >250 To 500, Add	10.49	
			For >1,000 To 2,000, Deduct	-3.02	
			For >2,000 To 5,000, Deduct	-5.53	
			For >5,000 To 10,000, Deduct	-8.03	
			For >10,000 To 20,000, Deduct	-10.54	
			For >20,000, Deduct	-13.04	
32 13 13 33-0009	SY	10"	4,500 PSI Concrete Paving Assembly.....	111.49	
			For 2,500 PSI Concrete, Deduct	-7.65	
			For 3,000 PSI Concrete, Deduct	-4.99	
			For 3,500 PSI Concrete, Deduct	-3.99	
			For 4,000 PSI Concrete, Deduct	-1.73	
			For 5,000 PSI Concrete, Add	1.06	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	8.65	
			For <12' Wide Pass, Add	17.90	
			For 24' Or Greater Wide Pass, Deduct	-22.30	
			For Air Entrainment, Add	3.33	
			For Slipforming, Deduct	-11.15	
			For Up To 100, Add	40.29	
			For >100 To 250, Add	23.47	
			For >250 To 500, Add	11.74	
			For >1,000 To 2,000, Deduct	-3.33	
			For >2,000 To 5,000, Deduct	-6.11	
			For >5,000 To 10,000, Deduct	-8.90	
			For >10,000 To 20,000, Deduct	-11.69	
			For >20,000, Deduct	-14.47	
32 13 13 33-0010	SY	12"	4,500 PSI Concrete Paving Assembly.....	132.73	
			For 2,500 PSI Concrete, Deduct	-9.06	
			For 3,000 PSI Concrete, Deduct	-5.91	
			For 3,500 PSI Concrete, Deduct	-4.72	
			For 4,000 PSI Concrete, Deduct	-2.05	
			For 5,000 PSI Concrete, Add	1.26	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	10.24	
			For <12' Wide Pass, Add	21.37	
			For 24' Or Greater Wide Pass, Deduct	-26.55	
			For Air Entrainment, Add	3.94	
			For Slipforming, Deduct	-13.27	
			For Up To 100, Add	48.14	
			For >100 To 250, Add	28.01	
			For >250 To 500, Add	14.00	
			For >1,000 To 2,000, Deduct	-3.94	
			For >2,000 To 5,000, Deduct	-7.26	
			For >5,000 To 10,000, Deduct	-10.57	
			For >10,000 To 20,000, Deduct	-13.89	
			For >20,000, Deduct	-17.21	
32 13 13 33-0011	SY	15"	4,500 PSI Concrete Paving Assembly.....	168.35	
			For 2,500 PSI Concrete, Deduct	-11.12	
			For 3,000 PSI Concrete, Deduct	-7.25	
			For 3,500 PSI Concrete, Deduct	-5.80	
			For 4,000 PSI Concrete, Deduct	-2.51	
			For 5,000 PSI Concrete, Add	1.55	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	12.57	
			For <12' Wide Pass, Add	27.58	
			For 24' Or Greater Wide Pass, Deduct	-33.67	
			For Air Entrainment, Add	4.84	
			For Slipforming, Deduct	-16.84	
			For Up To 100, Add	62.33	
			For >100 To 250, Add	36.00	
			For >250 To 500, Add	18.00	
			For >1,000 To 2,000, Deduct	-4.84	
			For >2,000 To 5,000, Deduct	-9.04	
			For >5,000 To 10,000, Deduct	-13.25	
			For >10,000 To 20,000, Deduct	-17.46	
			For >20,000, Deduct	-21.67	

32 13 16 Decorative Concrete Paving (32 13)**32 13 16 13 Patterned Concrete Paving (32 13 16)**

See CSI section 32 17 26 00-0000 for tactile warning surfaces.

32 13 16 13-0001 SF For Patterned (Tactile) Finish In Concrete Sidewalk..... 3.88

32 13 43 Pervious Concrete Paving (32 13)

32 Exterior Improvements
32 10 Bases, Ballasts, And Paving
32 13 Rigid Paving



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 43 00-0001		Pervious Concrete Assembly (32 13 43) Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.		
32 13 43 00-0002	SF	6" Thick Pervious Concrete Paving..... Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	12.06	
		For >5,000 To 30,000, Deduct	-1.33	
		For >30,000 To 100,000, Deduct	-2.47	
		For >100,000, Deduct	-3.07	
32 13 43 00-0003	SF	9" Thick Pervious Concrete Paving..... Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	15.08	
		For >5,000 To 30,000, Deduct	-1.62	
		For >30,000 To 100,000, Deduct	-2.96	
		For >100,000, Deduct	-3.68	
32 13 73		Concrete Paving Joint Sealants (32 13)		
32 13 73 13		Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)		
32 13 73 13-0001		Concrete Pavement Joint And Crack Repair (32 13 73 13) Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 13-0002	LF	Pavement Sealing, Roads Resealing Joints In Concrete Pavements For Roads	7.21	
32 13 73 16		Field-Molded Concrete Paving Joint Sealants (32 13 73)		
32 13 73 16-0001		Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16) Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 16-0002	LF	Joint Sealing, Concrete Pavement Preformed Elastomeric	10.96	
32 13 73 19		Compression Concrete Paving Joint Sealants (32 13 73)		
32 13 73 19-0001		Silicone Joint Sealant For Concrete Pavement (32 13 73 19) Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where sawcutting is not required. Excludes saw cutting.		
32 13 73 19-0002	LF	1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	8.13	1.95
32 13 73 19-0003	LF	3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	8.45	1.99
32 13 73 19-0004	LF	1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	8.80	2.03
32 13 73 19-0005	LF	3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	9.83	2.07
32 13 73 19-0006	LF	1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	11.11	2.11
32 13 73 19-0007	LF	1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	12.79	2.16
32 13 73 19-0008	LF	2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	15.25	2.20
32 14		Unit Paving (32 10)		
32 14 09		Paver Restraints (32 14)		
32 14 09 00-0001		Paver Restraints (32 14 09) Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.		
32 14 09 00-0002	LF	Up To 2" Height, Vinyl Paver Restraint	3.18	0.86
		For >1,000 To 2,000, Deduct	-0.40	
		For >2,000 To 4,000, Deduct	-0.58	
		For >4,000, Deduct	-0.74	
32 14 09 00-0003	LF	Up To 2" Height, Galvanized Steel Paver Restraint.....	3.42	0.86
		For >500 To 1,000, Deduct	-0.10	
		For >1,000 To 2,000, Deduct	-0.21	
		For >2,000, Deduct	-0.31	
32 14 09 00-0004	LF	Up To 1" Height, Aluminum Paver Restraint.....	3.30	0.86
		For >250 To 500, Deduct	-0.19	
		For >500 To 1,000, Deduct	-0.29	
		For >1,000 To 1,500, Deduct	-0.48	
32 14 09 00-0005	LF	>1" To 2" Height, Aluminum Paver Restraint	3.84	0.86
		For >250 To 500, Deduct	-0.25	
		For >500 To 1,000, Deduct	-0.37	
		For >1,000 To 1,500, Deduct	-0.62	
32 14 09 00-0006	LF	>2" To 3" Height, Aluminum Paver Restraint	4.88	0.86
		For >250 To 500, Deduct	-0.35	
		For >500 To 1,000, Deduct	-0.53	
		For >1,000 To 1,500, Deduct	-0.88	
32 14 09 00-0007	LF	>3" To 4" Height, Aluminum Paver Restraint	5.68	0.86
		For >250 To 500, Deduct	-0.43	
		For >500 To 1,000, Deduct	-0.65	
		For >1,000 To 1,500, Deduct	-1.08	
32 14 11		Bedding For Unit Paving (32 14)		



Exterior Improvements		32
Bases, Ballasts, And Paving		32 10
Unit Paving		32 14

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 11 00-0001 Bedding For Brick, Precast Concrete Paver And Stone Sidewalk (32 14 11) Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.		
32 14 11 00-0002 SF 1" To 2" Sand Bedding, Screeded For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	0.95 0.41 0.12 -0.07 -0.11	
32 14 11 00-0003 SF 1" To 2" Stone Dust Bedding, Screeded For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	1.18 0.47 0.13 -0.07 -0.12	
32 14 11 00-0004 SF 3" Stone Dust Bedding, Screeded For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	1.54 0.59 0.16 -0.08 -0.14	
32 14 11 00-0005 SF 4" Stone Dust Bedding, Screeded For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	1.96 0.73 0.20 -0.10 -0.18	
32 14 11 00-0006 SF 1" Mortar Bedding For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	2.82 1.26 0.36 -0.22 -0.35	
32 14 11 00-0007 SF 2" Mortar Bedding For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	4.16 1.78 0.50 -0.30 -0.48	
32 14 11 00-0008 SF Thin-Set Latex Portland Cement Mortar For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	1.44 0.66 0.19 -0.12 -0.18	
32 14 13 Precast Concrete Unit Paving (32 14)		
32 14 13 16 Precast Concrete Unit Paving Slabs (32 14 13)		
32 14 13 16-0001 Precast Concrete Paver Sidewalk (32 14 13 16) Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 13 16-0002 SF 2-3/8" Thick, Up To 32 SI Precast Concrete Paver Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers. For 2-3/4" Concrete Paver, Add For 3-1/8" Concrete Paver, Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	10.38 1.00 1.63 0.80 3.98 1.07 -0.55 -0.98	2.76
32 14 13 16-0003 SF 2-3/8" Thick, >32 to 64 SI Precast Concrete Paver Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers. For 2-3/4" Concrete Paver, Add For 3-1/8" Concrete Paver, Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	9.88 0.98 1.59 0.75 3.73 1.00 -0.50 -0.90	2.52
32 14 13 16-0004 SF 2-3/8" Thick, >64 to 144 SI Precast Concrete Paver Note: Includes 6" x 12", 12" x 12" and other similar size pavers. For 2-3/4" Concrete Paver, Add For 3-1/8" Concrete Paver, Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	9.43 0.96 1.55 0.70 3.51 0.93 -0.46 -0.83	2.01
32 14 13 16-0005 SF 2-3/8" Thick, >144 SI Precast Concrete Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. For 2-3/4" Concrete Paver, Add For 3-1/8" Concrete Paver, Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	9.01 0.93 1.52 0.66 3.30 0.87 -0.42 -0.77	2.08

32 Exterior Improvements
32 10 Bases, Ballasts, And Paving
32 14 Unit Paving



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 13 16-0006	SF	2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups.	9.64	2.40
		For 2-3/4" Concrete Paver, Add	0.97	
		For 3-1/8" Concrete Paver, Add	1.57	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.72	
		For Up To 100, Add	3.61	
		For >100 To 500, Add	0.96	
		For >1,000 To 5,000, Deduct	-0.48	
		For >5,000, Deduct	-0.87	
32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)				
32 14 13 19-0001		Turf Block (32 14 13 19) Note: Grass grid, open-cell unit paver, geoblock.		
32 14 13 19-0002	SF	3-1/8" Thick, Precast Concrete Turf Block For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	8.45 3.31 0.90 -0.48 -0.83	2.40
32 14 16 Brick Unit Paving (32 14)				
32 14 16 00-0001		Brick Paver Sidewalk (32 14 16) Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 16 00-0002	SF	4" x 8" x 2-1/4" Brick Paver, Laid Flat For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	10.34 -1.96 4.37 0.79 3.97 1.07 -0.55 -0.98	2.76
32 14 16 00-0003	SF	4" x 8" x 2-1/4" Brick, Laid On Edge..... For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.85 -3.30 7.60 1.06 5.29 1.37 -0.63 -1.20	3.15
32 14 33 Plastic Paving (32 14)				
32 14 33 00-0001		Turf Block Plastic Paving (32 14 33)		
32 14 33 00-0002	SF	4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block..... For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	12.05 4.21 1.08 -0.48 -0.94	2.40
32 14 40 Stone Paving (32 14)				
32 14 40 00-0001		Slate Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002	SF	1" Thick, Up to 54 SI Slate Paver..... Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	16.05 1.03 -8.48 -5.96 5.16 1.26 -0.46 -1.03	2.30
32 14 40 00-0003	SF	1" Thick, >54 to 108 SI Slate Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.63 0.99 -8.38 -5.90 4.95 1.20 -0.42 -0.97	2.08
32 14 40 00-0004	SF	1" Thick, >108 to 216 SI Slate Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.90 0.92 -8.19 -5.79 4.59 1.09 -0.34 -0.86	1.72



Exterior Improvements			32
Bases, Ballasts, And Paving			32 10
Unit Paving			32 14

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0005	SF	1" Thick, >216 SI Slate Paver.....	14.59	1.57	
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.			
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.89		
		For 1/4" Thick Paver, Deduct	-8.12		
		For 1/2" Thick Paver, Deduct	-5.74		
		For Up To 100, Add	4.43		
		For >100 To 500, Add	1.04		
		For >1,000 To 5,000, Deduct	-0.31		
		For >5,000, Deduct	-0.81		
32 14 40 00-0006	SF	1" Thick, Slate Paver, Combinations And Patterns.....	15.23	1.89	
		Note: Patterns made by combining pavers from two or more size groups.			
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.95		
		For 1/4" Thick Paver, Deduct	-8.28		
		For 1/2" Thick Paver, Deduct	-5.84		
		For Up To 100, Add	4.75		
		For >100 To 500, Add	1.14		
		For >1,000 To 5,000, Deduct	-0.38		
		For >5,000, Deduct	-0.91		
32 14 40 00-0007		Granite Paver Sidewalk ^(32 14 40)			
		Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.			
32 14 40 00-0008	SF	1" Thick, Up to 54 SI Granite Paver.....	20.58	2.30	
		Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.			
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.26		
		For 2" Granite Paver, Add	1.03		
		For 3" Granite Paver, Add	2.06		
		For 4" Granite Paver, Add	2.29		
		For Up To 100, Add	6.29		
		For >100 To 500, Add	1.49		
		For >1,000 To 5,000, Deduct	-0.46		
		For >5,000, Deduct	-1.17		
32 14 40 00-0009	SF	1" Thick, >54 to 108 SI Granite Paver.....	20.16	2.08	
		Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.			
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.22		
		For 2" Granite Paver, Add	1.01		
		For 3" Granite Paver, Add	2.02		
		For 4" Granite Paver, Add	2.22		
		For Up To 100, Add	6.08		
		For >100 To 500, Add	1.43		
		For >1,000 To 5,000, Deduct	-0.42		
		For >5,000, Deduct	-1.11		
32 14 40 00-0010	SF	1" Thick, >108 to 216 SI Granite Paver.....	19.43	1.72	
		Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.			
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.14		
		For 2" Granite Paver, Add	0.97		
		For 3" Granite Paver, Add	1.94		
		For 4" Granite Paver, Add	2.12		
		For Up To 100, Add	5.72		
		For >100 To 500, Add	1.32		
		For >1,000 To 5,000, Deduct	-0.34		
		For >5,000, Deduct	-1.00		
32 14 40 00-0011	SF	1" Thick, >216 SI Granite Paver.....	19.12	1.57	
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers.			
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.11		
		For 2" Granite Paver, Add	0.96		
		For 3" Granite Paver, Add	1.91		
		For 4" Granite Paver, Add	2.07		
		For Up To 100, Add	5.56		
		For >100 To 500, Add	1.27		
		For >1,000 To 5,000, Deduct	-0.31		
		For >5,000, Deduct	-0.95		
32 14 40 00-0012	SF	1" Thick, Granite Paver, Combinations And Patterns.....	19.76	1.89	
		Note: Patterns made by combining pavers from two or more size groups.			
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.18		
		For 2" Granite Paver, Add	0.99		
		For 3" Granite Paver, Add	1.98		
		For 4" Granite Paver, Add	2.16		
		For Up To 100, Add	5.88		
		For >100 To 500, Add	1.37		
		For >1,000 To 5,000, Deduct	-0.38		
		For >5,000, Deduct	-1.05		
32 14 40 00-0013		Cobble Stone ^(32 14 40)			
		Note: Includes 6" thick 2,500 psi concrete mix with various colors of rounded 4" to 8" diameter cobble stones, half embedded in concrete.			
32 14 40 00-0014	SF	4" to 8" diameter cobble stones, various colors, Up To 500 SF.....	22.59		
		Note: Half embedded in minimum 6" thick 2500 psi concrete mix.			
32 14 40 00-0015	SF	4" to 8" diameter cobble stones, various colors, > 500 SF.....	17.67		
		Note: Half embedded in minimum 6" thick 2500 psi concrete mix.			

32 15 Aggregate Surfacing^(32 10)

32 Exterior Improvements
32 10 Bases, Ballasts, And Paving
32 15 Aggregate Surfacing



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 15 40 Crushed Stone Surfacing (32 15)

Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.

32 15 40 00-0001 Gravel Surfacing And Spreading (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0002 CY Gravel Surfacing And Spreading.....85.02

32 15 40 00-0003 Limestone Screenings (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.

32 15 40 00-0004 CY Limestone Screenings For Trail 53.79

32 15 40 00-0005 Decomposed Granite (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0006 SY 3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway 11.93

Note: Placed in 2 lifts.

For Additional 2" Lift

5.97

For >45 To 180, Deduct

-0.84

For >180 To 450, Deduct

-1.08

For >450, Deduct

-1.32

32 16 Curbs, Gutters, Sidewalks, And Driveways (32 10)

32 16 13 Curbs And Gutters (32 16)

Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0046 for additional saw cuts within the 100'.

32 16 13 13 Cast-In-Place Concrete Curbs And Gutters (32 16 13)

Note: Includes concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0001 Cast In Place Concrete Curbs (32 16 13 13)

Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0002	LF	"B3" Cast In Place Concrete Curb	9.49	8.45
32 16 13 13-0003	LF	"B3" Cast In Place Concrete Curb - Radius	10.82	9.72
32 16 13 13-0004	LF	"B1" Cast In Place Concrete Curb	21.80	8.45
32 16 13 13-0005	LF	"B1" Cast In Place Concrete Curb - Radius	24.95	9.30
32 16 13 13-0006	LF	"A1-150" Cast In Place Concrete Curb	21.23	8.45
32 16 13 13-0007	LF	"A1-150" Cast In Place Concrete Curb - Radius	24.30	9.30
32 16 13 13-0008	LF	"A1-200" Cast In Place Concrete Curb	22.05	8.45
32 16 13 13-0009	LF	"A1-200" Cast In Place Concrete Curb - Radius	25.23	9.30
32 16 13 13-0010	LF	6" x 12" Cast In Place Concrete Curb (Type A1-6)	16.51	8.45
		For Up To 20, Add	10.06	
		For >20 To 50, Add	5.71	
		For >50 To 100, Add	2.18	
		For >500 To 1,000, Deduct	-2.18	
		For >1,000, Deduct	-3.68	
32 16 13 13-0011	LF	6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6)	18.92	9.72
		For Up To 20, Add	11.60	
		For >20 To 50, Add	6.58	
		For >50 To 100, Add	2.51	
		For >500 To 1,000, Deduct	-2.51	
		For >1,000, Deduct	-4.24	
32 16 13 13-0012	LF	6" x 14" Cast In Place Concrete Curb (Type A1-8)	18.18	8.45
		For Up To 20, Add	11.03	
		For >20 To 50, Add	6.25	
		For >50 To 100, Add	2.39	
		For >500 To 1,000, Deduct	-2.39	
		For >1,000, Deduct	-4.04	
32 16 13 13-0013	LF	6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8)	20.84	9.72
		For Up To 20, Add	12.72	
		For >20 To 50, Add	7.21	
		For >50 To 100, Add	2.75	
		For >500 To 1,000, Deduct	-2.75	
		For >1,000, Deduct	-4.65	
32 16 13 13-0014	LF	6" x 16" Cast In Place Concrete Curb	20.02	8.45
		For Up To 20, Add	12.03	
		For >20 To 50, Add	6.82	
		For >50 To 100, Add	2.61	
		For >500 To 1,000, Deduct	-2.61	
		For >1,000, Deduct	-4.41	
32 16 13 13-0015	LF	6" x 16" Cast In Place Concrete Curb - Radius	22.92	12.67
		For Up To 20, Add	13.87	
		For >20 To 50, Add	7.87	
		For >50 To 100, Add	3.00	
		For >500 To 1,000, Deduct	-3.00	
		For >1,000, Deduct	-5.08	
32 16 13 13-0016	LF	6" x 18" Cast In Place Concrete Curb	21.52	8.45
		For Up To 20, Add	12.84	
		For >20 To 50, Add	7.27	
		For >50 To 100, Add	2.78	
		For >500 To 1,000, Deduct	-2.78	
		For >1,000, Deduct	-4.71	



Exterior Improvements			32
Bases, Ballasts, And Paving			32 10
Curbs, Gutters, Sidewalks, And Driveways			32 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0017	LF		6" x 18" Cast In Place Concrete Curb - Radius.....	24.31	9.72
			For Up To 20, Add	14.57	
			For >20 To 50, Add	8.26	
			For >50 To 100, Add	3.16	
			For >500 To 1,000, Deduct	-3.16	
			For >1,000, Deduct	-5.34	
32 16 13 13-0018	LF		6" x 24" Cast In Place Concrete Curb.....	24.73	9.30
			For Up To 20, Add	14.34	
			For >20 To 50, Add	8.11	
			For >50 To 100, Add	3.11	
			For >500 To 1,000, Deduct	-3.11	
			For >1,000, Deduct	-5.29	
32 16 13 13-0019	LF		6" x 24" Cast In Place Concrete Curb - Radius.....	27.66	10.56
			For Up To 20, Add	16.09	
			For >20 To 50, Add	9.10	
			For >50 To 100, Add	3.49	
			For >500 To 1,000, Deduct	-3.49	
			For >1,000, Deduct	-5.93	
32 16 13 13-0020	LF		12" x 24" Cast In Place Concrete Curb.....	32.81	10.56
			For Up To 20, Add	17.12	
			For >20 To 50, Add	9.62	
			For >50 To 100, Add	3.75	
			For >500 To 1,000, Deduct	-3.75	
			For >1,000, Deduct	-6.45	
32 16 13 13-0021	LF		12" x 24" Cast In Place Concrete Curb - Radius.....	36.51	11.83
			For Up To 20, Add	19.13	
			For >20 To 50, Add	10.75	
			For >50 To 100, Add	4.19	
			For >500 To 1,000, Deduct	-4.19	
			For >1,000, Deduct	-7.20	
32 16 13 13-0022	EA		Additional Finish For Handicap Drop Section In Curb.....	63.35	
32 16 13 13-0023			Cast In Place Concrete Curb And Gutter (32 16 13 13)		
			Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0024	LF		"A2-6 Modified" Concrete Curb And Gutter - Straight.....	23.89	10.08
			For Up To 20, Add	16.10	
			For >20 To 50, Add	8.93	
			For >50 To 100, Add	3.58	
			For >500 To 1,000, Deduct	-2.96	
			For >1,000, Deduct	-5.04	
			For Rolled Curb And Gutter	1.42	
32 16 13 13-0025	LF		"A2-6 Modified" Concrete Curb And Gutter - Radius.....	26.49	10.08
			For Up To 20, Add	17.83	
			For >20 To 50, Add	9.88	
			For >50 To 100, Add	3.97	
			For >500 To 1,000, Deduct	-3.26	
			For >1,000, Deduct	-5.55	
			For Rolled Curb And Gutter	1.54	
32 16 13 13-0026	LF		"A2-6" Concrete Curb And Gutter - Straight.....	31.53	13.44
			For Up To 20, Add	21.61	
			For >20 To 50, Add	12.15	
			For >50 To 100, Add	4.73	
			For >500 To 1,000, Deduct	-4.27	
			For >1,000, Deduct	-7.19	
			For Rolled Curb And Gutter	2.43	
32 16 13 13-0027	LF		"A2-6" Concrete Curb And Gutter - Radius.....	40.90	15.12
			For Up To 20, Add	27.56	
			For >20 To 50, Add	15.29	
			For >50 To 100, Add	6.14	
			For >500 To 1,000, Deduct	-5.07	
			For >1,000, Deduct	-8.63	
			For Rolled Curb And Gutter	2.44	
32 16 13 13-0028	LF		"B-2" Concrete Curb And Gutter - Straight.....	39.10	14.70
			For Up To 20, Add	26.40	
			For >20 To 50, Add	14.67	
			For >50 To 100, Add	5.87	
			For >500 To 1,000, Deduct	-4.90	
			For >1,000, Deduct	-8.32	
			For Rolled Curb And Gutter	2.41	
32 16 13 13-0029	LF		"B-2" Concrete Curb And Gutter - Radius.....	40.62	14.70
			For Up To 20, Add	27.31	
			For >20 To 50, Add	15.13	
			For >50 To 100, Add	6.09	
			For >500 To 1,000, Deduct	-4.97	
			For >1,000, Deduct	-8.47	
			For Rolled Curb And Gutter	2.32	
32 16 13 13-0030	LF		6" x 12" Concrete Gutter With 6" Curb And Face - Straight.....	22.52	10.08
			For Up To 20, Add	15.28	
			For >20 To 50, Add	8.52	
			For >50 To 100, Add	3.38	
			For >500 To 1,000, Deduct	-2.89	
			For >1,000, Deduct	-4.90	
			For Rolled Curb And Gutter	1.50	

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 16 Curbs, Gutters, Sidewalks, And Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0031 LF 6" x 12" Concrete Gutter With 6" Curb And Face - Radius	24.58	13.44
For Up To 20, Add	16.68	
For >20 To 50, Add	9.31	
For >50 To 100, Add	3.69	
For >500 To 1,000, Deduct	-3.16	
For >1,000, Deduct	-5.36	
For Rolled Curb And Gutter	1.64	
32 16 13 13-0032 LF 6" x 18" Concrete Gutter With 6" Curb And Face - Straight	28.71	11.17
For Up To 20, Add	19.45	
For >20 To 50, Add	10.84	
For >50 To 100, Add	4.31	
For >500 To 1,000, Deduct	-3.66	
For >1,000, Deduct	-6.21	
For Rolled Curb And Gutter	1.87	
32 16 13 13-0033 LF 6" x 18" Concrete Gutter With 6" Curb And Face - Radius	31.74	12.44
For Up To 20, Add	21.52	
For >20 To 50, Add	12.00	
For >50 To 100, Add	4.76	
For >500 To 1,000, Deduct	-4.07	
For >1,000, Deduct	-6.89	
For Rolled Curb And Gutter	2.10	
32 16 13 13-0034 LF 6" x 24" Concrete Gutter With 6" Curb And Face - Straight (Type A3-6)	34.91	13.44
For Up To 20, Add	23.63	
For >20 To 50, Add	13.16	
For >50 To 100, Add	5.24	
For >500 To 1,000, Deduct	-4.43	
For >1,000, Deduct	-7.52	
For Rolled Curb And Gutter	2.25	
32 16 13 13-0035 LF 6" x 24" Concrete Gutter With 6" Curb And Face - Radius (Type A3-6)	38.90	15.12
For Up To 20, Add	26.36	
For >20 To 50, Add	14.69	
For >50 To 100, Add	5.84	
For >500 To 1,000, Deduct	-4.97	
For >1,000, Deduct	-8.43	
For Rolled Curb And Gutter	2.55	
32 16 13 13-0036 LF 6" x 30" Concrete Gutter With 6" Curb And Face - Straight	41.53	15.96
For Up To 20, Add	28.11	
For >20 To 50, Add	15.65	
For >50 To 100, Add	6.23	
For >500 To 1,000, Deduct	-5.27	
For >1,000, Deduct	-8.94	
For Rolled Curb And Gutter	2.66	
32 16 13 13-0037 LF 6" x 30" Concrete Gutter With 6" Curb And Face - Radius	45.65	17.65
For Up To 20, Add	30.92	
For >20 To 50, Add	17.22	
For >50 To 100, Add	6.85	
For >500 To 1,000, Deduct	-5.81	
For >1,000, Deduct	-9.86	
For Rolled Curb And Gutter	2.96	
32 16 13 13-0038 LF 6" x 36" Concrete Gutter With 6" Curb And Face - Straight	48.15	18.49
For Up To 20, Add	32.59	
For >20 To 50, Add	18.14	
For >50 To 100, Add	7.22	
For >500 To 1,000, Deduct	-6.10	
For >1,000, Deduct	-10.36	
For Rolled Curb And Gutter	3.08	
32 16 13 13-0039 LF 6" x 36" Concrete Gutter With 6" Curb And Face - Radius	52.39	20.17
For Up To 20, Add	35.47	
For >20 To 50, Add	19.75	
For >50 To 100, Add	7.86	
For >500 To 1,000, Deduct	-6.65	
For >1,000, Deduct	-11.29	
For Rolled Curb And Gutter	3.37	
32 16 13 13-0040 LF 6" x 42" Concrete Gutter With 6" Curb And Face - Straight	54.77	21.01
For Up To 20, Add	37.06	
For >20 To 50, Add	20.63	
For >50 To 100, Add	8.22	
For >500 To 1,000, Deduct	-6.94	
For >1,000, Deduct	-11.78	
For Rolled Curb And Gutter	3.50	
32 16 13 13-0041 LF 6" x 42" Concrete Gutter With 6" Curb And Face - Radius	60.82	23.53
For Up To 20, Add	41.20	
For >20 To 50, Add	22.95	
For >50 To 100, Add	9.12	
For >500 To 1,000, Deduct	-7.75	
For >1,000, Deduct	-13.14	
For Rolled Curb And Gutter	3.95	

32 16 13 14 Machine Formed, Slip Form Curbs (32 16 13)

Note: Includes delivered concrete, steel, expansion joints and finish.

32 16 13 14-0001 Curbs, Machine Formed, Slip Form (32 16 13 14)

Note: Includes delivered concrete, steel, expansion joints and finish.

32 16 13 14-0002 JOB Machine Formed Concrete Curb Minimum Set-Up Charge 1,145.87

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



Exterior Improvements			32
Bases, Ballasts, And Paving			32 10
Curbs, Gutters, Sidewalks, And Driveways			32 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 14-0003	LF		6" x 12" Straight Concrete Curb, Machine Formed	11.50	
32 16 13 14-0004	LF		6" x 12" Curved Concrete Curb, Machine Formed	15.23	
32 16 13 14-0005	LF		6" x 18" Straight Concrete Curb, Machine Formed	15.26	
32 16 13 14-0006	LF		6" x 18" Curved Concrete Curb, Machine Formed	19.50	
32 16 13 16 Steel Faced Curbs (32 16 13)					
Note: Fabrication includes handicap and other curb access cuts.					
32 16 13 16-0001 Sidewalk/Curb Facing (32 16 13 16)					
Note: Fabrication includes handicap and other curb access cuts.					
32 16 13 16-0002	LF		3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	12.71	4.05
			For Curved Section, Add	2.78	
32 16 13 16-0003	LF		4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	13.99	4.61
			For Curved Section, Add	3.13	
32 16 13 16-0004	LF		6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	18.85	5.15
			For Curved Section, Add	3.83	
32 16 13 16-0005	LF		8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	23.13	5.80
			For Curved Section, Add	4.47	
32 16 13 16-0006	LF		10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	28.29	6.35
			For Curved Section, Add	5.20	
32 16 13 16-0007	LF		12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	37.01	8.10
			For Curved Section, Add	6.73	
32 16 13 16-0008	LF		13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	42.66	10.49
			For Curved Section, Add	8.18	
32 16 13 16-0009	EA		Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section.....	133.33	
32 16 13 16-0010	EA		Pedestrian/Handicap Ramp, Complete.....	90.76	
32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13)					
32 16 13 19-0001 Valley Gutter, Cast In Place (32 16 13 19)					
Note: Includes concrete, forms, rebar, expansion joints, finish and curing.					
32 16 13 19-0002	LF		2' Wide Valley Gutter, 6" Thick	23.36	
			For Up To 20, Add	11.36	
			For >20 To 50, Add	6.35	
			For >50 To 100, Add	2.51	
			For >500 To 1,000, Deduct	-2.51	
			For >1,000, Deduct	-4.34	
32 16 13 19-0003	LF		2-1/2' Wide Valley Gutter, 6" Thick	28.60	
			For Up To 20, Add	13.78	
			For >20 To 50, Add	7.69	
			For >50 To 100, Add	3.04	
			For >500 To 1,000, Deduct	-3.04	
			For >1,000, Deduct	-5.28	
32 16 13 19-0004	LF		3' Wide Valley Gutter, 6" Thick	33.76	
			For Up To 20, Add	16.14	
			For >20 To 50, Add	9.01	
			For >50 To 100, Add	3.57	
			For >500 To 1,000, Deduct	-3.57	
			For >1,000, Deduct	-6.19	
32 16 13 19-0005	LF		3-1/2' Wide Valley Gutter, 6" Thick	38.90	
			For Up To 20, Add	18.49	
			For >20 To 50, Add	10.32	
			For >50 To 100, Add	4.09	
			For >500 To 1,000, Deduct	-4.09	
			For >1,000, Deduct	-7.10	
32 16 13 19-0006	LF		4' Wide Valley Gutter, 6" Thick	44.06	
			For Up To 20, Add	20.85	
			For >20 To 50, Add	11.63	
			For >50 To 100, Add	4.61	
			For >500 To 1,000, Deduct	-4.61	
			For >1,000, Deduct	-8.02	
32 16 13 19-0007	LF		5' Wide Valley Gutter, 6" Thick	52.07	
			For Up To 20, Add	23.96	
			For >20 To 50, Add	13.33	
			For >50 To 100, Add	5.31	
			For >500 To 1,000, Deduct	-5.31	
			For >1,000, Deduct	-9.27	
32 16 13 19-0008	LF		6' Wide Valley Gutter, 6" Thick	59.71	
			For Up To 20, Add	26.81	
			For >20 To 50, Add	14.89	
			For >50 To 100, Add	5.96	
			For >500 To 1,000, Deduct	-5.96	
			For >1,000, Deduct	-10.43	
32 16 13 19-0009	SF		>6' Wide Valley Gutter, 6" Thick	9.95	
			For Up To 100, Add	4.47	
			For >100 To 250, Add	2.48	
			For >250 To 500, Add	0.99	
			For >2,500 To 5,000, Deduct	-0.99	
			For >5,000, Deduct	-1.74	

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 16 Curbs, Gutters, Sidewalks, And Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0010	LF		2' Wide Valley Gutter, 7" Thick.....	25.60	
			For Up To 20, Add	12.17	
			For >20 To 50, Add	6.79	
			For >50 To 100, Add	2.69	
			For >500 To 1,000, Deduct	-2.69	
			For >1,000, Deduct	-4.68	
32 16 13 19-0011	LF		2-1/2' Wide Valley Gutter, 7" Thick	31.57	
			For Up To 20, Add	14.91	
			For >20 To 50, Add	8.32	
			For >50 To 100, Add	3.30	
			For >500 To 1,000, Deduct	-3.30	
			For >1,000, Deduct	-5.74	
32 16 13 19-0012	LF		3' Wide Valley Gutter, 7" Thick.....	37.05	
			For Up To 20, Add	17.32	
			For >20 To 50, Add	9.65	
			For >50 To 100, Add	3.83	
			For >500 To 1,000, Deduct	-3.83	
			For >1,000, Deduct	-6.68	
32 16 13 19-0013	LF		3-1/2' Wide Valley Gutter, 7" Thick	42.73	
			For Up To 20, Add	19.85	
			For >20 To 50, Add	11.06	
			For >50 To 100, Add	4.40	
			For >500 To 1,000, Deduct	-4.40	
			For >1,000, Deduct	-7.66	
32 16 13 19-0014	LF		4' Wide Valley Gutter, 7" Thick.....	48.40	
			For Up To 20, Add	22.39	
			For >20 To 50, Add	12.46	
			For >50 To 100, Add	4.96	
			For >500 To 1,000, Deduct	-4.96	
			For >1,000, Deduct	-8.65	
32 16 13 19-0015	LF		5' Wide Valley Gutter, 7" Thick.....	57.33	
			For Up To 20, Add	25.76	
			For >20 To 50, Add	14.31	
			For >50 To 100, Add	5.73	
			For >500 To 1,000, Deduct	-5.73	
			For >1,000, Deduct	-10.02	
32 16 13 19-0016	LF		6' Wide Valley Gutter, 7" Thick.....	65.89	
			For Up To 20, Add	28.88	
			For >20 To 50, Add	16.01	
			For >50 To 100, Add	6.43	
			For >500 To 1,000, Deduct	-6.43	
			For >1,000, Deduct	-11.30	
32 16 13 19-0017	SF		>6' Wide Valley Gutter, 7" Thick	10.98	
			For Up To 100, Add	4.81	
			For >100 To 250, Add	2.67	
			For >250 To 500, Add	1.07	
			For >2,500 To 5,000, Deduct	-1.07	
			For >5,000, Deduct	-1.88	
32 16 13 19-0018	LF		2' Wide Valley Gutter, 8" Thick.....	25.88	
			For Up To 20, Add	12.60	
			For >20 To 50, Add	7.04	
			For >50 To 100, Add	2.78	
			For >500 To 1,000, Deduct	-2.78	
			For >1,000, Deduct	-4.81	
32 16 13 19-0019	LF		2-1/2' Wide Valley Gutter, 8" Thick	31.70	
			For Up To 20, Add	15.29	
			For >20 To 50, Add	8.54	
			For >50 To 100, Add	3.38	
			For >500 To 1,000, Deduct	-3.38	
			For >1,000, Deduct	-5.86	
32 16 13 19-0020	LF		3' Wide Valley Gutter, 8" Thick.....	37.40	
			For Up To 20, Add	17.90	
			For >20 To 50, Add	9.99	
			For >50 To 100, Add	3.95	
			For >500 To 1,000, Deduct	-3.95	
			For >1,000, Deduct	-6.87	
32 16 13 19-0021	LF		3-1/2' Wide Valley Gutter, 8" Thick	43.12	
			For Up To 20, Add	20.52	
			For >20 To 50, Add	11.45	
			For >50 To 100, Add	4.54	
			For >500 To 1,000, Deduct	-4.54	
			For >1,000, Deduct	-7.88	
32 16 13 19-0022	LF		4' Wide Valley Gutter, 8" Thick.....	48.83	
			For Up To 20, Add	23.14	
			For >20 To 50, Add	12.91	
			For >50 To 100, Add	5.12	
			For >500 To 1,000, Deduct	-5.12	
			For >1,000, Deduct	-8.90	
32 16 13 19-0023	LF		5' Wide Valley Gutter, 8" Thick.....	57.69	
32 16 13 19-0024	LF		6' Wide Valley Gutter, 8" Thick.....	66.16	
32 16 13 19-0025	SF		>6' Wide Valley Gutter, 8" Thick	11.03	
			For Up To 100, Add	4.96	
			For >100 To 250, Add	2.76	
			For >250 To 500, Add	1.10	
			For >2,500 To 5,000, Deduct	-1.10	
			For >5,000, Deduct	-1.93	



Exterior Improvements		32
Bases, Ballasts, And Paving		32 10
Curbs, Gutters, Sidewalks, And Driveways		32 16

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0026 Gutter Intersections (32 16 13 19)		
Note: Assembly includes installation, concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0027 EA Cross Gutter At T Section	982.10	
32 16 13 19-0028 EA 8' Alley Intersection Or Typical Cross Gutter	1,176.16	
32 16 13 19-0029 EA 10' Alley Intersection Or Typical Cross Gutter	1,837.75	
32 16 13 19-0030 EA 15' Alley Intersection Or Typical Cross Gutter	4,134.93	
32 16 13 19-0031 EA 20' Alley Intersection Or Typical Cross Gutter	7,350.99	
32 16 13 19-0032 EA 25' Alley Intersection Or Typical Cross Gutter	11,485.92	
32 16 13 19-0033 EA 30' Alley Intersection Or Typical Cross Gutter	16,539.73	
32 16 13 19-0034 Driveway Approach, Cast In Place (32 16 13 19)		
Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0035 SF 4 Cast In Place Concrete Driveway Approach	11.10	
For Up To 100, Add	4.91	
For >100 To 500, Add	1.41	
For >1,000 To 5,000, Deduct	-0.85	
For >5,000, Deduct	-1.83	
32 16 13 19-0036 SF 6" Cast In Place Concrete Driveway Approach	15.27	
For Up To 100, Add	6.73	
For >100 To 500, Add	1.93	
For >1,000 To 5,000, Deduct	-1.17	
For >5,000, Deduct	-2.51	
32 16 13 23 Precast Concrete Curbs And Gutters (32 16 13)		
32 16 13 23-0001 Precast Concrete Curb (32 16 13 23)		
32 16 13 23-0002 LF 6" x 18" Precast Concrete Curb	36.90	7.82
32 16 13 23-0003 LF 6" x 18" Precast Concrete Curb, Radius	44.31	8.99
32 16 13 23-0004 LF 6" x 20" Precast Concrete Curb	39.33	7.82
32 16 13 23-0005 LF 6" x 20" Precast Concrete Curb, Radius	47.52	8.99
32 16 13 23-0006 LF 7" x 18" Precast Concrete Curb	40.44	7.82
32 16 13 23-0007 LF 7" x 18" Precast Concrete Curb, Radius	48.80	8.99
32 16 13 23-0008 LF 7" x 20" Precast Concrete Curb	43.19	7.82
32 16 13 23-0009 LF 7" x 20" Precast Concrete Curb, Radius	52.29	8.99
32 16 13 33 Asphalt Curbs (32 16 13)		
32 16 13 33-0001 Asphalt Curbs (32 16 13 33)		
32 16 13 33-0002 LF 6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain	10.38	4.14
32 16 13 33-0003 LF 8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain	11.71	4.61
32 16 13 33-0004 LF 8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain	12.92	5.06
32 16 13 43 Stone Curbs (32 16 13)		
32 16 13 43-0001 Remove And Reset Stone And Precast Curbing (32 16 13 43)		
Note: Includes storage and cleaning.		
32 16 13 43-0002 LF Removal And Resetting Of Stone Or Precast Curbing	29.70	
Note: Includes storage and cleaning.		
32 16 23 Sidewalks (32 16)		
32 16 23 00-0001 Cast In Place Concrete Sidewalk (32 16 23)		
Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0088 for pumping with boom truck, 03 31 13 00-0098 for buggies, 03 31 13 00-0105 for short loads, 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0002 SF 4" Cast In Place Concrete Sidewalk	7.79	
For Up To 100, Add	3.31	
For >100 To 500, Add	0.93	
For >1,000 To 5,000, Deduct	-0.54	
For >5,000, Deduct	-1.21	
For Welded Wire Reinforcement, Add	0.57	
32 16 23 00-0003 SF 5" Cast In Place Concrete Sidewalk	8.51	
For Up To 100, Add	3.54	
For >100 To 500, Add	0.99	
For >1,000 To 5,000, Deduct	-0.56	
For >5,000, Deduct	-1.27	
For Welded Wire Reinforcement, Add	0.58	
32 16 23 00-0004 SF 6" Cast In Place Concrete Sidewalk	9.25	
For Up To 100, Add	3.77	
For >100 To 500, Add	1.05	
For >1,000 To 5,000, Deduct	-0.58	
For >5,000, Deduct	-1.34	
For Welded Wire Reinforcement, Add	0.60	

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 16 Curbs, Gutters, Sidewalks, And Driveways**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0005	SF	7" Cast In Place Concrete Sidewalk	10.74	
		For Up To 100, Add	4.34	
		For >100 To 500, Add	1.20	
		For >1,000 To 5,000, Deduct	-0.66	
		For >5,000, Deduct	-1.53	
		For Welded Wire Reinforcement, Add	0.66	
32 16 23 00-0006	SF	8" Cast In Place Concrete Sidewalk	11.39	
		For Up To 100, Add	4.54	
		For >100 To 500, Add	1.24	
		For >1,000 To 5,000, Deduct	-0.68	
		For >5,000, Deduct	-1.58	
		For Welded Wire Reinforcement, Add	0.67	
32 16 23 00-0007	SF	For Exposed Aggregate Finish In Sidewalk	1.94	
32 16 23 00-0008	EA	Finish Concrete Handicap Drop Section In Sidewalk.....	116.40	
		Note: Excludes patterned (tactile) finish.		
32 16 23 00-0009 Bituminous Sidewalk (32 16 23)				
		Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0010	SY	1" Bituminous Sidewalk.....	7.93	
		For Up To 100, Add	2.90	
		For >100 To 500, Add	0.76	
		For >1,000 To 5,000, Deduct	-0.37	
		For >5,000, Deduct	-0.76	
32 16 23 00-0011	SY	1-1/2" Bituminous Sidewalk	10.00	
		For Up To 100, Add	3.60	
		For >100 To 500, Add	0.94	
		For >1,000 To 5,000, Deduct	-0.44	
		For >5,000, Deduct	-0.94	
32 16 23 00-0012	SY	2" Bituminous Sidewalk.....	13.98	
		For Up To 100, Add	4.86	
		For >100 To 500, Add	1.24	
		For >1,000 To 5,000, Deduct	-0.55	
		For >5,000, Deduct	-1.24	
32 16 23 00-0013	SY	2-1/2" Bituminous Sidewalk	17.48	
		For Up To 100, Add	6.06	
		For >100 To 500, Add	1.55	
		For >1,000 To 5,000, Deduct	-0.68	
		For >5,000, Deduct	-1.55	
32 16 23 00-0014	SY	3" Bituminous Sidewalk.....	20.19	
		For Up To 100, Add	6.88	
		For >100 To 500, Add	1.74	
		For >1,000 To 5,000, Deduct	-0.73	
		For >5,000, Deduct	-1.74	
32 16 23 00-0015	SY	3-1/2" Bituminous Sidewalk	23.40	
		For Up To 100, Add	7.87	
		For >100 To 500, Add	1.98	
		For >1,000 To 5,000, Deduct	-0.81	
		For >5,000, Deduct	-1.98	
32 16 43 Asphalt Dike (32 16)				
32 16 43 00-0001 Asphalt Dike (32 16 43)				
32 16 43 00-0002	LF	Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	5.73	
32 16 43 00-0003	LF	Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height	7.90	
32 16 43 00-0004	LF	Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height.....	7.90	
32 16 43 00-0005	LF	Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height.....	11.36	
32 16 43 00-0006	LF	Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height.....	13.48	
32 16 43 00-0007	LF	Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	2.92	
32 16 43 00-0008	LF	Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back.....	8.22	
32 16 43 00-0009	LF	Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back.....	12.68	
32 16 43 00-0010	LF	CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	5.73	
32 16 43 00-0011	LF	CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	2.92	
32 16 43 00-0012	LF	CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	12.68	
32 16 43 00-0013	LF	CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back.....	8.22	
32 16 43 00-0014	LF	CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height	4.30	
32 17 Paving Specialties (32 10)				
32 17 13 Parking Bumpers (32 17)				
		Note: Includes dowels set.		
32 17 13 16 Plastic Parking Bumpers (32 17 13)				
32 17 13 16-0001	EA	4" x 6" x 4' Recycled Plastic Wheel Stop	59.07	5.65
32 17 13 16-0002	EA	4" x 6" x 6' Recycled Plastic Wheel Stop	65.95	5.65
32 17 13 19 Precast Concrete Parking Bumpers (32 17 13)				
32 17 13 19-0001	EA	6" x 8" x 4' Precast Concrete Wheel Stop With Dowels	46.22	17.00
32 17 13 19-0002	EA	6" x 6" x 6' Precast Concrete Wheel Stop With Dowels	53.74	17.00



Exterior Improvements			32	32
Bases, Ballasts, And Paving			32 10	
Paving Specialties			32 17	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 13 19-0003	EA	6" x 8" x 6' Precast Concrete Wheel Stop With Dowels.....	54.94	17.00	
32 17 13 19-0004	EA	6" x 10" x 6' Precast Concrete Wheel Stop With Dowels.....	57.40	17.00	
32 17 13 19-0005	EA	8" x 4-1/2" x 6' Precast Concrete Wheel Stop With Dowels.....	53.74	17.00	
32 17 13 19-0006	EA	8" x 13" x 6' Precast Concrete Wheel Stop With Dowels.....	67.33	17.00	
32 17 13 19-0007	EA	7.625" x 7.625" x 6' Precast Concrete Wheel Stop.....	73.78	17.00	
32 17 13 19-0008	EA	7.625" x 7.625" x 8' Precast Concrete Wheel Stop.....	106.76	17.00	
32 17 13 19-0009	EA	8" x 12" x 8' Precast Concrete Wheel Stop With Dowels.....	104.47	18.36	
32 17 13 23 Rubber Parking Bumpers (32 17 13)					
32 17 13 23-0001	EA	3' Recycled Rubber Wheel Stop.....	26.43	5.65	
32 17 13 23-0002	EA	4' Recycled Rubber Wheel Stop.....	31.11	5.65	
32 17 13 23-0003	EA	5' Recycled Rubber Wheel Stop.....	32.99	5.65	
32 17 13 23-0004	EA	6' Recycled Rubber Wheel Stop.....	35.80	5.65	
32 17 13 26 Wood Parking Bumpers (32 17 13)					
32 17 13 26-0001	LF	4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated.....	8.14	1.36	
32 17 13 26-0002	LF	6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated.....	10.78	1.36	
32 17 13 33 Remove And Relocate Parking Bumpers (32 17 13)					
32 17 13 33-0001	EA	Removal And Relocation Of Precast Concrete Wheel Stop.....	27.19		
32 17 13 33-0002	EA	Removal And Relocation Of Plastic Or Wood Wheel Stop.....	17.68		
32 17 13 33-0003	EA	Reset 4' Bumper.....	24.06		
32 17 13 33-0004	EA	Reset 6' Bumper.....	33.12		
32 17 16 Speed Bumps (32 17)					
32 17 16 00-0001 Modular Rubber Speed Tables (32 17 16)					
Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.					
32 17 16 00-0002	SF	Up To 24' Road Width x 7' Run Modular Rubber Speed Table.....	43.67		
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0003	SF	Up To 24' Road Width x 14' Run Modular Rubber Speed Table.....	38.15		
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0004	SF	Up To 24' Road Width x 21' Run Modular Rubber Speed Table.....	35.68		
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0005	SF	>24' To 30' Road Width x 7' Run Modular Rubber Speed Table.....	41.75		
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0006	SF	>24' To 30' Road Width x 14' Run Modular Rubber Speed Table.....	36.62		
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0007	SF	>24' To 30' Road Width x 21' Run Modular Rubber Speed Table.....	34.42		
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0008	SF	>30' To 40' Road Width x 7' Run Modular Rubber Speed Table.....	39.80		
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0009	SF	>30' To 40' Road Width x 14' Run Modular Rubber Speed Table.....	35.43		
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0010	SF	>30' To 40' Road Width x 21' Run Modular Rubber Speed Table.....	33.37		
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0011 Asphalt Speed Table (32 17 16)					
Note: Excludes pavement markings or reflectors.					
32 17 16 00-0012	LF	Up to 36" Wide Asphalt Speed Table With 3" Center Crown.....	28.99		
Note: Tapered on edges to roadway.					
32 17 16 00-0013	LF	>36" To 48" Wide Asphalt Speed Table With 3" Center Crown.....	34.24		
Note: Tapered on edges to roadway.					
32 17 16 00-0014	LF	Up to 36" Wide Asphalt Speed Table With 4" Center Crown.....	36.44		
Note: Tapered on edges to roadway.					
32 17 16 00-0015	LF	>36" To 48" Wide Asphalt Speed Table With 4" Center Crown.....	43.10		
Note: Tapered on edges to roadway.					
32 17 16 00-0016	LF	Up to 36" Wide Asphalt Speed Table With 6" Center Crown.....	44.35		
Note: Tapered on edges to roadway.					
32 17 16 00-0017	LF	>36" To 48" Wide Asphalt Speed Table With 6" Center Crown.....	49.62		
Note: Tapered on edges to roadway.					
32 17 16 00-0018 Speed Bumps (32 17 16)					
Note: Excludes pavement markings or reflectors.					
32 17 16 00-0019	LF	2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump.....	31.53	1.44	
32 17 16 00-0020	LF	2-1/4" High x 12" Wide, Recycled Rubber Speed Bump.....	26.44	0.96	
32 17 16 00-0021	LF	2-5/8" High x 12" Wide, Recycled Plastic Speed Bump.....	37.69	0.96	

32 Exterior Improvements
32 10 Bases, Ballasts, And Paving
32 17 Paving Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 17 23 Pavement Markings (32 17)

32 17 23 09 Minimum Charge For Pavement Striping (32 17 23)

Note: For projects where the total pavement striping charge is less than the minimum charge, use item exclusively. Item should not be used in conjunction with any other items in this section.

32 17 23 09-0001 EA Pavement Striping Minimum Charge 326.60

32 17 23 13 Painted Pavement Markings (32 17 23)

32 17 23 13-0001 Striping, Letters, Symbols And Markers for Roads And Airports (32 17 23 13)

Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.

32 17 23 13-0002 Epoxy Reflective Pavement Marking (32 17 23 13-0001)

Note: 15 mil thickness.

32 17 23 13-0003	LF Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping	0.40
	For 20 Mil Thickness, Add	0.11
	For Up To 1 Mile, Add	0.08
	For >5 Miles, Deduct	-0.06
	For Broken Line (25% Solid), Deduct	-0.17
32 17 23 13-0004	LF Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping	0.56
	For 20 Mil Thickness, Add	0.16
	For Up To 1 Mile, Add	0.11
	For >5 Miles, Deduct	-0.08
	For Broken Line (25% Solid), Deduct	-0.25
32 17 23 13-0005	LF Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping	0.68
	For 20 Mil Thickness, Add	0.19
	For Up To 1 Mile, Add	0.14
	For >5 Miles, Deduct	-0.10
	For Broken Line (25% Solid), Deduct	-0.29
32 17 23 13-0006	LF Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping	1.01
	For 20 Mil Thickness, Add	0.29
	For Up To 1 Mile, Add	0.20
	For >5 Miles, Deduct	-0.15
	For Broken Line (25% Solid), Deduct	-0.48
32 17 23 13-0007	LF Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping	0.61
	For 20 Mil Thickness, Add	0.18
	For Up To 1 Mile, Add	0.12
	For >5 Miles, Deduct	-0.09
	For Broken Line On One Side, Deduct	-0.16
	For Double Broken Line, Deduct	-0.32
32 17 23 13-0008	LF Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping	0.88
	For 20 Mil Thickness, Add	0.27
	For Up To 1 Mile, Add	0.18
	For >5 Miles, Deduct	-0.13
	For Broken Line On One Side, Deduct	-0.24
	For Double Broken Line, Deduct	-0.49
32 17 23 13-0009	SF Solid Area, Epoxy Reflective Pavement Marking	6.06
	Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.	
	For 20 Mil Thickness, Add	0.65
32 17 23 13-0010	EA 6" High, Letter/Number, Epoxy Reflective Pavement Marking	3.81
	For 20 Mil Thickness, Add	0.34
	For <10, Add	0.50
	For >50 To 100, Deduct	-0.25
	For >100 To 200, Deduct	-0.34
	For >200, Deduct	-0.67
32 17 23 13-0011	EA 12" High, Letter/Number, Epoxy Reflective Pavement Marking	6.73
	For 20 Mil Thickness, Add	0.83
	For <10, Add	0.76
	For >50 To 100, Deduct	-0.38
	For >100 To 200, Deduct	-0.51
	For >200, Deduct	-1.01
32 17 23 13-0012	EA 24" High, Letter/Number, Epoxy Reflective Pavement Marking	11.34
	For 20 Mil Thickness, Add	1.44
	For <10, Add	1.26
	For >50 To 100, Deduct	-0.63
	For >100 To 200, Deduct	-0.84
	For >200, Deduct	-1.68
32 17 23 13-0013	EA 36" High, Letter/Number, Epoxy Reflective Pavement Marking	21.97
	For 20 Mil Thickness, Add	2.64
	For <10, Add	2.52
	For >50 To 100, Deduct	-1.26
	For >100 To 200, Deduct	-1.68
	For >200, Deduct	-3.36
32 17 23 13-0014	EA 48" High, Letter/Number, Epoxy Reflective Pavement Marking	25.55
	For 20 Mil Thickness, Add	3.26
	For <10, Add	2.83
	For >50 To 100, Deduct	-1.41
	For >100 To 200, Deduct	-1.89
	For >200, Deduct	-3.77



Exterior Improvements		32
Bases, Ballasts, And Paving		32 10
Paving Specialties		32 17

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0015	EA		72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	45.77	
			For 20 Mil Thickness, Add	5.91	
			For <10, Add	5.03	
			For >50 To 100, Deduct	-2.52	
			For >100 To 200, Deduct	-3.36	
			For >200, Deduct	-6.71	
32 17 23 13-0016	EA		96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	61.14	
			For 20 Mil Thickness, Add	7.82	
			For <10, Add	6.76	
			For >50 To 100, Deduct	-3.38	
			For >100 To 200, Deduct	-4.51	
			For >200, Deduct	-9.01	
32 17 23 13-0017	EA		120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	91.72	
			For 20 Mil Thickness, Add	15.01	
			For <10, Add	8.37	
			For >50 To 100, Deduct	-4.19	
			For >100 To 200, Deduct	-5.58	
			For >200, Deduct	-11.17	
32 17 23 13-0018	SF		Letter/Number, Epoxy Reflective Pavement Marking	6.22	
			For 20 Mil Thickness, Add	0.66	
32 17 23 13-0019	SF		Symbols, Epoxy Reflective Pavement Marking.....	7.93	
			Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0020			Alkyd/Solvent Based/Latex Reflective Pavement Marking (32 17 23 13-0001)		
			Note: 15 mil thickness.		
32 17 23 13-0021	LF		Single 4" Wide Solid Line, Painted Reflective Pavement Striping.....	0.23	
			Note: Includes solvent based and latex paints.		
			For Up To 1 Mile, Add	0.05	
			For >5 Miles, Deduct	-0.03	
			For Broken Line (25% Solid), Deduct	-0.04	
32 17 23 13-0022	LF		Single 6" Wide Solid Line, Painted Reflective Pavement Striping.....	0.31	
			Note: Includes solvent based and latex paints.		
			For Up To 1 Mile, Add	0.06	
			For >5 Miles, Deduct	-0.05	
			For Broken Line (25% Solid), Deduct	-0.06	
32 17 23 13-0023	LF		Single 8" Wide Solid Line, Painted Reflective Pavement Striping.....	0.38	
			Note: Includes solvent based and latex paints.		
			For Up To 1 Mile, Add	0.08	
			For >5 Miles, Deduct	-0.06	
			For Broken Line (25% Solid), Deduct	-0.07	
32 17 23 13-0024	LF		Single 12" Wide Solid Line, Painted Reflective Pavement Striping.....	0.51	
			Note: Includes solvent based and latex paints.		
			For Up To 1 Mile, Add	0.10	
			For >5 Miles, Deduct	-0.08	
			For Broken Line (25% Solid), Deduct	-0.11	
32 17 23 13-0025	LF		Double 4" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.34	
			For Up To 1 Mile, Add	0.07	
			For >5 Miles, Deduct	-0.05	
			For Broken Line On One Side, Deduct	-0.04	
			For Double Broken Line, Deduct	-0.08	
32 17 23 13-0026	LF		Double 6" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.51	
			For Up To 1 Mile, Add	0.10	
			For >5 Miles, Deduct	-0.08	
			For Broken Line On One Side, Deduct	-0.05	
			For Double Broken Line, Deduct	-0.11	
32 17 23 13-0027	SF		Solid Area, Painted Reflective Pavement Striping	5.04	
			Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0028	EA		6" (15 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	3.61	
			Note: Includes solvent based and latex paints.		
			For <10, Add	0.50	
			For >50 To 100, Deduct	-0.25	
			For >100 To 200, Deduct	-0.34	
			For >200, Deduct	-0.67	
32 17 23 13-0029	EA		12" (31 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	6.01	
			Note: Includes solvent based and latex paints.		
			For <10, Add	0.76	
			For >50 To 100, Deduct	-0.38	
			For >100 To 200, Deduct	-0.51	
			For >200, Deduct	-1.01	
32 17 23 13-0030	EA		24" (61 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	10.07	
			Note: Includes solvent based and latex paints.		
			For <10, Add	1.26	
			For >50 To 100, Deduct	-0.63	
			For >100 To 200, Deduct	-0.84	
			For >200, Deduct	-1.68	
32 17 23 13-0031	EA		36" (91 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	19.74	
			Note: Includes solvent based and latex paints.		
			For <10, Add	2.52	
			For >50 To 100, Deduct	-1.26	
			For >100 To 200, Deduct	-1.68	
			For >200, Deduct	-3.36	

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32 17 23 13-0032	EA		48" (122 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	22.65	
			Note: Includes solvent based and latex paints.		
			For <10, Add	2.83	
			For >50 To 100, Deduct	-1.41	
			For >100 To 200, Deduct	-1.89	
			For >200, Deduct	-3.77	
32 17 23 13-0033	EA		72" (183 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	40.47	
			Note: Includes solvent based and latex paints.		
			For <10, Add	5.03	
			For >50 To 100, Deduct	-2.52	
			For >100 To 200, Deduct	-3.36	
			For >200, Deduct	-6.71	
32 17 23 13-0034	EA		96" (244 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	54.17	
			Note: Includes solvent based and latex paints.		
			For <10, Add	6.76	
			For >50 To 100, Deduct	-3.38	
			For >100 To 200, Deduct	-4.51	
			For >200, Deduct	-9.01	
32 17 23 13-0035	EA		120" (305 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	76.17	
			Note: Includes solvent based and latex paints.		
			For <10, Add	8.37	
			For >50 To 100, Deduct	-4.19	
			For >100 To 200, Deduct	-5.58	
			For >200, Deduct	-11.17	
32 17 23 13-0036	SF		Letter/Number, Painted Reflective Pavement Marking	5.72	
			Note: Includes solvent based and latex paints.		
32 17 23 13-0037	SF		Symbols, Painted Reflective Pavement Marking	6.86	
			Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.		
32 17 23 13-0038			Pavement Marking (CALTRANS) (32 17 23 13)		
			Note: Per LF of detail.		
32 17 23 13-0039	LF		CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping	0.20	
			For Up To 1 Mile, Add	0.04	
			For >5 Miles, Deduct	-0.03	
32 17 23 13-0040	LF		CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping	0.28	
			For Up To 1 Mile, Add	0.06	
			For >5 Miles, Deduct	-0.04	
32 17 23 13-0041	LF		CALTRANS Detail 4 Centerline	0.49	
			For Up To 1 Mile, Add	0.10	
			For >5 Miles, Deduct	-0.07	
32 17 23 13-0042	LF		CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping	0.19	
			For Up To 1 Mile, Add	0.04	
			For >5 Miles, Deduct	-0.03	
32 17 23 13-0043	LF		CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping	0.28	
			For Up To 1 Mile, Add	0.06	
			For >5 Miles, Deduct	-0.04	
32 17 23 13-0044	LF		CALTRANS Detail 7 Centerline	0.35	
			For Up To 1 Mile, Add	0.07	
			For >5 Miles, Deduct	-0.05	
32 17 23 13-0045	LF		CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping	0.20	
			For Up To 1 Mile, Add	0.04	
			For >5 Miles, Deduct	-0.03	
32 17 23 13-0046	LF		CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.28	
			For Up To 1 Mile, Add	0.06	
			For >5 Miles, Deduct	-0.04	
32 17 23 13-0047	LF		CALTRANS Detail 10 Lanelines	0.49	
			For Up To 1 Mile, Add	0.10	
			For >5 Miles, Deduct	-0.07	
32 17 23 13-0048	LF		CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.19	
			For Up To 1 Mile, Add	0.04	
			For >5 Miles, Deduct	-0.03	
32 17 23 13-0049	LF		CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.28	
			For Up To 1 Mile, Add	0.06	
			For >5 Miles, Deduct	-0.04	
32 17 23 13-0050	LF		CALTRANS Detail 13 Lanelines	0.35	
			For Up To 1 Mile, Add	0.07	
			For >5 Miles, Deduct	-0.05	
32 17 23 13-0051	LF		CALTRANS Detail 14 Lanelines	0.35	
			For Up To 1 Mile, Add	0.07	
			For >5 Miles, Deduct	-0.05	
32 17 23 13-0052	LF		CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping.....	0.28	
			For Up To 1 Mile, Add	0.06	
			For >5 Miles, Deduct	-0.04	
32 17 23 13-0053	LF		CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.25	
			For Up To 1 Mile, Add	0.05	
			For >5 Miles, Deduct	-0.04	
			For Broken Line On One Side, Deduct	-0.03	
			For Double Broken Line, Deduct	-0.05	
32 17 23 13-0054	LF		CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.58	
			For Up To 1 Mile, Add	0.12	
			For >5 Miles, Deduct	-0.09	
32 17 23 13-0055	LF		CALTRANS Detail 17 No Passing Zones-One Direction Lanelines	1.42	
			For Up To 1 Mile, Add	0.28	
			For >5 Miles, Deduct	-0.21	



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32 17 23 13-0056 LF CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.25	
For Up To 1 Mile, Add	0.05	
For >5 Miles, Deduct	-0.04	
For Broken Line On One Side, Deduct	-0.03	
For Double Broken Line, Deduct	-0.05	
32 17 23 13-0057 LF CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.50	
For Up To 1 Mile, Add	0.10	
For >5 Miles, Deduct	-0.08	
32 17 23 13-0058 LF CALTRANS Detail 20 No Passing Zones-One Direction Lanelines.....	1.20	
For Up To 1 Mile, Add	0.24	
For >5 Miles, Deduct	-0.18	
32 17 23 13-0059 LF CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping.....	0.29	
For Up To 1 Mile, Add	0.06	
For >5 Miles, Deduct	-0.04	
For Broken Line On One Side, Deduct	-0.04	
For Double Broken Line, Deduct	-0.08	
32 17 23 13-0060 LF CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping.....	0.62	
For Up To 1 Mile, Add	0.12	
For >5 Miles, Deduct	-0.09	
32 17 23 13-0061 LF CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines.....	1.69	
For Up To 1 Mile, Add	0.34	
For >5 Miles, Deduct	-0.25	
32 17 23 13-0062 LF CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping.....	0.24	
For Up To 1 Mile, Add	0.05	
For >5 Miles, Deduct	-0.04	
32 17 23 13-0063 LF CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping.....	0.32	
For Up To 1 Mile, Add	0.06	
For >5 Miles, Deduct	-0.05	
32 17 23 13-0064 LF CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping	0.40	
For Up To 1 Mile, Add	0.08	
For >5 Miles, Deduct	-0.06	
32 17 23 13-0065 LF CALTRANS Detail 26 Left Edgelines.....	0.08	
For Up To 1 Mile, Add	0.02	
For >5 Miles, Deduct	-0.01	
32 17 23 13-0066 LF CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping.....	0.38	
For Up To 1 Mile, Add	0.08	
For >5 Miles, Deduct	-0.06	
32 17 23 13-0067 LF CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping	0.24	
For Up To 1 Mile, Add	0.05	
For >5 Miles, Deduct	-0.04	
32 17 23 13-0068 LF CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping	0.19	
For Up To 1 Mile, Add	0.04	
For >5 Miles, Deduct	-0.03	
32 17 23 13-0069 LF CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping	0.60	
For Up To 1 Mile, Add	0.12	
For >5 Miles, Deduct	-0.09	
For Broken Line On One Side, Deduct	-0.09	
For Double Broken Line, Deduct	-0.17	
32 17 23 13-0070 LF CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping	0.92	
For Up To 1 Mile, Add	0.18	
For >5 Miles, Deduct	-0.14	
32 17 23 13-0071 LF CALTRANS Detail 30 Median Islands	3.38	
For Up To 1 Mile, Add	0.68	
For >5 Miles, Deduct	-0.51	
32 17 23 13-0072 LF CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	0.51	
For Up To 1 Mile, Add	0.10	
For >5 Miles, Deduct	-0.08	
For Broken Line On One Side, Deduct	-0.05	
For Double Broken Line, Deduct	-0.11	
32 17 23 13-0073 LF CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	0.92	
For Up To 1 Mile, Add	0.18	
For >5 Miles, Deduct	-0.14	
32 17 23 13-0074 LF CALTRANS Detail 33 Two-Way Left Turn Lanes	2.31	
For Up To 1 Mile, Add	0.46	
For >5 Miles, Deduct	-0.35	
32 17 23 13-0075 LF CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping	0.50	
For Up To 1 Mile, Add	0.10	
For >5 Miles, Deduct	-0.08	
32 17 23 13-0076 LF CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping.....	0.25	
For Up To 1 Mile, Add	0.05	
For >5 Miles, Deduct	-0.04	
32 17 23 13-0077 LF CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping	0.58	
For Up To 1 Mile, Add	0.12	
For >5 Miles, Deduct	-0.09	
32 17 23 13-0078 LF CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping.....	0.25	
For Up To 1 Mile, Add	0.05	
For >5 Miles, Deduct	-0.04	
32 17 23 13-0079 LF CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping	1.09	
For Up To 1 Mile, Add	0.22	
For >5 Miles, Deduct	-0.16	
32 17 23 13-0080 LF CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping.....	0.73	
For Up To 1 Mile, Add	0.15	
For >5 Miles, Deduct	-0.11	

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32 17 23 13-0081	LF	CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	0.78	
		For Up To 1 Mile, Add	0.16	
		For >5 Miles, Deduct	-0.12	
32 17 23 13-0082	LF	CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	0.68	
		For Up To 1 Mile, Add	0.14	
		For >5 Miles, Deduct	-0.10	
32 17 23 13-0083	LF	CALTRANS Detail 37A Lane Drop At Exit Ramps	1.13	
		For Up To 1 Mile, Add	0.23	
		For >5 Miles, Deduct	-0.17	
32 17 23 13-0084	LF	CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping	0.68	
		For Up To 1 Mile, Add	0.14	
		For >5 Miles, Deduct	-0.10	
32 17 23 13-0085	LF	CALTRANS Detail 37C Lane Drop At Intersections	1.13	
		For Up To 1 Mile, Add	0.23	
		For >5 Miles, Deduct	-0.17	
32 17 23 13-0086	LF	CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	0.66	
		For Up To 1 Mile, Add	0.13	
		For >5 Miles, Deduct	-0.10	
32 17 23 13-0087	LF	CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping	0.50	
		For Up To 1 Mile, Add	0.10	
		For >5 Miles, Deduct	-0.08	
32 17 23 13-0088	LF	CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping	0.82	
		For Up To 1 Mile, Add	0.16	
		For >5 Miles, Deduct	-0.12	
32 17 23 13-0089	LF	CALTRANS Detail 38C Channelizing Line	1.69	
		For Up To 1 Mile, Add	0.34	
		For >5 Miles, Deduct	-0.25	
32 17 23 13-0090	LF	CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping	0.30	
		For Up To 1 Mile, Add	0.06	
		For >5 Miles, Deduct	-0.05	
32 17 23 13-0091	LF	CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping	0.25	
		For Up To 1 Mile, Add	0.05	
		For >5 Miles, Deduct	-0.04	
32 17 23 13-0092	LF	CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.19	
		For Up To 1 Mile, Add	0.04	
		For >5 Miles, Deduct	-0.03	
32 17 23 13-0093	LF	CALTRANS Detail 40A Lane Line Extensions Through Intersections	0.82	
		For Up To 1 Mile, Add	0.16	
		For >5 Miles, Deduct	-0.12	
32 17 23 13-0094	LF	CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.19	
		For Up To 1 Mile, Add	0.04	
		For >5 Miles, Deduct	-0.03	
32 17 23 13-0095	LF	CALTRANS Detail 41A Center Line Extensions Through Intersections	0.82	
		For Up To 1 Mile, Add	0.16	
		For >5 Miles, Deduct	-0.12	
32 17 23 13-0096	EA	CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	91.17	
		For <10, Add	12.24	
		For >50 To 100, Deduct	-6.12	
		For >100 To 200, Deduct	-8.16	
		For >200, Deduct	-16.33	
32 17 23 13-0097	EA	CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	159.90	
		For <10, Add	21.43	
		For >50 To 100, Deduct	-10.71	
		For >100 To 200, Deduct	-14.29	
		For >200, Deduct	-28.57	
32 17 23 13-0098	EA	CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	200.72	
		For <10, Add	26.94	
		For >50 To 100, Deduct	-13.47	
		For >100 To 200, Deduct	-17.96	
		For >200, Deduct	-35.92	
32 17 23 13-0099	EA	CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	291.91	
		For <10, Add	39.18	
		For >50 To 100, Deduct	-19.59	
		For >100 To 200, Deduct	-26.12	
		For >200, Deduct	-52.25	
32 17 23 13-0100	EA	CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	383.08	
		For <10, Add	51.43	
		For >50 To 100, Deduct	-25.71	
		For >100 To 200, Deduct	-34.29	
		For >200, Deduct	-68.57	
32 17 23 13-0101	EA	CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking	269.45	
		For <10, Add	36.12	
		For >50 To 100, Deduct	-18.06	
		For >100 To 200, Deduct	-24.08	
		For >200, Deduct	-48.16	
32 17 23 13-0102	EA	CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking	470.17	
		For <10, Add	63.06	
		For >50 To 100, Deduct	-31.53	
		For >100 To 200, Deduct	-42.04	
		For >200, Deduct	-84.08	
32 17 23 13-0103	EA	CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	95.95	
		For <10, Add	12.86	
		For >50 To 100, Deduct	-6.43	
		For >100 To 200, Deduct	-8.57	
		For >200, Deduct	-17.14	



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32 17 23 13-0104	EA		CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking.....	210.26	
			For <10, Add	28.16	
			For >50 To 100, Deduct	-14.08	
			For >100 To 200, Deduct	-18.78	
			For >200, Deduct	-37.55	
32 17 23 13-0105	EA		CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking.....	269.45	
			For <10, Add	36.12	
			For >50 To 100, Deduct	-18.06	
			For >100 To 200, Deduct	-24.08	
			For >200, Deduct	-48.16	
32 17 23 13-0106	EA		CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking.....	173.63	
			For <10, Add	23.27	
			For >50 To 100, Deduct	-11.63	
			For >100 To 200, Deduct	-15.51	
			For >200, Deduct	-31.02	
32 17 23 13-0107	EA		CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking.....	228.63	
			For <10, Add	30.61	
			For >50 To 100, Deduct	-15.31	
			For >100 To 200, Deduct	-20.41	
			For >200, Deduct	-40.82	
32 17 23 13-0108	EA		CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking	45.59	
			For <10, Add	6.12	
			For >50 To 100, Deduct	-3.06	
			For >100 To 200, Deduct	-4.08	
			For >200, Deduct	-8.16	
32 17 23 13-0109	EA		CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking.....	435.48	
			Note: Excludes variable width transverse lines.		
			For <10, Add	58.16	
			For >50 To 100, Deduct	-29.08	
			For >100 To 200, Deduct	-38.78	
			For >200, Deduct	-77.55	
32 17 23 13-0110	SF		CALTRANS Solid Area, Painted Reflective Pavement Marking.....	5.66	
32 17 23 13-0111	EA		CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking.....	40.81	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	4.41	
			For >50 To 100, Deduct	-2.20	
			For >100 To 200, Deduct	-2.94	
			For >200, Deduct	-5.88	
32 17 23 13-0112	EA		CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking.....	43.21	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	4.65	
			For >50 To 100, Deduct	-2.33	
			For >100 To 200, Deduct	-3.10	
			For >200, Deduct	-6.20	
32 17 23 13-0113	EA		CALTRANS Diamond Symbol, Painted Reflective Pavement Marking.....	72.80	
			For <10, Add	9.80	
			For >50 To 100, Deduct	-4.90	
			For >100 To 200, Deduct	-6.53	
			For >200, Deduct	-13.06	
32 17 23 13-0114	EA		CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking	147.92	
			For <10, Add	19.84	
			For >50 To 100, Deduct	-9.92	
			For >100 To 200, Deduct	-13.22	
			For >200, Deduct	-26.45	
32 17 23 13-0115	EA		CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	32.33	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	4.65	
			For >50 To 100, Deduct	-2.33	
			For >100 To 200, Deduct	-3.10	
			For >200, Deduct	-6.20	
32 17 23 13-0116	SF		CALTRANS Letter/Number, Painted Reflective Pavement Marking	5.74	
32 17 23 13-0117	SF		CALTRANS Symbols, Painted Reflective Pavement Marking	6.39	
			Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0118			Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)		
32 17 23 13-0119			Painted Pavement Marking For Parking Areas (32 17 23 13-0118)		
32 17 23 13-0120	LF		Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	0.93	
32 17 23 13-0121	LF		Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.01	
32 17 23 13-0122	LF		Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.07	
32 17 23 13-0123	LF		Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.19	
32 17 23 13-0124	SF		Solid Area, Painted Pavement Marking For Parking Areas	5.05	
			Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0125	EA		6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	3.51	
			For Up To 10, Add	0.49	
			For >50 To 100, Deduct	-0.24	
			For >100 To 200, Deduct	-0.33	
			For >200, Deduct	-0.65	
32 17 23 13-0126	EA		12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	5.81	
			For Up To 10, Add	0.74	
			For >50 To 100, Deduct	-0.37	
			For >100 To 200, Deduct	-0.49	
			For >200, Deduct	-0.98	

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32 17 23 13-0127 EA 24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	9.77	
For Up To 10, Add	1.23	
For >50 To 100, Deduct	-0.61	
For >100 To 200, Deduct	-0.82	
For >200, Deduct	-1.63	
32 17 23 13-0128 EA 36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	18.32	
For Up To 10, Add	2.33	
For >50 To 100, Deduct	-1.16	
For >100 To 200, Deduct	-1.55	
For >200, Deduct	-3.10	
32 17 23 13-0129 EA 42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	24.46	
For Up To 10, Add	3.18	
For >50 To 100, Deduct	-1.59	
For >100 To 200, Deduct	-2.12	
For >200, Deduct	-4.24	
32 17 23 13-0130 EA 48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	29.78	
For Up To 10, Add	3.92	
For >50 To 100, Deduct	-1.96	
For >100 To 200, Deduct	-2.61	
For >200, Deduct	-5.22	
32 17 23 13-0131 EA 72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	39.33	
For Up To 10, Add	4.90	
For >50 To 100, Deduct	-2.45	
For >100 To 200, Deduct	-3.27	
For >200, Deduct	-6.53	
32 17 23 13-0132 EA Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	67.22	
Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0133 EA Turn Lane Arrow, Painted Pavement Marking For Parking Areas.....	75.45	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0134 EA Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas	103.87	
Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0135 EA Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	105.77	
Note: Approximate overall dimensions: 7' width x 13' height.		
32 17 23 13-0136 EA Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	135.27	
Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23 13-0137 EA Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas	28.57	
Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
For Blue Background With White Symbol, Add	19.42	
For Blue Background With White Symbol And Border, Add	24.28	
32 17 23 13-0138 EA Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas.....	40.08	
Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.		
For Blue Background With White Symbol, Add	37.86	
For Blue Background With White Symbol And Border, Add	47.32	
32 17 23 13-0139 Painted Curbs (32 17 23 13)		
Note: All colors.		
32 17 23 13-0140 LF Reflective Painted Curb	2.18	
32 17 23 13-0141 LF Reflective Painted Curb And Gutter.....	3.97	
32 17 23 13-0142 LF Painted Curb.....	1.76	
32 17 23 13-0143 LF Painted Curb And Gutter.....	3.50	
32 17 23 13-0144 Markings For Outdoor Play Areas, Courts (32 17 23 13)		
32 17 23 13-0145 LF 2" Wide Marking For Outdoor Play Areas	0.70	
32 17 23 13-0146 LF 3" Wide Marking For Outdoor Play Areas	0.79	
32 17 23 13-0147 LF 4" Wide Marking For Outdoor Play Areas	0.89	
32 17 23 13-0148 LF 6" Wide Marking For Outdoor Play Areas	1.04	
32 17 23 13-0149 EA Paint Playground Game Lines On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera).....	274.41	
32 17 23 23 Raised Pavement Markings (32 17 23)		
32 17 23 23-0001 Raised Pavement Markers (RPMs) (32 17 23 23)		
32 17 23 23-0002 EA One-Way Reflective, Raised Pavement Marker (RPM)	3.74	2.06
Note: Type G, H or R		
For >100, Deduct	-0.37	
32 17 23 23-0003 EA Two-Way Reflective, Raised Pavement Marker (RPM)	3.93	2.06
Note: Type B, C, D, AC, RA or RR		
For >100, Deduct	-0.39	
32 17 23 23-0004 EA 4" Diameter, Round Reflective, Raised Pavement Marker (RPM)	4.59	2.06
For >100, Deduct	-0.46	
32 17 23 23-0005 EA 4" Diameter, Non-Reflective, Raised Pavement Marker (RPM)	3.49	2.06
Note: Type A or AY		
For >100, Deduct	-0.35	
32 17 23 23-0006 Snowplowable Pavement Markers (32 17 23 23)		
32 17 23 23-0007 EA One-Way Reflective, Snowplowable Pavement Marker With Center Rail	52.33	24.37
Note: Type G, H or R		
32 17 23 23-0008 EA Two-Way Reflective, Snowplowable Pavement Marker With Center Rail.....	52.50	24.37
Note: Type B, C, D, AC, RA or RR		
32 17 23 23-0009 EA Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker	14.59	
32 17 23 23-0010 EA Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker	18.82	



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32 17 23 33			Plastic Pavement Markings (32 17 23)		
32 17 23 33-0001			Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads (32 17 23 33) Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.		
32 17 23 33-0002			Thermoplastic Reflective Pavement Marking (32 17 23 33-0001) Note: 90 mil thickness.		
32 17 23 33-0003	LF		Single 4" Wide Solid Line, Thermoplastic Reflective Pavement Striping For Up To 1 Mile, Add For >5 Miles, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add For Broken Line (25% Solid), Deduct	0.93 0.19 -0.14 -0.12 0.16 -0.52	
32 17 23 33-0004	LF		Single 6" Wide Solid Line, Thermoplastic Reflective Pavement Striping For Up To 1 Mile, Add For >5 Miles, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add For Broken Line (25% Solid), Deduct	1.33 0.27 -0.20 -0.18 0.23 -0.77	
32 17 23 33-0005	LF		Single 8" Wide Solid Line, Thermoplastic Reflective Pavement Striping For Up To 1 Mile, Add For >5 Miles, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add For Broken Line (25% Solid), Deduct	1.76 0.35 -0.26 -0.24 0.31 -1.03	
32 17 23 33-0006	LF		Single 12" Wide Solid Line, Thermoplastic Reflective Pavement Striping For Up To 1 Mile, Add For >5 Miles, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add For Broken Line (25% Solid), Deduct	2.56 0.51 -0.38 -0.36 0.46 -1.55	
32 17 23 33-0007	LF		Double 4" Wide Solid Lines, Thermoplastic Reflective Pavement Striping For Up To 1 Mile, Add For >5 Miles, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add For Broken Line On One Side, Deduct For Double Broken Line, Deduct	1.74 0.35 -0.26 -0.24 0.31 -0.51 -1.03	
32 17 23 33-0008	LF		Double 6" Wide Solid Lines, Thermoplastic Reflective Pavement Striping For Up To 1 Mile, Add For >5 Miles, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add For Broken Line On One Side, Deduct For Double Broken Line, Deduct	2.56 0.51 -0.38 -0.36 0.46 -0.77 -1.55	
32 17 23 33-0009	SF		Solid Area, Thermoplastic Reflective Pavement Marking Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc. For 60 mils Thick, Deduct For 125 mils Thick, Add	6.95 -0.36 0.46	
32 17 23 33-0010	EA		6" High, Letter/Number, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	4.70 0.55 -0.28 -0.37 -0.74 -0.18 0.23	
32 17 23 33-0011	EA		12" High, Letter/Number, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	9.25 0.83 -0.42 -0.56 -1.11 -0.65 0.83	
32 17 23 33-0012	EA		24" High, Letter/Number, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	15.70 1.38 -0.69 -0.92 -1.85 -1.13 1.46	
32 17 23 33-0013	EA		36" High, Letter/Number, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	29.91 2.78 -1.39 -1.85 -3.71 -1.99 2.56	

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32 17 23 33-0014 EA 48" High, Letter/Number, Thermoplastic Reflective Pavement Marking	35.54	
For Up To 10, Add	3.11	
For >50 To 100, Deduct	-1.56	
For >100 To 200, Deduct	-2.07	
For >200, Deduct	-4.15	
For 60 mils Thick, Deduct	-2.59	
For 125 mils Thick, Add	3.33	
32 17 23 33-0015 EA 72" High, Letter/Number, Thermoplastic Reflective Pavement Marking	63.93	
For Up To 10, Add	5.54	
For >50 To 100, Deduct	-2.77	
For >100 To 200, Deduct	-3.69	
For >200, Deduct	-7.38	
For 60 mils Thick, Deduct	-4.73	
For 125 mils Thick, Add	6.08	
32 17 23 33-0016 EA 96" High, Letter/Number, Thermoplastic Reflective Pavement Marking	85.12	
For Up To 10, Add	7.43	
For >50 To 100, Deduct	-3.72	
For >100 To 200, Deduct	-4.96	
For >200, Deduct	-9.91	
For 60 mils Thick, Deduct	-6.22	
For 125 mils Thick, Add	8.00	
32 17 23 33-0017 EA 120" High, Letter/Number, Thermoplastic Reflective Pavement Marking.....	140.77	
For Up To 10, Add	9.21	
For >50 To 100, Deduct	-4.60	
For >100 To 200, Deduct	-6.14	
For >200, Deduct	-12.28	
For 60 mils Thick, Deduct	-13.89	
For 125 mils Thick, Add	17.86	
32 17 23 33-0018 SF Letter/Number, Thermoplastic Reflective Pavement Marking	8.11	
For 60 mils Thick, Deduct	-0.45	
For 125 mils Thick, Add	0.58	
32 17 23 33-0019 SY Cross Hatch, Thermoplastic Reflective Pavement Marking	55.17	
For 60 mils Thick, Deduct	-3.23	
For 125 mils Thick, Add	4.15	
32 17 23 33-0020 EA Handicap Symbol, Thermoplastic Reflective Pavement Marking	214.74	
For 60 mils Thick, Deduct	-10.31	
For 125 mils Thick, Add	13.25	
32 17 23 33-0021 SY Solid Area, Thermoplastic Reflective Pavement Marking	68.08	
For 60 mils Thick, Deduct	-3.23	
For 125 mils Thick, Add	4.15	
32 17 23 33-0022 EA Railroad Symbol, Thermoplastic Reflective Pavement Marking.....	636.41	
For 60 mils Thick, Deduct	-31.37	
For 125 mils Thick, Add	40.33	
32 17 23 33-0023 EA Bike Lane Symbol, Thermoplastic Reflective Pavement Marking	113.77	
Note: Approximate overall dimensions: 4' width x 8' height.		
For 60 mils Thick, Deduct	-14.20	
For 125 mils Thick, Add	18.25	
32 17 23 33-0024 EA Diamond Symbol, Thermoplastic Reflective Pavement Marking.....	102.70	
For 60 mils Thick, Deduct	-4.93	
For 125 mils Thick, Add	6.34	
32 17 23 33-0025 SF Symbols, Thermoplastic Reflective Pavement Marking	9.33	
Note: Handicap, railroad, diamond, arrows, etc.		
For 60 mils Thick, Deduct	-0.45	
For 125 mils Thick, Add	0.58	
32 17 23 33-0026 EA 10' Arrow, Type I, Thermoplastic Reflective Pavement Marking.....	130.71	
For 60 mils Thick, Deduct	-6.27	
For 125 mils Thick, Add	8.07	
32 17 23 33-0027 EA 18' Arrow, Type I, Thermoplastic Reflective Pavement Marking	233.41	
For 60 mils Thick, Deduct	-11.20	
For 125 mils Thick, Add	14.40	
32 17 23 33-0028 EA 24' Arrow, Type I, Thermoplastic Reflective Pavement Marking.....	289.43	
For 60 mils Thick, Deduct	-13.89	
For 125 mils Thick, Add	17.86	
32 17 23 33-0029 EA 24' Arrow With Single (L or R) Turn Arrow, Type II, Thermoplastic Reflective Pavement Marking	420.14	
For 60 mils Thick, Deduct	-20.17	
For 125 mils Thick, Add	25.93	
32 17 23 33-0030 EA 24' Arrow With Both (L and R) Turn Arrows, Type II, Thermoplastic Reflective Pavement Marking	550.86	
For 60 mils Thick, Deduct	-26.44	
For 125 mils Thick, Add	34.00	
32 17 23 33-0031 EA 24' Arrow Single (L or R) Turn Arrow, Type III, Thermoplastic Reflective Pavement Marking	392.13	
For 60 mils Thick, Deduct	-18.82	
For 125 mils Thick, Add	24.20	
32 17 23 33-0032 EA 24' Arrow Both (L and R) Turn Arrows, Type III, Thermoplastic Reflective Pavement Marking	681.56	
For 60 mils Thick, Deduct	-32.71	
For 125 mils Thick, Add	42.06	
32 17 23 33-0033 EA 8' Turn Arrow (L or R), Type IV, Thermoplastic Reflective Pavement Marking	140.04	
For 60 mils Thick, Deduct	-6.72	
For 125 mils Thick, Add	8.64	
32 17 23 33-0034 EA 24' Arrow, Type V, Thermoplastic Reflective Pavement Marking.....	308.10	
For 60 mils Thick, Deduct	-14.79	
For 125 mils Thick, Add	19.01	
32 17 23 33-0035 EA 18' Arrow, Type VI, Thermoplastic Reflective Pavement Marking.....	392.13	
For 60 mils Thick, Deduct	-18.82	
For 125 mils Thick, Add	24.20	



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32 17 23 33-0036	EA		13' Arrow With Single (L or R) Turn Arrow, Type VII, Thermoplastic Reflective Pavement Marking.....	252.09	
			For 60 mils Thick, Deduct	-12.10	
			For 125 mils Thick, Add	15.56	
32 17 23 33-0037	EA		15' Arrow With Both (L and R) Turn Arrows, Type VIII, Thermoplastic Reflective Pavement Marking.....	336.11	
			For 60 mils Thick, Deduct	-16.13	
			For 125 mils Thick, Add	20.74	
32 17 23 33-0038	EA		5' Arrow, Bike Lane, Thermoplastic Reflective Pavement Marking.....	65.36	
			For 60 mils Thick, Deduct	-3.14	
			For 125 mils Thick, Add	4.03	
32 17 23 33-0039 Thermoplastic Reflective Pavement Striping By Hand For Repairs (32 17 23 33-0001)					
32 17 23 33-0040	LF		Single 4" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs	2.41	
			For 60 mils Thick, Deduct	-0.12	
			For 125 mils Thick, Add	0.16	
32 17 23 33-0041	LF		Single 6" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs	3.00	
			For 60 mils Thick, Deduct	-0.18	
			For 125 mils Thick, Add	0.23	
32 17 23 33-0042	LF		Single 8" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs	3.66	
			For 60 mils Thick, Deduct	-0.24	
			For 125 mils Thick, Add	0.31	
32 17 23 33-0043	LF		Single 12" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs	5.23	
			For 60 mils Thick, Deduct	-0.36	
			For 125 mils Thick, Add	0.46	
32 17 23 33-0044	LF		Single 24" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs	9.28	
			For 60 mils Thick, Deduct	-0.72	
			For 125 mils Thick, Add	0.93	
32 17 23 33-0045 Preformed, Patterned Reflective Pavement Marking Tape (32 17 23 33-0001)					
Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).					
32 17 23 33-0046	LF		Single 4" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping	1.93	
			For Up To 1 Mile, Add	0.39	
			For >5 Miles, Deduct	-0.29	
32 17 23 33-0047	LF		Single 6" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping	2.85	
			For Up To 1 Mile, Add	0.57	
			For >5 Miles, Deduct	-0.43	
32 17 23 33-0048	LF		Single 8" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping	3.80	
			For Up To 1 Mile, Add	0.76	
			For >5 Miles, Deduct	-0.57	
32 17 23 33-0049	LF		Single 12" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping	5.61	
			For Up To 1 Mile, Add	1.12	
			For >5 Miles, Deduct	-0.84	
32 17 23 33-0050	SF		Preformed Solid Area, Patterned Thermoplastic Reflective Pavement Marking Tape	16.63	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.					
32 17 23 33-0051	EA		6" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	24.53	
			For <10, Add	1.00	
			For >50 To 100, Deduct	-0.50	
			For >100 To 200, Deduct	-0.67	
			For >200, Deduct	-1.34	
32 17 23 33-0052	EA		12" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	42.44	
			For <10, Add	1.27	
			For >50 To 100, Deduct	-0.64	
			For >100 To 200, Deduct	-0.85	
			For >200, Deduct	-1.70	
32 17 23 33-0053	EA		24" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	73.50	
			For <10, Add	2.52	
			For >50 To 100, Deduct	-1.26	
			For >100 To 200, Deduct	-1.68	
			For >200, Deduct	-3.36	
32 17 23 33-0054	EA		36" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	108.55	
			For <10, Add	5.04	
			For >50 To 100, Deduct	-2.52	
			For >100 To 200, Deduct	-3.36	
			For >200, Deduct	-6.73	
32 17 23 33-0055	EA		48" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	126.79	
			For <10, Add	5.66	
			For >50 To 100, Deduct	-2.83	
			For >100 To 200, Deduct	-3.77	
			For >200, Deduct	-7.54	
32 17 23 33-0056	EA		72" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	167.22	
			For <10, Add	10.07	
			For >50 To 100, Deduct	-5.03	
			For >100 To 200, Deduct	-6.71	
			For >200, Deduct	-13.42	
32 17 23 33-0057	EA		96" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	214.41	
			For <10, Add	13.52	
			For >50 To 100, Deduct	-6.76	
			For >100 To 200, Deduct	-9.01	
			For >200, Deduct	-18.02	
32 17 23 33-0058	EA		120" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	268.42	
			For <10, Add	16.75	
			For >50 To 100, Deduct	-8.38	
			For >100 To 200, Deduct	-11.17	
			For >200, Deduct	-22.34	

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32 17 23 33-0059	SF	Preformed Arrow, Patterned Thermoplastic Reflective Pavement Marking Tape	17.28	
32 17 23 33-0060	SF	Preformed Symbol, Patterned Thermoplastic Reflective Pavement Marking Tape..... Note: Handicap, railroad, diamond symbol, etc.	18.50	
32 17 23 33-0061		Preformed, Thermoplastic Reflective Pavement Marking (32 17 23 33-0001) Note: Heat applied. (Flint PreMark or HotTape Series).		
32 17 23 33-0062	EA	Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	145.94	
		Note: Approximate overall dimensions: 4' width x 8' height.		
32 17 23 33-0063	EA	Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	384.10	
		Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.		
32 17 23 33-0064	EA	Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	90.10	
		Note: Approximate overall dimensions: 3-1/4' width x 13' height.		
32 17 23 33-0065	EA	6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	81.90	
		Note: Approximate overall dimensions: 2' width x 6' height.		
32 17 23 33-0066	EA	9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	136.79	
		Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.		
32 17 23 33-0067	EA	4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	90.51	
		Note: Approximate overall dimensions: 3' width x 4' height.		
32 17 23 33-0068	EA	8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	149.25	
		Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 33-0069	EA	Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	237.90	
		Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.		
32 17 23 33-0070	EA	Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	344.67	
		Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.		
32 17 23 33-0071	EA	Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	144.80	
		Note: Approximate overall dimensions: 1-2/3' width x 12' height.		
32 17 23 33-0072	EA	Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	157.26	
		Note: Approximate overall dimensions: 3' width x 12' height.		
32 17 23 33-0073	EA	Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	265.53	
		Note: Approximate overall dimensions: 5-1/2' width x 12' height.		
32 17 23 33-0074	EA	Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	246.89	
		Note: Approximate overall dimensions: 3-1/2' width x 20' height.		
32 17 23 33-0075	EA	Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	249.33	
		Note: Approximate overall dimensions: 5-1/2' width x 20' height.		
32 17 23 33-0076	EA	Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	325.60	
		Note: Approximate overall dimensions: 5-1/2' width x 18' height.		
32 17 23 33-0077		Pavement Marking (Monterey County) (32 17 23 33-0001)		
32 17 23 33-0078	SF	Thermoplastic Pavement Marking (Monterey County)	7.08	
32 17 23 33-0079		Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 33)		
32 17 23 33-0080		Thermoplastic Pavement Marking Tape For Parking Areas (32 17 23 33-0079) Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0081	EA	28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	55.62	
		Note: White or blue symbol. Excludes striping.		
32 17 23 33-0082	EA	39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	175.71	
32 17 23 33-0083	EA	40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	106.17	
		Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0084	EA	45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	125.42	
		Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0085	EA	48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	131.10	
32 17 26		Tactile Warning Surfaces (32 17)		
32 17 26 00-0001		Vitrified Polymer Composite (VPC); (Armor Tile) (32 17 26) Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002	SF	Surface Applied VPC Truncated Dome Detectable Warning Surface.....	58.91	8.16
		Note: Includes surface preparation, adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.		
32 17 26 00-0003	SF	Cast In Place VPC Truncated Dome Detectable Warning Surface.....	48.30	8.16
		Note: Also raised strips or directional bars. All colors.		
32 17 26 00-0004	EA	30.5" x 24" x 2" Precast Concrete Truncated Dome Panel Set In Thinset.....	269.11	
32 17 26 00-0005	LF	24" Wide Temporary Truncated Dome Strips, Screw Down Only Into Asphalt Or Concrete.....	63.83	16.31
32 17 26 00-0006		Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) (32 17 26) Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0007	SF	Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT)	52.94	8.16
		Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		



Exterior Improvements			32
Bases, Ballasts, And Paving			32 10
Paving Specialties			32 17

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 17 26 00-0008	SF	>15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT).....	45.60	8.16
Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.				

32 18 Athletic And Recreational Surfacing (32 10)

32 18 16 Synthetic Resilient Surfacing (32 18)

32 18 16 13 Playground Protective Surfacing (32 18 16)

32 18 16 13-0001 Tile Playground Surface Material (32 18 16 13)

Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.

32 18 16 13-0002	SF	1-3/4" Thick, Resilient Rubber Tile.....	13.06	1.85
For Manufacturer's Standard Colors, Add			0.67	
For Interlocking Tiles, Add			1.50	
For Mechanically Fastened, Add			1.51	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	
32 18 16 13-0003	SF	2" Thick, Resilient Rubber Tile.....	13.40	1.97
For Manufacturer's Standard Colors, Add			0.67	
For Interlocking Tiles, Add			1.50	
For Mechanically Fastened, Add			1.58	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	
32 18 16 13-0004	SF	2-1/4" Thick, Resilient Rubber Tile.....	14.10	2.20
For Manufacturer's Standard Colors, Add			0.67	
For Interlocking Tiles, Add			1.50	
For Mechanically Fastened, Add			1.72	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	
32 18 16 13-0005	SF	2-1/2" Thick, Resilient Rubber Tile.....	14.80	2.44
For Manufacturer's Standard Colors, Add			0.67	
For Interlocking Tiles, Add			1.50	
For Mechanically Fastened, Add			1.86	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	
32 18 16 13-0006	SF	2-3/4" Thick, Resilient Rubber Tile.....	16.46	2.67
For Manufacturer's Standard Colors, Add			0.51	
For Interlocking Tiles, Add			1.69	
For Mechanically Fastened, Add			2.00	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	
32 18 16 13-0007	SF	3" Thick, Resilient Rubber Tile.....	17.23	2.92
For Manufacturer's Standard Colors, Add			0.51	
For Interlocking Tiles, Add			1.69	
For Mechanically Fastened, Add			2.15	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	
32 18 16 13-0008	SF	3-1/4" Thick, Resilient Rubber Tile.....	18.03	3.19
For Manufacturer's Standard Colors, Add			0.51	
For Interlocking Tiles, Add			1.69	
For Mechanically Fastened, Add			2.31	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	
32 18 16 13-0009	SF	3-1/2" Thick, Resilient Rubber Tile.....	19.74	3.41
For Manufacturer's Standard Colors, Add			0.28	
For Interlocking Tiles, Add			1.89	
For Mechanically Fastened, Add			2.46	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	
32 18 16 13-0010	SF	3-3/4" Thick, Resilient Rubber Tile.....	20.44	3.69
For Manufacturer's Standard Colors, Add			0.28	
For Interlocking Tiles, Add			1.89	
For Mechanically Fastened, Add			2.60	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	
32 18 16 13-0011	SF	4" Thick, Resilient Rubber Tile.....	21.20	3.89
For Manufacturer's Standard Colors, Add			0.28	
For Interlocking Tiles, Add			1.89	
For Mechanically Fastened, Add			2.75	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	
32 18 16 13-0012	SF	4-1/2" Thick, Resilient Rubber Tile.....	24.28	4.39
For Manufacturer's Standard Colors, Add			0.28	
For Interlocking Tiles, Add			2.21	
For Mechanically Fastened, Add			3.04	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add			1.50	

32 18 16 13-0013 Loose Laid Playground Surface Material (32 18 16 13)

Note: Excludes sub base.

32 18 16 13-0014	SF	3" Loose Laid Wood Fiber Safety Surface.....	1.22	0.28
32 18 16 13-0015	SF	6" Loose Laid Wood Fiber Safety Surface.....	1.60	0.35
32 18 16 13-0016	SF	9" Loose Laid Wood Fiber Safety Surface.....	2.01	0.42
32 18 16 13-0017	SF	12" Loose Laid Wood Fiber Safety Surface.....	2.85	0.63
32 18 16 13-0018	SF	3" Loose Laid Synthetic Fiber Safety Surface.....	2.41	0.28
32 18 16 13-0019	SF	6" Loose Laid Synthetic Fiber Safety Surface.....	2.98	0.35
32 18 16 13-0020	SF	9" Loose Laid Synthetic Fiber Safety Surface.....	4.71	0.42
32 18 16 13-0021	SF	12" Loose Laid Synthetic Fiber Safety Surface.....	5.80	0.63
32 18 16 13-0022	SF	8" FIBAR System.....	9.61	1.04
Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.				
32 18 16 13-0023	SF	12" FIBAR System.....	12.17	1.39
Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.				

32 Exterior Improvements
32 10 Bases, Ballasts, And Paving
32 18 Athletic And Recreational Surfacing



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 18 16 13-0024	Poured In Place Playground Surfacing ^(32 18 16 13) Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.				
32 18 16 13-0025	SF Up To 4' Critical Fall Height (1-3/4") Poured In Place Rubber Playground Surfacing	11.52		2.13	
	For Up To 2,000, Add	2.73			
	For >2,000 To 3,000, Add	1.91			
	For >3,000 To 4,000, Add	1.29			
	For >4,000 To 5,000, Add	0.82			
	For >5,000 To 7,000, Add	0.34			
	For Aliphatic (Non Yellowing) Binder, Add	2.34			
	For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31			
32 18 16 13-0026	SF 5' Critical Fall Height (2") Poured In Place Rubber Playground Surfacing	11.88		2.36	
	For Up To 2,000, Add	2.81			
	For >2,000 To 3,000, Add	1.97			
	For >3,000 To 4,000, Add	1.33			
	For >4,000 To 5,000, Add	0.85			
	For >5,000 To 7,000, Add	0.35			
	For Aliphatic (Non Yellowing) Binder, Add	2.34			
	For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31			
32 18 16 13-0027	SF 6' Critical Fall Height (2-1/2") Poured In Place Rubber Playground Surfacing	12.82		2.70	
	For Up To 2,000, Add	3.03			
	For >2,000 To 3,000, Add	2.12			
	For >3,000 To 4,000, Add	1.44			
	For >4,000 To 5,000, Add	0.92			
	For >5,000 To 7,000, Add	0.38			
	For Aliphatic (Non Yellowing) Binder, Add	2.34			
	For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31			
32 18 16 13-0028	SF 7' Critical Fall Height (3") Poured In Place Rubber Playground Surfacing	13.85		2.87	
	For Up To 2,000, Add	3.28			
	For >2,000 To 3,000, Add	2.30			
	For >3,000 To 4,000, Add	1.55			
	For >4,000 To 5,000, Add	0.99			
	For >5,000 To 7,000, Add	0.41			
	For Aliphatic (Non Yellowing) Binder, Add	2.34			
	For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31			
32 18 16 13-0029	SF 8' Critical Fall Height (3-1/2") Poured In Place Rubber Playground Surfacing	14.88		3.01	
	For Up To 2,000, Add	3.52			
	For >2,000 To 3,000, Add	2.47			
	For >3,000 To 4,000, Add	1.67			
	For >4,000 To 5,000, Add	1.06			
	For >5,000 To 7,000, Add	0.44			
	For Aliphatic (Non Yellowing) Binder, Add	2.34			
	For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31			
32 18 16 13-0030	SF 9' Critical Fall Height (4") Poured In Place Rubber Playground Surfacing	15.75		3.18	
	For Up To 2,000, Add	3.73			
	For >2,000 To 3,000, Add	2.61			
	For >3,000 To 4,000, Add	1.77			
	For >4,000 To 5,000, Add	1.13			
	For >5,000 To 7,000, Add	0.46			
	For Aliphatic (Non Yellowing) Binder, Add	2.34			
	For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31			
32 18 16 13-0031	SF 10' Critical Fall Height (4-1/2") Poured In Place Rubber Playground Surfacing	16.79		3.36	
	For Up To 2,000, Add	3.97			
	For >2,000 To 3,000, Add	2.78			
	For >3,000 To 4,000, Add	1.88			
	For >4,000 To 5,000, Add	1.20			
	For >5,000 To 7,000, Add	0.49			
	For Aliphatic (Non Yellowing) Binder, Add	2.34			
	For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31			
32 18 16 13-0032	SF 12' Critical Fall Height (5-1/2") Poured In Place Rubber Playground Surfacing	18.82		3.77	
	For Up To 2,000, Add	4.45			
	For >2,000 To 3,000, Add	3.12			
	For >3,000 To 4,000, Add	2.11			
	For >4,000 To 5,000, Add	1.34			
	For >5,000 To 7,000, Add	0.55			
	For Aliphatic (Non Yellowing) Binder, Add	2.34			
	For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31			
32 18 16 13-0033	SF Top Only (1/2") Poured In Place Playground Surfacing	7.52			
	Note: Not used with new surfacing system tasks.				
	For Up To 2,000, Add	2.73			
	For >2,000 To 3,000, Add	1.75			
	For >3,000 To 4,000, Add	1.06			
	For >4,000 To 5,000, Add	0.64			
	For >5,000 To 7,000, Add	0.29			
	For Aliphatic (Non Yellowing) Binder, Add	2.34			
	For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31			
32 18 16 13-0034	EA Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing	2,091.98			

32 18 23 Athletic Surfacing ^(32 18)

32 18 23 13 Baseball Field Surfacing ^(32 18 23)

32 18 23 13-0001 Clay Infield Maintenance ^(32 18 23 13)

32 18 23 13-0002 MSF Playing Field Maintenance (Clay - Nail Drag) 9.01



Exterior Improvements			32
Bases, Ballasts, And Paving			32 10
Athletic And Recreational Surfacing			32 18

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 13-0003 MSF Playing Field Maintenance (Clay - Screen Drag).....	9.01	
32 18 23 13-0004 CY Playing Field Maintenance Of Clay.....	71.55	
32 18 23 23 Field Sport Surfacing (32 18 23)		
32 18 23 23-0001 Turf Field Maintenance (32 18 23 23)		
32 18 23 23-0002 ACR Turf Aeration (Minimum 6" Penetration).....	121.22	
32 18 23 23-0003 MSF Top Dressing 1/8" - 1/4" Sand	11.41	
32 18 23 29 Synthetic Field Sport Surfacing (32 18 23)		
32 18 23 29-0001 Synthetic Turf (32 18 23 29)		
32 18 23 29-0002 Synthetic Turf (AstroTurf) (32 18 23 29-0001)		
Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0003 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) (32 18 23 29-0002)		
32 18 23 29-0004 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) (32 18 23 29-0003)		
32 18 23 29-0005 SF 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38)	4.26	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0006 EA Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields.....	15,043.68	
32 18 23 29-0007 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields.....	12,262.02	
32 18 23 29-0008 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields.....	3,689.96	
Note: Per sport.		
32 18 23 29-0009 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields	1,362.45	
Note: Per letter. Excludes outline.		
32 18 23 29-0010 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 38 Fields.....	1,305.68	
Note: Per endzone.		
32 18 23 29-0011 EA Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields	11,353.72	
Note: Block letter.		
32 18 23 29-0012 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields	16,462.89	
Note: Graphic.		
32 18 23 29-0013 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) (32 18 23 29-0003)		
32 18 23 29-0014 SF 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41)	4.85	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0015 EA Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields.....	15,327.61	
32 18 23 29-0016 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields.....	12,716.24	
32 18 23 29-0017 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields.....	3,973.83	
Note: Per sport.		
32 18 23 29-0018 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields	1,475.99	
Note: Per letter. Excludes outline.		
32 18 23 29-0019 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 41 Fields.....	1,362.45	
Note: Per endzone.		
32 18 23 29-0020 EA Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields	11,921.48	
Note: Block letter.		
32 18 23 29-0021 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields	17,286.14	
Note: Graphic.		
32 18 23 29-0022 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) (32 18 23 29-0003)		
32 18 23 29-0023 SF 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45)	4.97	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0024 EA Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	15,611.46	
32 18 23 29-0025 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	13,738.08	
32 18 23 29-0026 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	4,257.67	
Note: Per sport.		
32 18 23 29-0027 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields	1,589.53	
Note: Per letter. Excludes outline.		
32 18 23 29-0028 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 45 Fields.....	1,419.22	
Note: Per endzone.		
32 18 23 29-0029 EA Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields	12,489.17	
Note: Block letter.		

32	Exterior Improvements
32 10	Bases, Ballasts, And Paving
32 18	Athletic And Recreational Surfacing



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0030	EA	Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields Note: Graphic.	18,109.29	
32 18 23 29-0031		Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) (32 18 23 29-0002)		
32 18 23 29-0032		52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) (32 18 23 29-0031)		
32 18 23 29-0033	SF	52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52) For Ambient Rubber And Sand Infill, Add For Cryo Rubber Infill, Add For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add For Cryo Rubber And Sand Infill, Add	5.78 0.10 0.20 0.25 0.30	
32 18 23 29-0034	EA	Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	16,179.05	
32 18 23 29-0035	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	17,257.65	
32 18 23 29-0036	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Per sport.	4,825.33	
32 18 23 29-0037	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Per letter. Excludes outline.	1,816.60	
32 18 23 29-0038	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Per endzone.	1,532.75	
32 18 23 29-0039	EA	Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Block letter.	13,624.46	
32 18 23 29-0040	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields Note: Graphic.	19,755.47	
32 18 23 29-0041		60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) (32 18 23 29-0031)		
32 18 23 29-0042	SF	60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60) For Ambient Rubber And Sand Infill, Add For Cryo Rubber Infill, Add For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add For Cryo Rubber And Sand Infill, Add	6.03 0.10 0.20 0.25 0.30	
32 18 23 29-0043	EA	Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	16,462.89	
32 18 23 29-0044	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	19,187.79	
32 18 23 29-0045	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Per sport.	5,109.17	
32 18 23 29-0046	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Per letter. Excludes outline.	1,930.13	
32 18 23 29-0047	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Per endzone.	1,589.52	
32 18 23 29-0048	EA	Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Block letter.	14,192.15	
32 18 23 29-0049	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields Note: Graphic.	20,578.62	
32 18 23 29-0050		52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) (32 18 23 29-0031)		
32 18 23 29-0051	SF	52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52) For Ambient Rubber And Sand Infill, Add For Cryo Rubber Infill, Add For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add For Cryo Rubber And Sand Infill, Add	6.05 0.10 0.20 0.25 0.30	
32 18 23 29-0052	EA	Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	16,746.74	
32 18 23 29-0053	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	19,301.32	
32 18 23 29-0054	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields Note: Per sport.	5,393.02	
32 18 23 29-0055	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields..... Note: Per letter. Excludes outline.	2,043.67	
32 18 23 29-0056	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3D 52 Fields Note: Per endzone.	1,646.29	
32 18 23 29-0057	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields..... Note: Block letter.	14,759.84	
32 18 23 29-0058	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields..... Note: Graphic.	21,401.76	
32 18 23 29-0059		60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) (32 18 23 29-0031)		
32 18 23 29-0060	SF	60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60) For Ambient Rubber And Sand Infill, Add For Cryo Rubber Infill, Add For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add For Cryo Rubber And Sand Infill, Add	6.20 0.10 0.20 0.25 0.30	
32 18 23 29-0061	EA	Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	17,030.58	



Exterior Improvements			32
Bases, Ballasts, And Paving			32 10
Athletic And Recreational Surfacing			32 18

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0062 EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	20,550.23	
32 18 23 29-0063 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	5,676.86	
Note: Per sport.		
32 18 23 29-0064 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields.....	2,270.74	
Note: Per letter. Excludes outline.		
32 18 23 29-0065 EA Colored Endzone For AstroTurf® GameDay Grass™ 3D 60 Fields.....	1,703.06	
Note: Per endzone.		
32 18 23 29-0066 EA Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	15,327.52	
Note: Block letter.		
32 18 23 29-0067 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	22,224.91	
Note: Graphic.		
32 18 23 29-0068 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) (32 18 23 29-0002)		
32 18 23 29-0069 38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38) (32 18 23 29-0068)		
32 18 23 29-0070 SF 38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38)	4.59	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0071 EA Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	14,476.08	
32 18 23 29-0072 EA Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	10,672.56	
32 18 23 29-0073 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	3,122.29	
Note: Per sport.		
32 18 23 29-0074 EA Endzone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields.....	1,135.38	
Note: Per letter. Excludes outline.		
32 18 23 29-0075 EA Colored Endzone For AstroTurf® GameDay Grass™ XPe 38 Fields.....	1,192.15	
Note: Per endzone.		
32 18 23 29-0076 EA Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	10,218.41	
Note: Block letter.		
32 18 23 29-0077 EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	14,816.69	
Note: Graphic.		
32 18 23 29-0078 42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) (32 18 23 29-0068)		
32 18 23 29-0079 SF 42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42)	4.07	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0080 EA Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	14,759.84	
32 18 23 29-0081 EA Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	11,353.72	
32 18 23 29-0082 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	3,406.12	
Note: Per sport.		
32 18 23 29-0083 EA Endzone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields.....	1,248.91	
Note: Per letter. Excludes outline.		
32 18 23 29-0084 EA Colored Endzone For AstroTurf® GameDay Grass™ XPe 42 Fields.....	1,248.91	
Note: Per endzone.		
32 18 23 29-0085 EA Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields.....	10,786.03	
Note: Block letter.		
32 18 23 29-0086 EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields.....	15,639.75	
Note: Graphic.		
32 18 23 29-0087 Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) (32 18 23 29-0002)		
32 18 23 29-0088 SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®).....	9.55	
32 18 23 29-0089 SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®)	8.39	
32 18 23 29-0090 EA Football Markings For AstroTurf® PureGrass® Fields	28,011.60	
32 18 23 29-0091 EA Baseball Markings For AstroTurf® PureGrass® Fields	33,278.74	
32 18 23 29-0092 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields.....	8,140.12	
Note: Per sport.		
32 18 23 29-0093 EA Endzone Lettering For AstroTurf® PureGrass® Fields.....	3,112.40	
Note: Per letter. Excludes outline.		
32 18 23 29-0094 EA Colored Endzone For AstroTurf® PureGrass® Fields	2,310.24	
Note: Per endzone.		
32 18 23 29-0095 EA Simple Logo For AstroTurf® PureGrass® Fields.....	20,792.12	
Note: Block letter.		
32 18 23 29-0096 EA Deluxe Logo For AstroTurf® PureGrass® Fields	30,525.46	
Note: Graphic.		
32 18 23 29-0097 Synthetic Turf (G9 Turf) (32 18 23 29-0001)		
Note: Includes labor, equipment and material required to install the task.		

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 18 Athletic And Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0098 SF 2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf) 5.96 Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.		
For >35,000, Deduct	-0.55	
32 18 23 29-0099 SF 2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf) 5.90 Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.		
For >35,000, Deduct	-0.54	
32 18 23 29-0100 SF 1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf) 6.15 Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.		
32 18 23 29-0101 EA Football Inlays For G9 Synthetic Turf 38,722.98 Note: Includes field grid, numbers, arrows, coach's box and kick off lines.		
32 18 23 29-0102 EA Soccer Inlays For G9 Synthetic Turf 16,779.96		
32 18 23 29-0103 EA Boys Lacrosse Inlays For G9 Synthetic Turf 16,779.96		
32 18 23 29-0104 EA Girls Lacrosse Inlays For G9 Synthetic Turf 16,779.96		
32 18 23 29-0105 EA Field Hockey Inlays For G9 Synthetic Turf 16,779.96		
32 18 23 29-0106 EA Endzone Lettering For G9 Synthetic Turf 1,936.15 Note: Priced per letter. Includes single color outlining.		
32 18 23 29-0107 SF Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf 1.81		
32 18 23 29-0108 SF Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf 4.73		
32 18 23 29-0109 SF Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf 1.35		
32 18 23 29-0110 SF Sand Infill For G9 Synthetic Turf 0.68		
32 18 23 29-0111 SF Acrylic Coated Sand Infill For G9 Synthetic Turf 1.12		
32 18 23 29-0112 EA Gmax Compaction And Hardness Test For G9 Synthetic Turf 1,290.77 Note: Includes a comprehensive report.		
32 18 23 29-0113 EA Safety Bridge Over Track For G9 Synthetic Turf 12,907.66		
32 18 23 29-0114 SF Clean And Groom Synthetic Turf 0.42 Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.		
For >10,000 To 30,000, Deduct	-0.17	
For >30,000 To 60,000, Deduct	-0.29	
For >60,000, Deduct	-0.32	
32 18 23 29-0115 SF Rejuvenate Synthetic Turf And Reinstall Existing Infill 2.89 Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.		
32 18 23 29-0116 SF Rejuvenate Synthetic Turf For Installation Of New Infill 3.22 Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.		
32 18 23 29-0117 SF Drainage Layer For G9 Synthetic Turf 2.64 Note: Used for drainage over asphalt or on roof tops.		
32 18 23 29-0118 SF 15 mm, Shock Pad For G9 Synthetic Turf 1.62 Note: Used for additional Gmax for a stone base field.		
32 18 23 29-0119 EA Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf 2,572.40 Note: Includes field inspection and report.		
32 18 23 29-0120 LF Repair Inlay Lines Or Seams On G9 Synthetic Turf 7.07 Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.		
32 18 23 29-0121 LF Nailer Used To Attach G9 Synthetic Turf 2.83		
32 18 23 29-0122 SF Removal And Recycling Of Existing Field 1.99 Note: Includes removal, shipping and recycling of infill, fibers and backing.		
32 18 23 33 Running Track Surfacing (32 18 23)		
32 18 23 33-0001 Running Track Surfacing (32 18 23 33)		
32 18 23 33-0002 SY 2-1/2" Asphaltic Concrete Running Track Surfacing 27.20		
32 18 23 33-0003 Running Track Seal And Colored Surfaces (32 18 23 33)		
32 18 23 33-0004 SY 1 Seal Coat, Striping Of Track 16.00 Note: Includes certification.		
32 18 23 39 Synthetic Running Track Surfacing (32 18 23)		
32 18 23 39-0001 Synthetic Running Track Surfacing (XPLODE™) (32 18 23 39) Note: Excludes asphalt base. Includes striping.		
32 18 23 39-0002 SY Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing (XPLODE™ M100) 40.48 For >5,500, Deduct -4.45 For Up To 4,000, Add 14.17		5.31
32 18 23 39-0003 SY Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing (XPLODE™ MS200) 54.33 For >5,500, Deduct -5.98 For Up To 4,000, Add 19.02 For Custom Color Upgrade, Add 5.16 For Aliphatic Top Coating, Add 9.78		5.31



Exterior Improvements			32	32
Bases, Ballasts, And Paving			32 10	
Athletic And Recreational Surfacing			32 18	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 39-0004	SY		Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing (XPLODE™ MSX500)	91.30	5.31
			For >5,500, Deduct	-5.48	
			For Up To 4,000, Add	31.96	
			For Custom Color Upgrade, Add	7.03	
			For Aliphatic Top Coating, Add	13.06	
32 18 23 39-0005	SY		Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing (XPLODE™ MSX500).....	117.93	5.31
			For >5,500, Deduct	-7.08	
			For Up To 4,000, Add	41.28	
			For Custom Color Upgrade, Add	9.20	
			For Aliphatic Top Coating, Add	13.44	
32 18 23 39-0006	SY		Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Lightning)	36.87	
			For >5,500, Deduct	-4.06	
			For Up To 4,000, Add	12.90	
32 18 23 39-0007	SY		Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Accelerator).....	41.50	
			For >5,500, Deduct	-6.02	
			For Up To 4,000, Add	14.53	
32 18 23 39-0008	SY		Spray Retop XPLODE™ M100/MS200 Running Tracks	36.46	
			For Up To 4,000, Add	12.76	
			For >5,500, Deduct	-3.57	
32 18 23 39-0009	SY		Sandwich Retop XPLODE™ MSX500 Running Tracks.....	70.57	
			For Up To 4,000, Add	24.70	
			For >5,500, Deduct	-7.44	
32 18 23 39-0010	SY		Retop XPLODE™ Plexitrac® Lightning Running Tracks	20.52	
			Note: Two layers.		
			For Up To 4,000, Add	7.18	
			For >5,500, Deduct	-3.39	
32 18 23 39-0011	SY		Retop XPLODE™ Plexitrac® Accelerator Running Tracks.....	24.99	
			Note: Two layers.		
			For Up To 4,000, Add	8.75	
			For >5,500, Deduct	-3.39	
32 18 23 39-0012	EA		Restripe XPLODE™ Running Track	8,484.44	
			Note: Includes two coats of acrylic resurfacer and two coats of color.		
			For College Track Restriping, Add	1,542.62	

32 18 23 53 Tennis Court Surfacing (32 18 23)

32 18 23 53-0001			Tennis Court Surfacing (32 18 23 53) See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002	SY		Tennis Court Bituminous Pavement, 2-1/2" Thick.....	29.41	
32 18 23 53-0003			Tennis Court Markings (32 18 23 53)		
32 18 23 53-0004	EA		Paint Markings On Asphalt Tennis Court 2 Coats.....	423.03	

32 18 23 56 Natural Tennis Court Surfacing (32 18 23)

32 18 23 56-0001	SY		Clay Tennis Court	41.63	
32 18 23 56-0002	SY		Tennis Court, Pulverized Natural Greenstone, Fast Dry.....	46.34	
			Note: Includes 4" base.		
32 18 23 56-0003	SY		Tennis Court, Rubber-Cork Base Resilient Pavement.....	17.61	
32 18 23 56-0004	SY		Resurface Clay Tennis Court.....	11.97	
32 18 23 56-0005	SY		Resurface Tennis Court, Pulverized Natural Greenstone	10.11	
32 18 23 56-0006	SY		Resurface Tennis Court, Resilient Pavement	6.71	

32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing (32 18 23)

32 18 23 61-0001			100% Acrylic Athletic Surfacing System (California Products Plexipave®) (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002			Surface Preparation For Athletic Surfacing System (California Products Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0003	SY		100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat.....	1.21	
			Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
32 18 23 61-0004	SY		Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat.....	0.66	
			Note: For previously uncoated portland cement concrete. Applied with broom.		
32 18 23 61-0005	SY		Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat.....	1.70	
			Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.		
32 18 23 61-0006	SY		Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat.....	68.81	
			Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.		

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 18 Athletic And Recreational Surfacing**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 61-0007			Surface Coatings For Athletic Surfacing System (California Products Plexipave®) (32 18 23 61-0001) Note: Standard colors include dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	2.48	
			For Pacific Blue, Add	0.14	
			For US Open Blue, Add	0.48	
32 18 23 61-0009	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	2.02	
			For Pacific Blue, Add	0.10	
			For US Open Blue, Add	0.34	
32 18 23 61-0010	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat..... Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee.	1.76	
			For Pacific Blue, Add	0.08	
			For US Open Blue, Add	0.27	
32 18 23 61-0011	SY		Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat..... Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom.	1.86	
			For Pacific Blue, Add	0.04	
			For US Open Or Australian Open Blue, Add	0.31	
			For Pro Purple, Add	0.80	
32 18 23 61-0012			Line Striping For Athletic Surfacing System (California Products Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0013	SY		Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®)..... Note: Textured or non-textured highly reflective line marking paint.	1.16	
32 18 23 61-0014			Cushion Coatings For Athletic Surfacing System (California Products Plexipave® Plexicushion®) (32 18 23 61-0001)		
32 18 23 61-0015	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat..... Note: Applied with rubber squeegee.	4.07	
32 18 23 61-0016	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat..... Note: Applied with rubber squeegee.	5.57	
32 18 23 61-0017	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat..... Note: Price per coat for third or additional coats. Applied with rubber squeegee.	4.78	
32 18 23 61-0018	SY		Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat..... Note: Applied with rubber squeegee.	3.58	
32 18 23 61-0019	SY		Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat..... Note: Price per coat for second or additional coats. Applied with rubber squeegee.	2.72	
32 30			Site Improvements (32)		
32 31			Fences And Gates (32 30)		
32 31 11			Gate Operators (32 31)		
32 31 11 00-0001			Gate Operators (32 31 11) Note: Excludes gates, electrical connections, access controls and concrete foundation.		
32 31 11 00-0002			Swing Gate Actuator (32 31 11 00-0001)		
32 31 11 00-0003			Single Gate, Swing Gate Actuator (32 31 11 00-0002)		
32 31 11 00-0004	EA		Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)	1,074.46	169.75
32 31 11 00-0005	EA		Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)	1,392.93	169.75
			Note: Includes one primary operator with a 14' wide gate capacity.		
32 31 11 00-0006			Dual Gate, Swing Gate Actuator (32 31 11 00-0002)		
32 31 11 00-0007	EA		Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)	2,148.92	339.52
			Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.		
32 31 11 00-0008	EA		Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)	2,785.87	339.52
			Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.		
32 31 11 00-0009			Swing Gate Operators (32 31 11 00-0001)		
32 31 11 00-0010			Single Gate, Swing Gate Operators (32 31 11 00-0009)		



Exterior Improvements			32	32
Site Improvements			32 30	
Fences And Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0011	EA		400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050).....	2,070.71	169.75
			Note: Includes one primary operator with a 10' wide and 400# gate capacity.		
32 31 11 00-0012	EA		500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100).....	2,242.20	169.75
			Note: Includes one primary operator with a 14' wide and 500# gate capacity.		
32 31 11 00-0013	EA		700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	3,001.64	169.75
			Note: Includes one primary operator with an 18' wide and 700# gate capacity.		
			For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0014	EA		800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	3,385.44	169.75
			Note: Includes one primary operator with a 22' wide and 800# gate capacity.		
			For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0015			Dual Gate, Swing Gate Operators (32 31 11 00-0009)		
32 31 11 00-0016	EA		400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050).....	3,692.29	339.52
			Note: Includes one primary and one secondary operator each with a 10' wide and 400# gate capacity.		
32 31 11 00-0017	EA		500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100).....	4,035.27	339.52
			Note: Includes one primary and one secondary operator each with a 14' wide and 500# gate capacity.		
32 31 11 00-0018	EA		700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	5,545.98	339.52
			Note: Includes one primary and one secondary operator each with an 18' wide and 700# gate capacity.		
			For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0019	EA		800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	6,387.07	339.52
			Note: Includes one primary and one secondary operator each with a 22' wide and 800# gate capacity.		
			For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0020			Sliding Gate Operators (32 31 11 00-0001)		
			Note: Includes 20' of chain. See CSI section 32 31 11 00-0029 for additional chain over 20'.		
32 31 11 00-0021	EA		300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050).....	1,686.91	169.75
			Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0022	EA		1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100).....	2,367.27	203.71
			Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0023	EA		1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150).....	2,938.89	203.71
			Note: Includes operator, chain brackets, hardware and 20' of #40 chain.		
32 31 11 00-0024	EA		3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210).....	3,843.80	237.66
			Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0025	EA		2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220).....	4,725.72	237.66
			Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0026	EA		5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230).....	6,459.50	271.61
			Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0027	EA		5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530).....	10,832.39	271.61
			Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0028	EA		10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550).....	18,396.68	305.57
			Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0029			Accessories For Gate Actuators And Operators (32 31 11 00-0001)		
32 31 11 00-0030	EA		Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410).....	400.57	
32 31 11 00-0031	EA		Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409).....	783.99	
32 31 11 00-0032	EA		Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	462.45	
32 31 11 00-0033	EA		Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	522.18	
32 31 11 00-0034	EA		Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	473.19	
32 31 11 00-0035	EA		Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310).....	354.78	
32 31 11 00-0036	LF		#40 Chain For Sliding Gate Operators.....	5.99	
32 31 11 00-0037	LF		#41 Chain For Sliding Gate Operators.....	4.76	
32 31 11 00-0038	LF		#50 Chain For Sliding Gate Operators.....	6.67	
32 31 11 00-0039	LF		#60 Chain For Sliding Gate Operators.....	6.33	
32 31 13			Chain Link Fences And Gates (32 31)		
32 31 13 13			Chain Link Fences And Gates (32 31 13)		
32 31 13 13-0001			Post Holes (32 31 13 13)		
			Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0070 for core drilling in concrete, 02 41 19 13-0208 for core drilling in asphalt.		
32 31 13 13-0002			Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)		
32 31 13 13-0003	VLF		Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	7.44	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0004 VLF 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	8.36	
32 31 13 13-0005 VLF 3" Diameter Hole, Auger By Machine Fence Post Hole In Soil	9.92	
32 31 13 13-0006 VLF 4" Diameter Hole, Auger By Machine Fence Post Hole In Soil	11.16	
32 31 13 13-0007 VLF 6" Diameter Hole, Auger By Machine Fence Post Hole In Soil	12.17	
32 31 13 13-0008 VLF 8" Diameter Hole, Auger By Machine Fence Post Hole In Soil	13.38	
32 31 13 13-0009 VLF 10" Diameter Hole, Auger By Machine Fence Post Hole In Soil	14.87	
32 31 13 13-0010 VLF 12" Diameter Hole, Auger By Machine Fence Post Hole In Soil	16.73	
32 31 13 13-0011 VLF 18" Diameter Hole, Auger By Machine Fence Post Hole In Soil	19.12	
32 31 13 13-0012 VLF 24" Diameter Hole, Auger By Machine Fence Post Hole In Soil	22.31	
32 31 13 13-0013 VLF 30" Diameter Hole, Auger By Machine Fence Post Hole In Soil	26.78	
32 31 13 13-0014 VLF 36" Diameter Hole, Auger By Machine Fence Post Hole In Soil	33.47	
32 31 13 13-0015 Post Hole In Rock (32 31 13 13-0001)		
32 31 13 13-0016 CF Jackhammer Post Hole In Rock	56.15	
32 31 13 13-0017 CF Rock Drill Post Hole In Rock	16.84	
32 31 13 13-0018 Fill For Post Holes (32 31 13 13-0001) See CSI section 03 21 00 00-0000 for reinforcing steel.		
32 31 13 13-0019 Concrete Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0020 VLF Up To 2-1/2" Diameter, Concrete Fill For Post Hole	4.90	
32 31 13 13-0021 VLF 2-1/2" Diameter, Concrete Fill For Post Hole	6.27	
32 31 13 13-0022 VLF 3" Diameter, Concrete Fill For Post Hole	6.96	
32 31 13 13-0023 VLF 4" Diameter, Concrete Fill For Post Hole	8.10	
32 31 13 13-0024 VLF 6" Diameter, Concrete Fill For Post Hole	11.51	
32 31 13 13-0025 VLF 8" Diameter, Concrete Fill For Post Hole	15.36	
32 31 13 13-0026 VLF 10" Diameter, Concrete Fill For Post Hole	18.82	
32 31 13 13-0027 VLF 12" Diameter, Concrete Fill For Post Hole	22.02	
32 31 13 13-0028 VLF 18" Diameter, Concrete Fill For Post Hole	30.33	
32 31 13 13-0029 VLF 24" Diameter, Concrete Fill For Post Hole	37.96	
32 31 13 13-0030 VLF 30" Diameter, Concrete Fill For Post Hole	45.42	
32 31 13 13-0031 VLF 36" Diameter, Concrete Fill For Post Hole	53.23	
32 31 13 13-0032 Grout Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0033 VLF Up To 2-1/2" Diameter, Grout Fill For Post Hole	5.70	
32 31 13 13-0034 VLF 2-1/2" Diameter, Grout Fill For Post Hole	7.33	
32 31 13 13-0035 VLF 3" Diameter, Grout Fill For Post Hole	8.04	
32 31 13 13-0036 VLF 4" Diameter, Grout Fill For Post Hole	9.15	
32 31 13 13-0037 VLF 6" Diameter, Grout Fill For Post Hole	12.85	
32 31 13 13-0038 VLF 8" Diameter, Grout Fill For Post Hole	17.15	
32 31 13 13-0039 VLF 10" Diameter, Grout Fill For Post Hole	20.94	
32 31 13 13-0040 VLF 12" Diameter, Grout Fill For Post Hole	24.39	
32 31 13 13-0041 VLF 18" Diameter, Grout Fill For Post Hole	32.98	
32 31 13 13-0042 VLF 24" Diameter, Grout Fill For Post Hole	40.65	
32 31 13 13-0043 VLF 30" Diameter, Grout Fill For Post Hole	48.13	
32 31 13 13-0044 VLF 36" Diameter, Grout Fill For Post Hole	55.85	
32 31 13 13-0045 Compacted Earth Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0046 VLF Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole	3.77	
32 31 13 13-0047 VLF 2-1/2" Diameter, Compacted Earth Fill For Post Hole	4.92	
32 31 13 13-0048 VLF 3" Diameter, Compacted Earth Fill For Post Hole	5.15	
32 31 13 13-0049 VLF 4" Diameter, Compacted Earth Fill For Post Hole	5.30	
32 31 13 13-0050 VLF 6" Diameter, Compacted Earth Fill For Post Hole	7.07	
32 31 13 13-0051 VLF 8" Diameter, Compacted Earth Fill For Post Hole	9.43	
32 31 13 13-0052 VLF 10" Diameter, Compacted Earth Fill For Post Hole	11.31	
32 31 13 13-0053 VLF 12" Diameter, Compacted Earth Fill For Post Hole	12.83	
32 31 13 13-0054 VLF 18" Diameter, Compacted Earth Fill For Post Hole	15.63	
32 31 13 13-0055 VLF 24" Diameter, Compacted Earth Fill For Post Hole	17.54	
32 31 13 13-0056 VLF 30" Diameter, Compacted Earth Fill For Post Hole	19.24	
32 31 13 13-0057 VLF 36" Diameter, Compacted Earth Fill For Post Hole	20.75	
32 31 13 13-0058 Fence Posts (32 31 13 13) Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0059 Fence Posts (32 31 13 13-0058)		
32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel (32 31 13 13-0059) Note: Includes cap and accessories.		
32 31 13 13-0061 LF 1-7/8" Galvanized H-beam Post, Up To 6' In Length	8.73	2.50
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0062 LF 1-7/8" Galvanized H-beam Post, 7' To 10' In Length	8.02	2.13
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0063 LF 1-7/8" Galvanized H-beam Post, 11' To 15' In Length	7.15	1.76
For Each Top Rail Fitting, Add	0.85	



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0064	LF		1-7/8" Galvanized H-beam Post, 16' To 20' In Length	6.46	1.39
			For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0065	LF		1-7/8" Galvanized H-beam Post, 21' To 24' In Length	5.99	1.20
			For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0066	LF		1-7/8" Galvanized H-beam Post, >24' In Length	5.27	0.84
			For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0067 Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) (32 31 13 13-0059)					
Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.					
32 31 13 13-0068	LF		1-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	6.69	2.31
			For Each Top Rail Fitting, Add	0.85	
			For Each Single Barbed Wire Arm, Add	1.90	
			For Each Double Barbed Wire Arm, Add	3.40	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	0.52	
			For Vinyl Coated, Add	1.24	
			For Powder Coated, Add	1.65	
			For Aluminum Coated, Add	2.58	
			For Schedule 20, Deduct	-0.41	
			For Schedule 80, Add	1.45	
32 31 13 13-0069	LF		1-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	5.97	1.95
			For Each Top Rail Fitting, Add	0.85	
			For Each Single Barbed Wire Arm, Add	1.90	
			For Each Double Barbed Wire Arm, Add	3.40	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	0.52	
			For Vinyl Coated, Add	1.24	
			For Powder Coated, Add	1.65	
			For Aluminum Coated, Add	2.58	
			For Schedule 20, Deduct	-0.41	
			For Schedule 80, Add	1.38	
32 31 13 13-0070	LF		1-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	5.18	1.58
			For Each Top Rail Fitting, Add	0.85	
			For Each Single Barbed Wire Arm, Add	1.90	
			For Each Double Barbed Wire Arm, Add	3.40	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	0.52	
			For Vinyl Coated, Add	1.24	
			For Powder Coated, Add	1.65	
			For Aluminum Coated, Add	2.58	
			For Schedule 20, Deduct	-0.41	
			For Schedule 80, Add	1.30	
32 31 13 13-0071	LF		1-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	4.56	1.20
			For Each Top Rail Fitting, Add	0.85	
			For Each Single Barbed Wire Arm, Add	1.90	
			For Each Double Barbed Wire Arm, Add	3.40	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	0.52	
			For Vinyl Coated, Add	1.24	
			For Powder Coated, Add	1.65	
			For Aluminum Coated, Add	2.58	
			For Schedule 20, Deduct	-0.41	
			For Schedule 80, Add	1.24	
32 31 13 13-0072	LF		1-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	4.15	1.01
			For Each Top Rail Fitting, Add	0.85	
			For Each Single Barbed Wire Arm, Add	1.90	
			For Each Double Barbed Wire Arm, Add	3.40	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	0.52	
			For Vinyl Coated, Add	1.24	
			For Powder Coated, Add	1.65	
			For Aluminum Coated, Add	2.58	
			For Schedule 20, Deduct	-0.41	
			For Schedule 80, Add	1.20	
32 31 13 13-0073	LF		1-5/8" Outside Diameter Galvanized Steel Post, >24' In Length	3.69	0.84
			For Each Top Rail Fitting, Add	0.85	
			For Each Single Barbed Wire Arm, Add	1.90	
			For Each Double Barbed Wire Arm, Add	3.40	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	0.52	
			For Vinyl Coated, Add	1.24	
			For Powder Coated, Add	1.65	
			For Aluminum Coated, Add	2.58	
			For Schedule 20, Deduct	-0.41	
			For Schedule 80, Add	1.15	
32 31 13 13-0074 Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) (32 31 13 13-0059)					
Note: 2" outside diameter, Schedule 40. Includes cap and accessories.					
32 31 13 13-0075	LF		2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	7.30	2.41
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	0.63	
			For Vinyl Coated, Add	1.51	
			For Powder Coated, Add	2.01	
			For Aluminum Coated, Add	3.14	
			For Schedule 20, Deduct	-0.50	
			For Schedule 80, Add	1.68	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0076	LF	2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	6.65	2.04
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	0.63	
		For Vinyl Coated, Add	1.51	
		For Powder Coated, Add	2.01	
		For Aluminum Coated, Add	3.14	
		For Schedule 20, Deduct	-0.50	
		For Schedule 80, Add	1.62	
32 31 13 13-0077	LF	2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	5.82	1.66
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	0.63	
		For Vinyl Coated, Add	1.51	
		For Powder Coated, Add	2.01	
		For Aluminum Coated, Add	3.14	
		For Schedule 20, Deduct	-0.50	
		For Schedule 80, Add	1.54	
32 31 13 13-0078	LF	2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	5.15	1.30
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	0.63	
		For Vinyl Coated, Add	1.51	
		For Powder Coated, Add	2.01	
		For Aluminum Coated, Add	3.14	
		For Schedule 20, Deduct	-0.50	
		For Schedule 80, Add	1.47	
32 31 13 13-0079	LF	2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	4.71	1.11
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	0.63	
		For Vinyl Coated, Add	1.51	
		For Powder Coated, Add	2.01	
		For Aluminum Coated, Add	3.14	
		For Schedule 20, Deduct	-0.50	
		For Schedule 80, Add	1.42	
32 31 13 13-0080	LF	2" Outside Diameter Galvanized Steel Post, >24' In Length	4.31	0.93
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	0.63	
		For Vinyl Coated, Add	1.51	
		For Powder Coated, Add	2.01	
		For Aluminum Coated, Add	3.14	
		For Schedule 20, Deduct	-0.50	
		For Schedule 80, Add	1.38	
32 31 13 13-0081		Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) (32 31 13 13-0059)		
		Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0082	LF	2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	8.39	2.59
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	0.84	
		For Vinyl Coated, Add	2.00	
		For Powder Coated, Add	2.67	
		For Aluminum Coated, Add	4.18	
		For Schedule 20, Deduct	-0.67	
		For Schedule 80, Add	2.11	
32 31 13 13-0083	LF	2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	7.68	2.22
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	0.84	
		For Vinyl Coated, Add	2.00	
		For Powder Coated, Add	2.67	
		For Aluminum Coated, Add	4.18	
		For Schedule 20, Deduct	-0.67	
		For Schedule 80, Add	2.04	
32 31 13 13-0084	LF	2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	6.81	1.76
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	0.84	
		For Vinyl Coated, Add	2.00	
		For Powder Coated, Add	2.67	
		For Aluminum Coated, Add	4.18	
		For Schedule 20, Deduct	-0.67	
		For Schedule 80, Add	1.95	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0085	LF	2-1/2"	Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	6.12	1.39
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	0.84	
			For Vinyl Coated, Add	2.00	
			For Powder Coated, Add	2.67	
			For Aluminum Coated, Add	4.18	
			For Schedule 20, Deduct	-0.67	
			For Schedule 80, Add	1.88	
32 31 13 13-0086	LF	2-1/2"	Outside Diameter Galvanized Steel Post, 21 To 24' In Length.....	5.65	1.20
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	0.84	
			For Vinyl Coated, Add	2.00	
			For Powder Coated, Add	2.67	
			For Aluminum Coated, Add	4.18	
			For Schedule 20, Deduct	-0.67	
			For Schedule 80, Add	1.83	
32 31 13 13-0087	LF	2-1/2"	Outside Diameter Galvanized Steel Post, >24' In Length.....	5.21	0.93
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	0.84	
			For Vinyl Coated, Add	2.00	
			For Powder Coated, Add	2.67	
			For Aluminum Coated, Add	4.18	
			For Schedule 20, Deduct	-0.67	
			For Schedule 80, Add	1.79	
32 31 13 13-0088 Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) (32 31 13 13-0089)					
Note: 3" outside diameter, Schedule 40. Includes cap and accessories.					
32 31 13 13-0089	LF	3"	Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	10.54	2.78
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	1.25	
			For Vinyl Coated, Add	2.99	
			For Powder Coated, Add	3.99	
			For Aluminum Coated, Add	6.24	
			For Schedule 20, Deduct	-1.00	
			For Schedule 80, Add	2.95	
32 31 13 13-0090	LF	3"	Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	9.78	2.41
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	1.25	
			For Vinyl Coated, Add	2.99	
			For Powder Coated, Add	3.99	
			For Aluminum Coated, Add	6.24	
			For Schedule 20, Deduct	-1.00	
			For Schedule 80, Add	2.87	
32 31 13 13-0091	LF	3"	Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	8.85	1.95
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	1.25	
			For Vinyl Coated, Add	2.99	
			For Powder Coated, Add	3.99	
			For Aluminum Coated, Add	6.24	
			For Schedule 20, Deduct	-1.00	
			For Schedule 80, Add	2.78	
32 31 13 13-0092	LF	3"	Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	8.07	1.58
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	1.25	
			For Vinyl Coated, Add	2.99	
			For Powder Coated, Add	3.99	
			For Aluminum Coated, Add	6.24	
			For Schedule 20, Deduct	-1.00	
			For Schedule 80, Add	2.70	
32 31 13 13-0093	LF	3"	Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	7.56	1.30
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	1.25	
			For Vinyl Coated, Add	2.99	
			For Powder Coated, Add	3.99	
			For Aluminum Coated, Add	6.24	
			For Schedule 20, Deduct	-1.00	
			For Schedule 80, Add	2.65	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0094 LF 3" Outside Diameter Galvanized Steel Post, >24' In Length.....	7.08	1.01
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.25	
For Vinyl Coated, Add	2.99	
For Powder Coated, Add	3.99	
For Aluminum Coated, Add	6.24	
For Schedule 20, Deduct	-1.00	
For Schedule 80, Add	2.60	
32 31 13 13-0095 Post Without Top Rail Fitting, Galvanized Steel, (4" Nominal) (32 31 13 13-0059)		
Note: 4" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0096 LF 4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	13.96	2.96
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.03	
For Vinyl Coated, Add	4.87	
For Powder Coated, Add	6.49	
For Aluminum Coated, Add	10.14	
For Schedule 20, Deduct	-1.62	
For Schedule 80, Add	4.48	
32 31 13 13-0097 LF 4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	12.98	2.41
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.03	
For Vinyl Coated, Add	4.87	
For Powder Coated, Add	6.49	
For Aluminum Coated, Add	10.14	
For Schedule 20, Deduct	-1.62	
For Schedule 80, Add	4.38	
32 31 13 13-0098 LF 4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	12.17	2.04
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.03	
For Vinyl Coated, Add	4.87	
For Powder Coated, Add	6.49	
For Aluminum Coated, Add	10.14	
For Schedule 20, Deduct	-1.62	
For Schedule 80, Add	4.30	
32 31 13 13-0099 LF 4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	11.36	1.66
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.03	
For Vinyl Coated, Add	4.87	
For Powder Coated, Add	6.49	
For Aluminum Coated, Add	10.14	
For Schedule 20, Deduct	-1.62	
For Schedule 80, Add	4.22	
32 31 13 13-0100 LF 4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	11.36	1.66
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.03	
For Vinyl Coated, Add	4.87	
For Powder Coated, Add	6.49	
For Aluminum Coated, Add	10.14	
For Schedule 20, Deduct	-1.62	
For Schedule 80, Add	4.22	
32 31 13 13-0101 LF 4" Outside Diameter Galvanized Steel Post, >24' In Length.....	10.42	1.20
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.03	
For Vinyl Coated, Add	4.87	
For Powder Coated, Add	6.49	
For Aluminum Coated, Add	10.14	
For Schedule 20, Deduct	-1.62	
For Schedule 80, Add	4.12	
32 31 13 13-0102 Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) (32 31 13 13-0059)		
Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.		

**Exterior Improvements 32**

Site Improvements 32 30

Fences And Gates 32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0103	LF		6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	23.70	3.24
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.30	
			For Vinyl Coated, Add	10.32	
			For Powder Coated, Add	13.76	
			For Aluminum Coated, Add	21.50	
			For Schedule 20, Deduct	-3.44	
			For Schedule 80, Add	8.91	
32 31 13 13-0104	LF		6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	22.64	2.69
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.30	
			For Vinyl Coated, Add	10.32	
			For Powder Coated, Add	13.76	
			For Aluminum Coated, Add	21.50	
			For Schedule 20, Deduct	-3.44	
			For Schedule 80, Add	8.80	
32 31 13 13-0105	LF		6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	21.72	2.22
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.30	
			For Vinyl Coated, Add	10.32	
			For Powder Coated, Add	13.76	
			For Aluminum Coated, Add	21.50	
			For Schedule 20, Deduct	-3.44	
			For Schedule 80, Add	8.71	
32 31 13 13-0106	LF		6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	20.81	1.76
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.30	
			For Vinyl Coated, Add	10.32	
			For Powder Coated, Add	13.76	
			For Aluminum Coated, Add	21.50	
			For Schedule 20, Deduct	-3.44	
			For Schedule 80, Add	8.62	
32 31 13 13-0107	LF		6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	20.28	1.58
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.30	
			For Vinyl Coated, Add	10.32	
			For Powder Coated, Add	13.76	
			For Aluminum Coated, Add	21.50	
			For Schedule 20, Deduct	-3.44	
			For Schedule 80, Add	8.56	
32 31 13 13-0108	LF		6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	19.77	1.30
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.30	
			For Vinyl Coated, Add	10.32	
			For Powder Coated, Add	13.76	
			For Aluminum Coated, Add	21.50	
			For Schedule 20, Deduct	-3.44	
			For Schedule 80, Add	8.51	
32 31 13 13-0109			Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) (32 31 13 13-0059)		
			Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0110	LF		8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	42.46	3.61
			For Each Top Rail Fitting, Add	7.50	
			For Each Single Barbed Wire Arm, Add	9.15	
			For Each Double Barbed Wire Arm, Add	18.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	8.81	
			For Vinyl Coated, Add	21.14	
			For Powder Coated, Add	28.19	
			For Aluminum Coated, Add	44.05	
			For Schedule 20, Deduct	-7.05	
			For Schedule 80, Add	17.64	
32 31 13 13-0111	LF		8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	41.28	3.05
			For Each Top Rail Fitting, Add	7.50	
			For Each Single Barbed Wire Arm, Add	9.15	
			For Each Double Barbed Wire Arm, Add	18.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	8.81	
			For Vinyl Coated, Add	21.14	
			For Powder Coated, Add	28.19	
			For Aluminum Coated, Add	44.05	
			For Schedule 20, Deduct	-7.05	
			For Schedule 80, Add	17.52	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0112 LF 8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	40.24	2.50
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	8.81	
For Vinyl Coated, Add	21.14	
For Powder Coated, Add	28.19	
For Aluminum Coated, Add	44.05	
For Schedule 20, Deduct	-7.05	
For Schedule 80, Add	17.42	
32 31 13 13-0113 LF 8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	39.21	1.95
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	8.81	
For Vinyl Coated, Add	21.14	
For Powder Coated, Add	28.19	
For Aluminum Coated, Add	44.05	
For Schedule 20, Deduct	-7.05	
For Schedule 80, Add	17.31	
32 31 13 13-0114 LF 8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	38.67	1.66
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	8.81	
For Vinyl Coated, Add	21.14	
For Powder Coated, Add	28.19	
For Aluminum Coated, Add	44.05	
For Schedule 20, Deduct	-7.05	
For Schedule 80, Add	17.26	
32 31 13 13-0115 LF 8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	38.10	1.39
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	8.81	
For Vinyl Coated, Add	21.14	
For Powder Coated, Add	28.19	
For Aluminum Coated, Add	44.05	
For Schedule 20, Deduct	-7.05	
For Schedule 80, Add	17.20	
32 31 13 13-0116 Driven Post Supports (32 31 13 13)		
Note: OZ-Post.		
32 31 13 13-0117 Driven Post Support For Round Chain Link Fence Posts (32 31 13 13-0116)		
32 31 13 13-0118 EA 26" Driven Post Support For 1-5/8" Round Chain Link Fence Post.....	51.55	
Note: OZ-Post GB-700.		
32 31 13 13-0119 EA 26" Driven Post Support For 1-7/8" Round Chain Link Fence Post.....	51.55	
Note: OZ-Post HB-700.		
32 31 13 13-0120 EA 26" Driven Post Support For 2-3/8" Round Chain Link Fence Post.....	52.65	
Note: OZ-Post IS-600.		
32 31 13 13-0121 EA 32" Driven Post Support For 2-3/8" Round Chain Link Fence Post.....	63.66	
Note: OZ-Post ISW-850.		
32 31 13 13-0122 Driven Post Support For Square Ornamental Fence Posts (32 31 13 13-0116)		
32 31 13 13-0123 EA 34" Driven Post Support For 1-3/4" Square Ornamental Fence Post.....	60.34	
Note: OZ-Post C175-850.		
32 31 13 13-0124 EA 24" Driven Post Support For 2" Square Ornamental Fence Post.....	58.69	
Note: OZ-Post I2-600.		
32 31 13 13-0125 EA 34" Driven Post Support For 2" Square Ornamental Fence Post.....	60.68	
Note: OZ-Post I2-850.		
32 31 13 13-0126 EA 34" Driven Post Support For 2-1/2" Square Ornamental Fence Post.....	63.66	
Note: OZ-Post I25-850.		
32 31 13 13-0127 EA 34" Driven Post Support For 3" Square Ornamental Fence Post.....	63.66	
Note: OZ-Post I3-850.		
32 31 13 13-0128 Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)		
32 31 13 13-0129 EA 24" Driven Post Support For 3-1/2" Square Wooden Fence Post.....	57.43	
Note: OZ-Post T4-600.		
32 31 13 13-0130 EA 34" Driven Post Support For 3-1/2" Square Wooden Fence Post.....	62.00	
Note: OZ-Post T4-850.		
32 31 13 13-0131 EA 34" Driven Post Support For 3-3/4" Square Wooden Fence Post.....	65.86	
Note: OZ-Post C4-850.		
32 31 13 13-0132 EA 34" Driven Post Support For 4" Square Wooden Fence Post.....	65.87	
Note: OZ-Post P4-850.		
32 31 13 13-0133 EA 36" Driven Post Support For 4" x 6" Wooden Fence Post.....	73.04	
Note: OZ-Post T46-850.		
32 31 13 13-0134 EA 36" Driven Post Support For 6" Square Wooden Fence Post.....	78.12	
Note: OZ-Post T6-850.		
32 31 13 13-0135 Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0136	EA		24" Driven Post Support For 3-1/2" Square Vinyl Fence Post Note: OZ-Post T4-600.	57.43	
32 31 13 13-0137	EA		34" Driven Post Support For 3-1/2" Square Vinyl Fence Post Note: OZ-Post T4-850.	62.00	
32 31 13 13-0138	EA		34" Driven Post Support For 4" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	65.87	
32 31 13 13-0139	EA		34" Driven Post Support For 5" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	66.75	
32 31 13 13-0140			Chain Link Fence Assemblies (32 31 13 13)		
32 31 13 13-0141			Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts (32 31 13 13-0140) Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0668 for barb wire attachments.		
32 31 13 13-0142			Galvanized (32 31 13 13-0141)		
32 31 13 13-0143	LF		3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post For Surface Mount On Concrete (Excludes Drilling And Anchors), Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add For >2,500 To 5,000, Deduct For >5,000, Deduct	23.15 1.77 -3.76 -2.19 3.45 4.70 1.88 -0.94 -1.25 1.31 4.97 4.71 1.77 -0.89 -1.77	3.15
32 31 13 13-0144	LF		3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post..... For Surface Mount On Concrete (Excludes Drilling And Anchors), Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add For >2,500 To 5,000, Deduct For >5,000, Deduct	23.92 1.82 -3.96 -2.31 3.63 4.95 1.98 -0.99 -1.32 1.35 5.12 4.84 1.82 -0.91 -1.82	3.15
32 31 13 13-0145	LF		4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post For Surface Mount On Concrete (Excludes Drilling And Anchors), Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add For >2,500 To 5,000, Deduct For >5,000, Deduct	24.57 1.86 -4.12 -2.41 3.78 5.15 2.06 -1.03 -1.37 1.38 5.25 4.96 1.86 -0.93 -1.86	3.15
32 31 13 13-0146	LF		5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post For Surface Mount On Concrete (Excludes Drilling And Anchors), Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add For >2,500 To 5,000, Deduct For >5,000, Deduct	26.13 1.96 -4.52 -2.64 4.15 5.66 2.26 -1.13 -1.51 1.46 5.56 5.23 1.96 -0.98 -1.96	3.15

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0147	LF		6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	28.15	3.15
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.11	
			For 13 Gauge Fabric, Deduct	-4.92	
			For 11 Gauge Fabric, Deduct	-2.88	
			For 6 Gauge Fabric, Add	4.52	
			For 1" Mesh Fabric, Add	6.16	
			For 1-3/4" Mesh Fabric, Add	2.47	
			For 2-1/8" Mesh Fabric, Deduct	-1.23	
			For 2-3/8" Mesh Fabric, Deduct	-1.64	
			For Posts 8' On Centers, Add	1.58	
			For Posts 5' On Centers, Add	5.98	
			For Up To 100, Add	5.62	
			For >100 To 250, Add	2.11	
			For >2,500 To 5,000, Deduct	-1.05	
			For >5,000, Deduct	-2.11	
32 31 13 13-0148	LF		7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	29.43	4.73
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.20	
			For 13 Gauge Fabric, Deduct	-5.18	
			For 11 Gauge Fabric, Deduct	-3.03	
			For 6 Gauge Fabric, Add	4.76	
			For 1" Mesh Fabric, Add	6.49	
			For 1-3/4" Mesh Fabric, Add	2.60	
			For 2-1/8" Mesh Fabric, Deduct	-1.30	
			For 2-3/8" Mesh Fabric, Deduct	-1.73	
			For Posts 8' On Centers, Add	1.65	
			For Posts 5' On Centers, Add	6.24	
			For Up To 100, Add	5.87	
			For >100 To 250, Add	2.20	
			For >2,500 To 5,000, Deduct	-1.10	
			For >5,000, Deduct	-2.20	
32 31 13 13-0149	LF		8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	32.35	5.51
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.39	
			For 13 Gauge Fabric, Deduct	-5.87	
			For 11 Gauge Fabric, Deduct	-3.43	
			For 6 Gauge Fabric, Add	5.39	
			For 1" Mesh Fabric, Add	7.35	
			For 1-3/4" Mesh Fabric, Add	2.94	
			For 2-1/8" Mesh Fabric, Deduct	-1.47	
			For 2-3/8" Mesh Fabric, Deduct	-1.96	
			For Posts 8' On Centers, Add	1.80	
			For Posts 5' On Centers, Add	6.83	
			For Up To 100, Add	6.40	
			For >100 To 250, Add	2.39	
			For >2,500 To 5,000, Deduct	-1.20	
			For >5,000, Deduct	-2.39	
32 31 13 13-0150	LF		9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	34.38	7.08
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.53	
			For 13 Gauge Fabric, Deduct	-6.32	
			For 11 Gauge Fabric, Deduct	-3.69	
			For 6 Gauge Fabric, Add	5.81	
			For 1" Mesh Fabric, Add	7.92	
			For 1-3/4" Mesh Fabric, Add	3.17	
			For 2-1/8" Mesh Fabric, Deduct	-1.58	
			For 2-3/8" Mesh Fabric, Deduct	-2.11	
			For Posts 8' On Centers, Add	1.91	
			For Posts 5' On Centers, Add	7.24	
			For Up To 100, Add	6.78	
			For >100 To 250, Add	2.53	
			For >2,500 To 5,000, Deduct	-1.26	
			For >5,000, Deduct	-2.53	
32 31 13 13-0151	LF		10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	36.44	7.87
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.67	
			For 13 Gauge Fabric, Deduct	-6.78	
			For 11 Gauge Fabric, Deduct	-3.96	
			For 6 Gauge Fabric, Add	6.22	
			For 1" Mesh Fabric, Add	8.49	
			For 1-3/4" Mesh Fabric, Add	3.39	
			For 2-1/8" Mesh Fabric, Deduct	-1.70	
			For 2-3/8" Mesh Fabric, Deduct	-2.26	
			For Posts 8' On Centers, Add	2.03	
			For Posts 5' On Centers, Add	7.66	
			For Up To 100, Add	7.16	
			For >100 To 250, Add	2.67	
			For >2,500 To 5,000, Deduct	-1.33	
			For >5,000, Deduct	-2.67	

**Exterior Improvements 32**

Site Improvements 32 30

Fences And Gates 32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0152	LF		12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	40.22	9.44
			For Each Additional Foot >12, Add	3.58	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.93	
			For 13 Gauge Fabric, Deduct	-7.60	
			For 11 Gauge Fabric, Deduct	-4.44	
			For 6 Gauge Fabric, Add	6.98	
			For 1" Mesh Fabric, Add	9.52	
			For 1-3/4" Mesh Fabric, Add	3.81	
			For 2-1/8" Mesh Fabric, Deduct	-1.90	
			For 2-3/8" Mesh Fabric, Deduct	-2.54	
			For Posts 8' On Centers, Add	2.23	
			For Posts 5' On Centers, Add	8.43	
			For Up To 100, Add	7.87	
			For >100 To 250, Add	2.93	
			For >2,500 To 5,000, Deduct	-1.46	
			For >5,000, Deduct	-2.93	
32 31 13 13-0153			Vinyl Coated (32 31 13 13-0141)		
32 31 13 13-0154	LF		4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	25.53	3.15
			For Powder Coated Framework (Posts, Rails, Hardware), Add	1.92	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	1.91	
			For 13 Gauge Fabric, Deduct	-4.45	
			For 11 Gauge Fabric, Deduct	-2.60	
			For 6 Gauge Fabric, Add	4.09	
			For 1" Mesh Fabric, Add	5.57	
			For 1-3/4" Mesh Fabric, Add	2.23	
			For 2-1/8" Mesh Fabric, Deduct	-1.11	
			For 2-3/8" Mesh Fabric, Deduct	-1.49	
			For Posts 8' On Centers, Add	1.43	
			For Posts 5' On Centers, Add	5.42	
			For Up To 100, Add	5.10	
			For >100 To 250, Add	1.91	
			For >2,500 To 5,000, Deduct	-0.96	
			For >5,000, Deduct	-1.91	
32 31 13 13-0155	LF		5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	27.35	3.15
			For Powder Coated Framework (Posts, Rails, Hardware), Add	2.13	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.02	
			For 13 Gauge Fabric, Deduct	-4.94	
			For 11 Gauge Fabric, Deduct	-2.89	
			For 6 Gauge Fabric, Add	4.54	
			For 1" Mesh Fabric, Add	6.19	
			For 1-3/4" Mesh Fabric, Add	2.47	
			For 2-1/8" Mesh Fabric, Deduct	-1.24	
			For 2-3/8" Mesh Fabric, Deduct	-1.65	
			For Posts 8' On Centers, Add	1.53	
			For Posts 5' On Centers, Add	5.78	
			For Up To 100, Add	5.42	
			For >100 To 250, Add	2.02	
			For >2,500 To 5,000, Deduct	-1.01	
			For >5,000, Deduct	-2.02	
32 31 13 13-0156	LF		6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	30.62	3.15
			For Powder Coated Framework (Posts, Rails, Hardware), Add	2.50	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.23	
			For 13 Gauge Fabric, Deduct	-5.78	
			For 11 Gauge Fabric, Deduct	-3.38	
			For 6 Gauge Fabric, Add	5.31	
			For 1" Mesh Fabric, Add	7.24	
			For 1-3/4" Mesh Fabric, Add	2.90	
			For 2-1/8" Mesh Fabric, Deduct	-1.45	
			For 2-3/8" Mesh Fabric, Deduct	-1.93	
			For Posts 8' On Centers, Add	1.70	
			For Posts 5' On Centers, Add	6.42	
			For Up To 100, Add	5.99	
			For >100 To 250, Add	2.23	
			For >2,500 To 5,000, Deduct	-1.12	
			For >5,000, Deduct	-2.23	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0157	LF	7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	32.30		4.73	
		For Powder Coated Framework (Posts, Rails, Hardware), Add		2.67		
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add		2.34		
		For 13 Gauge Fabric, Deduct		-6.18		
		For 11 Gauge Fabric, Deduct		-3.61		
		For 6 Gauge Fabric, Add		5.68		
		For 1" Mesh Fabric, Add		7.74		
		For 1-3/4" Mesh Fabric, Add		3.10		
		For 2-1/8" Mesh Fabric, Deduct		-1.55		
		For 2-3/8" Mesh Fabric, Deduct		-2.06		
		For Posts 8' On Centers, Add		1.79		
		For Posts 5' On Centers, Add		6.76		
		For Up To 100, Add		6.30		
		For >100 To 250, Add		2.34		
		For >2,500 To 5,000, Deduct		-1.17		
		For >5,000, Deduct		-2.34		
32 31 13 13-0158	LF	8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	35.70		5.51	
		For Powder Coated Framework (Posts, Rails, Hardware), Add		3.04		
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add		2.56		
		For 13 Gauge Fabric, Deduct		-7.03		
		For 11 Gauge Fabric, Deduct		-4.11		
		For 6 Gauge Fabric, Add		6.46		
		For 1" Mesh Fabric, Add		8.80		
		For 1-3/4" Mesh Fabric, Add		3.52		
		For 2-1/8" Mesh Fabric, Deduct		-1.76		
		For 2-3/8" Mesh Fabric, Deduct		-2.35		
		For Posts 8' On Centers, Add		1.97		
		For Posts 5' On Centers, Add		7.43		
		For Up To 100, Add		6.90		
		For >100 To 250, Add		2.56		
		For >2,500 To 5,000, Deduct		-1.28		
		For >5,000, Deduct		-2.56		
32 31 13 13-0159	LF	9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	37.97		7.08	
		For Powder Coated Framework (Posts, Rails, Hardware), Add		3.27		
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add		2.71		
		For 13 Gauge Fabric, Deduct		-7.57		
		For 11 Gauge Fabric, Deduct		-4.42		
		For 6 Gauge Fabric, Add		6.95		
		For 1" Mesh Fabric, Add		9.48		
		For 1-3/4" Mesh Fabric, Add		3.79		
		For 2-1/8" Mesh Fabric, Deduct		-1.90		
		For 2-3/8" Mesh Fabric, Deduct		-2.53		
		For Posts 8' On Centers, Add		2.09		
		For Posts 5' On Centers, Add		7.89		
		For Up To 100, Add		7.31		
		For >100 To 250, Add		2.71		
		For >2,500 To 5,000, Deduct		-1.35		
		For >5,000, Deduct		-2.71		
32 31 13 13-0160	LF	10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	40.28		7.87	
		For Powder Coated Framework (Posts, Rails, Hardware), Add		3.50		
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add		2.86		
		For 13 Gauge Fabric, Deduct		-8.11		
		For 11 Gauge Fabric, Deduct		-4.74		
		For 6 Gauge Fabric, Add		7.45		
		For 1" Mesh Fabric, Add		10.16		
		For 1-3/4" Mesh Fabric, Add		4.06		
		For 2-1/8" Mesh Fabric, Deduct		-2.03		
		For 2-3/8" Mesh Fabric, Deduct		-2.71		
		For Posts 8' On Centers, Add		2.22		
		For Posts 5' On Centers, Add		8.35		
		For Up To 100, Add		7.74		
		For >100 To 250, Add		2.86		
		For >2,500 To 5,000, Deduct		-1.43		
		For >5,000, Deduct		-2.86		
32 31 13 13-0161	LF	12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	43.59		9.44	
		For Each Additional Foot >12, Add		3.83		
		For Powder Coated Framework (Posts, Rails, Hardware), Add		3.79		
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add		3.10		
		For 13 Gauge Fabric, Deduct		-8.77		
		For 11 Gauge Fabric, Deduct		-5.13		
		For 6 Gauge Fabric, Add		8.05		
		For 1" Mesh Fabric, Add		10.98		
		For 1-3/4" Mesh Fabric, Add		4.39		
		For 2-1/8" Mesh Fabric, Deduct		-2.20		
		For 2-3/8" Mesh Fabric, Deduct		-2.93		
		For Posts 8' On Centers, Add		2.40		
		For Posts 5' On Centers, Add		9.04		
		For Up To 100, Add		8.37		
		For >100 To 250, Add		3.10		
		For >2,500 To 5,000, Deduct		-1.55		
		For >5,000, Deduct		-3.10		



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0162			Rails (32 31 13 13) Note: Includes rail end fittings.		
32 31 13 13-0163			SS-20 Chain Link Fence Rails (32 31 13 13-0162) Note: Includes tie wires.		
32 31 13 13-0164	LF		1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	4.43	1.01
			For SS15, Deduct	-0.23	
			For SS40, Add	0.58	
32 31 13 13-0165	LF		1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	5.21	1.01
			For SS40, Add	0.31	
			For Powder Coated, Add	0.62	
			For Aluminum Coated, Add	1.23	
32 31 13 13-0166	LF		1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	5.38	1.16
			For SS15, Deduct	-0.31	
			For SS40, Add	0.77	
32 31 13 13-0167	LF		1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	6.42	1.16
			For SS40, Add	0.41	
			For Powder Coated, Add	0.82	
			For Aluminum Coated, Add	1.64	
32 31 13 13-0168	LF		2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	6.28	1.30
			For SS40, Add	0.92	
32 31 13 13-0169	LF		2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	7.52	1.30
			For SS40, Add	0.49	
			For Powder Coated, Add	0.99	
			For Aluminum Coated, Add	1.97	
32 31 13 13-0170			Fabric (32 31 13 13)		
32 31 13 13-0171			Fabric, Galvanized Chain Link (32 31 13 13-0170)		
32 31 13 13-0172	LF		3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	8.40	1.85
			For 2 Oz Galvanized Or Zinc Coating, Add	0.60	
			For 13 Gauge Fabric, Deduct	-1.07	
			For 11 Gauge Fabric, Deduct	-0.60	
			For 6 Gauge Fabric, Add	1.90	
			For 1" Mesh Fabric, Add	1.79	
			For 1-3/4" Mesh Fabric, Add	0.71	
			For 2-1/8" Mesh Fabric, Deduct	-0.36	
			For 2-3/8" Mesh Fabric, Deduct	-0.48	
32 31 13 13-0173	LF		3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	9.25	2.08
			For 2 Oz Galvanized Or Zinc Coating, Add	0.69	
			For 13 Gauge Fabric, Deduct	-1.25	
			For 11 Gauge Fabric, Deduct	-0.69	
			For 6 Gauge Fabric, Add	2.22	
			For 1" Mesh Fabric, Add	2.08	
			For 1-3/4" Mesh Fabric, Add	0.83	
			For 2-1/8" Mesh Fabric, Deduct	-0.42	
			For 2-3/8" Mesh Fabric, Deduct	-0.55	
32 31 13 13-0174	LF		4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	9.99	2.31
			For 2 Oz Galvanized Or Zinc Coating, Add	0.76	
			For 13 Gauge Fabric, Deduct	-1.37	
			For 11 Gauge Fabric, Deduct	-0.76	
			For 6 Gauge Fabric, Add	2.44	
			For 1" Mesh Fabric, Add	2.29	
			For 1-3/4" Mesh Fabric, Add	0.92	
			For 2-1/8" Mesh Fabric, Deduct	-0.46	
			For 2-3/8" Mesh Fabric, Deduct	-0.61	
32 31 13 13-0175	LF		5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	11.20	2.78
			For 2 Oz Galvanized Or Zinc Coating, Add	0.95	
			For 13 Gauge Fabric, Deduct	-1.71	
			For 11 Gauge Fabric, Deduct	-0.95	
			For 6 Gauge Fabric, Add	3.04	
			For 1" Mesh Fabric, Add	2.85	
			For 1-3/4" Mesh Fabric, Add	1.14	
			For 2-1/8" Mesh Fabric, Deduct	-0.57	
			For 2-3/8" Mesh Fabric, Deduct	-0.76	
32 31 13 13-0176	LF		6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	12.50	3.24
			For 2 Oz Galvanized Or Zinc Coating, Add	1.14	
			For 13 Gauge Fabric, Deduct	-2.06	
			For 11 Gauge Fabric, Deduct	-1.14	
			For 6 Gauge Fabric, Add	3.66	
			For 1" Mesh Fabric, Add	3.43	
			For 1-3/4" Mesh Fabric, Add	1.37	
			For 2-1/8" Mesh Fabric, Deduct	-0.69	
			For 2-3/8" Mesh Fabric, Deduct	-0.91	
32 31 13 13-0177	LF		7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	13.87	3.70
			For 2 Oz Galvanized Or Zinc Coating, Add	1.33	
			For 13 Gauge Fabric, Deduct	-2.39	
			For 11 Gauge Fabric, Deduct	-1.33	
			For 6 Gauge Fabric, Add	4.26	
			For 1" Mesh Fabric, Add	3.99	
			For 1-3/4" Mesh Fabric, Add	1.60	
			For 2-1/8" Mesh Fabric, Deduct	-0.80	
			For 2-3/8" Mesh Fabric, Deduct	-1.06	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0178	LF	8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	15.35		4.63
		For 2 Oz Galvanized Or Zinc Coating, Add	1.52		
		For 13 Gauge Fabric, Deduct	-2.74		
		For 11 Gauge Fabric, Deduct	-1.52		
		For 6 Gauge Fabric, Add	4.87		
		For 1" Mesh Fabric, Add	4.57		
		For 1-3/4" Mesh Fabric, Add	1.83		
		For 2-1/8" Mesh Fabric, Deduct	-0.91		
		For 2-3/8" Mesh Fabric, Deduct	-1.22		
32 31 13 13-0179	LF	10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	18.13		5.09
		For 2 Oz Galvanized Or Zinc Coating, Add	1.98		
		For 13 Gauge Fabric, Deduct	-3.56		
		For 11 Gauge Fabric, Deduct	-1.98		
		For 6 Gauge Fabric, Add	6.33		
		For 1" Mesh Fabric, Add	5.93		
		For 1-3/4" Mesh Fabric, Add	2.37		
		For 2-1/8" Mesh Fabric, Deduct	-1.19		
		For 2-3/8" Mesh Fabric, Deduct	-1.58		
32 31 13 13-0180	LF	12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	20.60		5.55
		For 2 Oz Galvanized Or Zinc Coating, Add	2.37		
		For 13 Gauge Fabric, Deduct	-4.27		
		For 11 Gauge Fabric, Deduct	-2.37		
		For 6 Gauge Fabric, Add	7.58		
		For 1" Mesh Fabric, Add	7.11		
		For 1-3/4" Mesh Fabric, Add	2.84		
		For 2-1/8" Mesh Fabric, Deduct	-1.42		
		For 2-3/8" Mesh Fabric, Deduct	-1.90		
32 31 13 13-0181	LF	14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	23.15		6.48
		For 2 Oz Galvanized Or Zinc Coating, Add	2.55		
		For 13 Gauge Fabric, Deduct	-4.58		
		For 11 Gauge Fabric, Deduct	-2.55		
		For 6 Gauge Fabric, Add	8.14		
		For 1" Mesh Fabric, Add	7.64		
		For 1-3/4" Mesh Fabric, Add	3.05		
		For 2-1/8" Mesh Fabric, Deduct	-1.53		
		For 2-3/8" Mesh Fabric, Deduct	-2.04		
32 31 13 13-0182	LF	16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	25.70		7.40
		For 2 Oz Galvanized Or Zinc Coating, Add	2.72		
		For 13 Gauge Fabric, Deduct	-4.90		
		For 11 Gauge Fabric, Deduct	-2.72		
		For 6 Gauge Fabric, Add	8.70		
		For 1" Mesh Fabric, Add	8.16		
		For 1-3/4" Mesh Fabric, Add	3.26		
		For 2-1/8" Mesh Fabric, Deduct	-1.63		
		For 2-3/8" Mesh Fabric, Deduct	-2.18		
32 31 13 13-0183	SF	>16' Full Height Fabric Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	1.61		0.44
		For 2 Oz Galvanized Or Zinc Coating, Add	0.17		
		For 13 Gauge Fabric, Deduct	-0.31		
		For 11 Gauge Fabric, Deduct	-0.17		
		For 6 Gauge Fabric, Add	0.54		
		For 1" Mesh Fabric, Add	0.51		
		For 1-3/4" Mesh Fabric, Add	0.20		
		For 2-1/8" Mesh Fabric, Deduct	-0.10		
		For 2-3/8" Mesh Fabric, Deduct	-0.14		
32 31 13 13-0184 Fabric, Vinyl Coated Chain Link (32 31 13 13-0170)					
32 31 13 13-0185	LF	4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	10.96		1.85
		For 13 Gauge Fabric, Deduct	-1.81		
		For 11 Gauge Fabric, Deduct	-1.01		
		For 6 Gauge Fabric, Add	3.22		
		For 1" Mesh Fabric, Add	3.02		
		For 1-3/4" Mesh Fabric, Add	1.21		
		For 2-1/8" Mesh Fabric, Deduct	-0.60		
		For 2-3/8" Mesh Fabric, Deduct	-0.80		
		For Aluminum Coated, Add	1.61		
32 31 13 13-0186	LF	5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	12.42		2.78
		For 13 Gauge Fabric, Deduct	-2.26		
		For 11 Gauge Fabric, Deduct	-1.26		
		For 6 Gauge Fabric, Add	4.02		
		For 1" Mesh Fabric, Add	3.77		
		For 1-3/4" Mesh Fabric, Add	1.51		
		For 2-1/8" Mesh Fabric, Deduct	-0.75		
		For 2-3/8" Mesh Fabric, Deduct	-1.00		
		For Aluminum Coated, Add	2.01		
32 31 13 13-0187	LF	6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	14.97		3.24
		For 13 Gauge Fabric, Deduct	-3.17		
		For 11 Gauge Fabric, Deduct	-1.76		
		For 6 Gauge Fabric, Add	5.63		
		For 1" Mesh Fabric, Add	5.28		
		For 1-3/4" Mesh Fabric, Add	2.11		
		For 2-1/8" Mesh Fabric, Deduct	-1.06		
		For 2-3/8" Mesh Fabric, Deduct	-1.41		
		For Aluminum Coated, Add	2.82		



Exterior Improvements		32	32
Site Improvements		32 30	
Fences And Gates		32 31	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0188	LF	7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	16.75	3.70
		For 13 Gauge Fabric, Deduct	-3.69	
		For 11 Gauge Fabric, Deduct	-2.05	
		For 6 Gauge Fabric, Add	6.56	
		For 1" Mesh Fabric, Add	6.15	
		For 1-3/4" Mesh Fabric, Add	2.46	
		For 2-1/8" Mesh Fabric, Deduct	-1.23	
		For 2-3/8" Mesh Fabric, Deduct	-1.64	
		For Aluminum Coated, Add	3.28	
32 31 13 13-0189	LF	8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	18.70	4.63
		For 13 Gauge Fabric, Deduct	-4.25	
		For 11 Gauge Fabric, Deduct	-2.36	
		For 6 Gauge Fabric, Add	7.55	
		For 1" Mesh Fabric, Add	7.08	
		For 1-3/4" Mesh Fabric, Add	2.83	
		For 2-1/8" Mesh Fabric, Deduct	-1.42	
		For 2-3/8" Mesh Fabric, Deduct	-1.89	
		For Aluminum Coated, Add	3.78	
32 31 13 13-0190	LF	10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	21.97	5.09
		For 13 Gauge Fabric, Deduct	-5.29	
		For 11 Gauge Fabric, Deduct	-2.94	
		For 6 Gauge Fabric, Add	9.40	
		For 1" Mesh Fabric, Add	8.81	
		For 1-3/4" Mesh Fabric, Add	3.53	
		For 2-1/8" Mesh Fabric, Deduct	-1.76	
		For 2-3/8" Mesh Fabric, Deduct	-2.35	
		For Aluminum Coated, Add	4.70	
32 31 13 13-0191	LF	12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	23.98	5.55
		For 13 Gauge Fabric, Deduct	-5.79	
		For 11 Gauge Fabric, Deduct	-3.22	
		For 6 Gauge Fabric, Add	10.29	
		For 1" Mesh Fabric, Add	9.65	
		For 1-3/4" Mesh Fabric, Add	3.86	
		For 2-1/8" Mesh Fabric, Deduct	-1.93	
		For 2-3/8" Mesh Fabric, Deduct	-2.57	
		For Aluminum Coated, Add	5.14	
32 31 13 13-0192	LF	14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	27.12	6.48
		For 13 Gauge Fabric, Deduct	-6.37	
		For 11 Gauge Fabric, Deduct	-3.54	
		For 6 Gauge Fabric, Add	11.32	
		For 1" Mesh Fabric, Add	10.61	
		For 1-3/4" Mesh Fabric, Add	4.25	
		For 2-1/8" Mesh Fabric, Deduct	-2.12	
		For 2-3/8" Mesh Fabric, Deduct	-2.83	
		For Aluminum Coated, Add	5.66	
32 31 13 13-0193	LF	16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	30.32	7.40
		For 13 Gauge Fabric, Deduct	-6.98	
		For 11 Gauge Fabric, Deduct	-3.88	
		For 6 Gauge Fabric, Add	12.40	
		For 1" Mesh Fabric, Add	11.63	
		For 1-3/4" Mesh Fabric, Add	4.65	
		For 2-1/8" Mesh Fabric, Deduct	-2.33	
		For 2-3/8" Mesh Fabric, Deduct	-3.10	
		For Aluminum Coated, Add	6.20	
32 31 13 13-0194	SF	>16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	1.90	0.44
		For 13 Gauge Fabric, Deduct	-0.44	
		For 11 Gauge Fabric, Deduct	-0.24	
		For 6 Gauge Fabric, Add	0.78	
		For 1" Mesh Fabric, Add	0.73	
		For 1-3/4" Mesh Fabric, Add	0.29	
		For 2-1/8" Mesh Fabric, Deduct	-0.15	
		For 2-3/8" Mesh Fabric, Deduct	-0.19	
		For Aluminum Coated, Add	0.39	
32 31 13 13-0195		Fabric, Aluminized Steel Chain Link (32 31 13 13-0170)		
32 31 13 13-0196	LF	3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	8.19	1.85
		For 6 Gauge Fabric, Add	1.74	
		For 1" Mesh Fabric, Add	2.28	
32 31 13 13-0197	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	9.00	2.08
		For 6 Gauge Fabric, Add	2.02	
		For 1" Mesh Fabric, Add	2.65	
32 31 13 13-0198	LF	4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	9.83	2.31
		For 6 Gauge Fabric, Add	2.31	
		For 1" Mesh Fabric, Add	3.03	
32 31 13 13-0199	LF	5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	11.00	2.78
		For 6 Gauge Fabric, Add	2.88	
		For 1" Mesh Fabric, Add	3.78	
32 31 13 13-0200	LF	6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	12.24	3.24
		For 6 Gauge Fabric, Add	3.45	
		For 1" Mesh Fabric, Add	4.53	
32 31 13 13-0201	LF	7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	13.59	3.70
		For 6 Gauge Fabric, Add	4.03	
		For 1" Mesh Fabric, Add	5.29	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0202	LF	8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	15.02 4.61 6.05	4.63
32 31 13 13-0203	LF	10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	17.41 5.75 7.55	5.09
32 31 13 13-0204	LF	12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	19.75 6.90 9.06	5.55
32 31 13 13-0205 Fabric, All Aluminum Chain Link (32 31 13 13-0170)				
32 31 13 13-0206	LF	3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	11.69 4.54 5.95	1.85
32 31 13 13-0207	LF	3-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	13.10 5.30 6.95	2.08
32 31 13 13-0208	LF	4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	14.50 6.05 7.94	2.31
32 31 13 13-0209	LF	5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	16.85 7.56 9.92	2.78
32 31 13 13-0210	LF	6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	19.27 9.07 11.91	3.24
32 31 13 13-0211	LF	7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	21.78 10.58 13.89	3.70
32 31 13 13-0212	LF	8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	24.38 12.10 15.88	4.63
32 31 13 13-0213	LF	10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	29.12 15.12 19.85	5.09
32 31 13 13-0214	LF	12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	33.80 18.14 23.81	5.55
32 31 13 13-0215 Fence Inserts (32 31 13 13-0170) Note: For use with new or existing chain link fence, per lf of fence.				
32 31 13 13-0216 Vinyl Plastic Fence Inserts (32 31 13 13-0215) Note: Assorted colors.				
32 31 13 13-0217	LF	3' High Fence, Vinyl Plastic Fence Insert.....	6.17	
32 31 13 13-0218	LF	3-1/2' High Fence, Vinyl Plastic Fence Insert.....	7.07	
32 31 13 13-0219	LF	4' High Fence, Vinyl Plastic Fence Insert.....	7.80	
32 31 13 13-0220	LF	5' High Fence, Vinyl Plastic Fence Insert.....	9.78	
32 31 13 13-0221	LF	6' High Fence, Vinyl Plastic Fence Insert.....	11.70	
32 31 13 13-0222	LF	7' High Fence, Vinyl Plastic Fence Insert.....	13.69	
32 31 13 13-0223	LF	8' High Fence, Vinyl Plastic Fence Insert.....	15.60	
32 31 13 13-0224	LF	10' High Fence, Vinyl Plastic Fence Insert.....	18.63	
32 31 13 13-0225 Aluminum Fence Inserts (32 31 13 13-0215) Note: Assorted colors.				
32 31 13 13-0226	LF	3' High Fence, Aluminum Fence Insert.....	18.13	
32 31 13 13-0227	LF	3-1/2' High Fence, Aluminum Fence Insert.....	19.95	
32 31 13 13-0228	LF	4' High Fence, Aluminum Fence Insert.....	22.91	
32 31 13 13-0229	LF	5' High Fence, Aluminum Fence Insert.....	28.68	
32 31 13 13-0230	LF	6' High Fence, Aluminum Fence Insert.....	34.41	
32 31 13 13-0231	LF	7' High Fence, Aluminum Fence Insert.....	37.69	
32 31 13 13-0232	LF	8' High Fence, Aluminum Fence Insert.....	45.87	
32 31 13 13-0233	LF	10' High Fence, Aluminum Fence Insert.....	56.67	
32 31 13 13-0234 Redwood Fence Inserts (32 31 13 13-0215)				
32 31 13 13-0235	LF	4' High Fence, Redwood Fence Insert.....	9.53	
32 31 13 13-0236	LF	5' High Fence, Redwood Fence Insert.....	12.07	
32 31 13 13-0237	LF	6' High Fence, Redwood Fence Insert.....	14.50	
32 31 13 13-0238	LF	7' High Fence, Redwood Fence Insert.....	16.88	
32 31 13 13-0239	LF	8' High Fence, Redwood Fence Insert.....	19.32	
32 31 13 13-0240 Diagonal Flexible Polyethylene Inserts (32 31 13 13-0215)				
32 31 13 13-0241	SF	Diagonal Polyethylene Fence Weave	2.46	
32 31 13 13-0242 Hedge Link Fence Inserts (32 31 13 13-0215)				
32 31 13 13-0243	LF	3' High Fence, Hedge Link Fence Insert.....	12.67	
32 31 13 13-0244	LF	3-1/2' High Fence, Hedge Link Fence Insert.....	14.42	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0245	LF		4' High Fence, Hedge Link Fence Insert.....	17.04	
32 31 13 13-0246	LF		5' High Fence, Hedge Link Fence Insert.....	21.06	
32 31 13 13-0247	LF		6' High Fence, Hedge Link Fence Insert.....	24.21	
32 31 13 13-0248	LF		7' High Fence, Hedge Link Fence Insert.....	30.32	
32 31 13 13-0249	LF		8' High Fence, Hedge Link Fence Insert.....	34.45	
32 31 13 13-0250	LF		10' High Fence, Hedge Link Fence Insert.....	41.03	
32 31 13 13-0251	LF		12' High Fence, Hedge Link Fence Insert.....	47.04	
32 31 13 13-0252			Fence Windscreen Fabric (32 31 13 13-0170) Note: Includes plastic wire clips.		
32 31 13 13-0253	SF		Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY.....	1.83	
			For Sewn Boxed Vent (Each), Add	15.43	
			For Welded Boxed Vent (Each), Add	7.72	
			For 4' x 4' One Color Logo (Each), Add	321.55	
32 31 13 13-0254			Non-Climbable Fabric, Galvanized Chain Link (32 31 13 13-0170)		
32 31 13 13-0255	LF		3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	19.67	1.85
			For 11 Gauge, Deduct	-2.73	
			For 10 Gauge, Deduct	-1.09	
			For 7 Gauge, Add	1.64	
			For 6 Gauge, Add	3.82	
			For 1/2" Mesh Fabric, Deduct	-0.68	
			For 5/8" Mesh Fabric, Deduct	-1.50	
			For 3/4" Mesh Fabric, Deduct	-2.18	
32 31 13 13-0256	LF		3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	22.40	2.08
			For 11 Gauge, Deduct	-3.18	
			For 10 Gauge, Deduct	-1.27	
			For 7 Gauge, Add	1.91	
			For 6 Gauge, Add	4.46	
			For 1/2" Mesh Fabric, Deduct	-0.80	
			For 5/8" Mesh Fabric, Deduct	-1.75	
			For 3/4" Mesh Fabric, Deduct	-2.55	
32 31 13 13-0257	LF		4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	25.16	2.31
			For 11 Gauge, Deduct	-3.64	
			For 10 Gauge, Deduct	-1.46	
			For 7 Gauge, Add	2.19	
			For 6 Gauge, Add	5.10	
			For 1/2" Mesh Fabric, Deduct	-0.91	
			For 5/8" Mesh Fabric, Deduct	-2.00	
			For 3/4" Mesh Fabric, Deduct	-2.92	
32 31 13 13-0258	LF		5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	30.16	2.78
			For 11 Gauge, Deduct	-4.55	
			For 10 Gauge, Deduct	-1.82	
			For 7 Gauge, Add	2.73	
			For 6 Gauge, Add	6.37	
			For 1/2" Mesh Fabric, Deduct	-1.14	
			For 5/8" Mesh Fabric, Deduct	-2.50	
			For 3/4" Mesh Fabric, Deduct	-3.64	
32 31 13 13-0259	LF		6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	35.23	3.24
			For 11 Gauge, Deduct	-5.46	
			For 10 Gauge, Deduct	-2.18	
			For 7 Gauge, Add	3.28	
			For 6 Gauge, Add	7.64	
			For 1/2" Mesh Fabric, Deduct	-1.37	
			For 5/8" Mesh Fabric, Deduct	-3.00	
			For 3/4" Mesh Fabric, Deduct	-4.37	
32 31 13 13-0260	LF		7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	40.41	3.70
			For 11 Gauge, Deduct	-6.37	
			For 10 Gauge, Deduct	-2.55	
			For 7 Gauge, Add	3.82	
			For 6 Gauge, Add	8.92	
			For 1/2" Mesh Fabric, Deduct	-1.59	
			For 5/8" Mesh Fabric, Deduct	-3.50	
			For 3/4" Mesh Fabric, Deduct	-5.10	
32 31 13 13-0261	LF		8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	45.67	4.63
			For 11 Gauge, Deduct	-7.28	
			For 10 Gauge, Deduct	-2.91	
			For 7 Gauge, Add	4.37	
			For 6 Gauge, Add	10.19	
			For 1/2" Mesh Fabric, Deduct	-1.82	
			For 5/8" Mesh Fabric, Deduct	-4.01	
			For 3/4" Mesh Fabric, Deduct	-5.83	
32 31 13 13-0262	LF		9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	50.26	4.86
			For 11 Gauge, Deduct	-8.11	
			For 10 Gauge, Deduct	-3.24	
			For 7 Gauge, Add	4.86	
			For 6 Gauge, Add	11.35	
			For 1/2" Mesh Fabric, Deduct	-2.03	
			For 5/8" Mesh Fabric, Deduct	-4.46	
			For 3/4" Mesh Fabric, Deduct	-6.48	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0263	LF	10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	54.87	5.09
		For 11 Gauge, Deduct	-8.93	
		For 10 Gauge, Deduct	-3.57	
		For 7 Gauge, Add	5.36	
		For 6 Gauge, Add	12.50	
		For 1/2" Mesh Fabric, Deduct	-2.23	
		For 5/8" Mesh Fabric, Deduct	-4.91	
		For 3/4" Mesh Fabric, Deduct	-7.14	
32 31 13 13-0264	LF	12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	59.52	5.55
		For 11 Gauge, Deduct	-9.68	
		For 10 Gauge, Deduct	-3.87	
		For 7 Gauge, Add	5.81	
		For 6 Gauge, Add	13.55	
		For 1/2" Mesh Fabric, Deduct	-2.42	
		For 5/8" Mesh Fabric, Deduct	-5.32	
		For 3/4" Mesh Fabric, Deduct	-7.74	
32 31 13 13-0265		Gates (32 31 13 13) Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0266		Galvanized Steel Without Barbed Wire (32 31 13 13-0265) Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0267		4' Fence Height (32 31 13 13-0266)		
32 31 13 13-0268	EA	3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	179.98	18.31
		For Gate With Single Barb Wire Arm, Add	13.50	
		For Gate With Double Barb Wire Arm, Add	19.64	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-23.02	
		For Aluminized Steel Gate And Post, Add	58.92	
		For Powder Coated Gate And Post, Add	31.92	
32 31 13 13-0269	EA	4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	220.90	19.08
		For Gate With Single Barb Wire Arm, Add	18.00	
		For Gate With Double Barb Wire Arm, Add	26.19	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-30.69	
		For Aluminized Steel Gate And Post, Add	78.57	
		For Powder Coated Gate And Post, Add	42.56	
32 31 13 13-0270	EA	5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	258.64	20.29
		For Gate With Single Barb Wire Arm, Add	21.74	
		For Gate With Double Barb Wire Arm, Add	31.62	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.05	
		For Aluminized Steel Gate And Post, Add	94.85	
		For Powder Coated Gate And Post, Add	51.38	
32 31 13 13-0271	EA	6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	304.80	24.41
		For Gate With Single Barb Wire Arm, Add	25.47	
		For Gate With Double Barb Wire Arm, Add	37.05	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-43.42	
		For Aluminized Steel Gate And Post, Add	111.14	
		For Powder Coated Gate And Post, Add	60.20	
32 31 13 13-0272	EA	7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	350.94	28.46
		For Gate With Single Barb Wire Arm, Add	29.20	
		For Gate With Double Barb Wire Arm, Add	42.48	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-49.78	
		For Aluminized Steel Gate And Post, Add	127.43	
		For Powder Coated Gate And Post, Add	69.02	
32 31 13 13-0273	EA	8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	398.48	32.50
		For Gate With Single Barb Wire Arm, Add	33.09	
		For Gate With Double Barb Wire Arm, Add	48.13	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.40	
		For Aluminized Steel Gate And Post, Add	144.39	
		For Powder Coated Gate And Post, Add	78.21	
32 31 13 13-0274	EA	9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	444.61	36.62
		For Gate With Single Barb Wire Arm, Add	36.82	
		For Gate With Double Barb Wire Arm, Add	53.56	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.77	
		For Aluminized Steel Gate And Post, Add	160.68	
		For Powder Coated Gate And Post, Add	87.04	
32 31 13 13-0275	EA	10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	491.35	40.66
		For Gate With Single Barb Wire Arm, Add	40.62	
		For Gate With Double Barb Wire Arm, Add	59.08	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-69.24	
		For Aluminized Steel Gate And Post, Add	177.25	
		For Powder Coated Gate And Post, Add	96.01	
32 31 13 13-0276	EA	10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	613.11	40.66
		For Gate With Single Barb Wire Arm, Add	54.01	
		For Gate With Double Barb Wire Arm, Add	78.57	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-92.07	
		For Aluminized Steel Gate And Post, Add	235.70	
		For Powder Coated Gate And Post, Add	127.67	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0277	EA	12'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	720.05	43.57
			For Gate With Single Barb Wire Arm, Add	64.82	
			For Gate With Double Barb Wire Arm, Add	94.28	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-110.48	
			For Aluminized Steel Gate And Post, Add	282.84	
			For Powder Coated Gate And Post, Add	153.21	
32 31 13 13-0278	EA	14'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	828.31	46.92
			For Gate With Single Barb Wire Arm, Add	75.62	
			For Gate With Double Barb Wire Arm, Add	109.99	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-128.90	
			For Aluminized Steel Gate And Post, Add	329.98	
			For Powder Coated Gate And Post, Add	178.74	
32 31 13 13-0279	EA	16'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	938.26	50.81
			For Gate With Single Barb Wire Arm, Add	86.42	
			For Gate With Double Barb Wire Arm, Add	125.71	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-147.31	
			For Aluminized Steel Gate And Post, Add	377.12	
			For Powder Coated Gate And Post, Add	204.27	
32 31 13 13-0280	EA	18'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,073.91	63.25
			For Gate With Single Barb Wire Arm, Add	97.23	
			For Gate With Double Barb Wire Arm, Add	141.42	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-165.73	
			For Aluminized Steel Gate And Post, Add	424.26	
			For Powder Coated Gate And Post, Add	229.81	
32 31 13 13-0281	EA	20'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,185.69	67.79
			For Gate With Single Barb Wire Arm, Add	108.03	
			For Gate With Double Barb Wire Arm, Add	157.13	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-184.14	
			For Aluminized Steel Gate And Post, Add	471.40	
			For Powder Coated Gate And Post, Add	255.34	
32 31 13 13-0282	EA	22'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,297.17	73.05
			For Gate With Single Barb Wire Arm, Add	118.57	
			For Gate With Double Barb Wire Arm, Add	172.46	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-202.10	
			For Aluminized Steel Gate And Post, Add	517.39	
			For Powder Coated Gate And Post, Add	280.25	
32 31 13 13-0283	EA	24'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,411.26	79.10
			For Gate With Single Barb Wire Arm, Add	129.11	
			For Gate With Double Barb Wire Arm, Add	187.79	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-220.07	
			For Aluminized Steel Gate And Post, Add	563.38	
			For Powder Coated Gate And Post, Add	305.16	
32 31 13 13-0284	EA	26'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,528.67	86.32
			For Gate With Single Barb Wire Arm, Add	139.65	
			For Gate With Double Barb Wire Arm, Add	203.12	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-238.04	
			For Aluminized Steel Gate And Post, Add	609.37	
			For Powder Coated Gate And Post, Add	330.08	
32 31 13 13-0285	EA	28'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,614.46	94.97
			For Gate With Single Barb Wire Arm, Add	146.23	
			For Gate With Double Barb Wire Arm, Add	212.70	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-249.26	
			For Aluminized Steel Gate And Post, Add	638.11	
			For Powder Coated Gate And Post, Add	345.64	
32 31 13 13-0286	EA	30'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,789.86	105.47
			For Gate With Single Barb Wire Arm, Add	162.04	
			For Gate With Double Barb Wire Arm, Add	235.70	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-276.21	
			For Aluminized Steel Gate And Post, Add	707.10	
			For Powder Coated Gate And Post, Add	383.01	
32 31 13 13-0287			5' Fence Height (32 31 13 13-0266)		
32 31 13 13-0288	EA	3'	Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	212.73	20.29
			For Gate With Single Barb Wire Arm, Add	16.69	
			For Gate With Double Barb Wire Arm, Add	24.27	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-28.44	
			For Aluminized Steel Gate And Post, Add	72.82	
			For Powder Coated Gate And Post, Add	39.44	
32 31 13 13-0289	EA	4'	Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	262.64	20.29
			For Gate With Single Barb Wire Arm, Add	22.18	
			For Gate With Double Barb Wire Arm, Add	32.26	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.80	
			For Aluminized Steel Gate And Post, Add	96.77	
			For Powder Coated Gate And Post, Add	52.42	
32 31 13 13-0290	EA	5'	Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	304.39	21.59
			For Gate With Single Barb Wire Arm, Add	26.35	
			For Gate With Double Barb Wire Arm, Add	38.32	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-44.91	
			For Aluminized Steel Gate And Post, Add	114.97	
			For Powder Coated Gate And Post, Add	62.28	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0291	EA	6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	357.28	25.94
		For Gate With Single Barb Wire Arm, Add	30.74	
		For Gate With Double Barb Wire Arm, Add	44.71	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-52.40	
		For Aluminized Steel Gate And Post, Add	134.14	
		For Powder Coated Gate And Post, Add	72.66	
32 31 13 13-0292	EA	7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	406.18	30.21
		For Gate With Single Barb Wire Arm, Add	34.69	
		For Gate With Double Barb Wire Arm, Add	50.46	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.13	
		For Aluminized Steel Gate And Post, Add	151.38	
		For Powder Coated Gate And Post, Add	82.00	
32 31 13 13-0293	EA	8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	459.83	34.80
		For Gate With Single Barb Wire Arm, Add	39.08	
		For Gate With Double Barb Wire Arm, Add	56.85	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.62	
		For Aluminized Steel Gate And Post, Add	170.55	
		For Powder Coated Gate And Post, Add	92.38	
32 31 13 13-0294	EA	9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	510.73	39.14
		For Gate With Single Barb Wire Arm, Add	43.26	
		For Gate With Double Barb Wire Arm, Add	62.92	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.73	
		For Aluminized Steel Gate And Post, Add	188.75	
		For Powder Coated Gate And Post, Add	102.24	
32 31 13 13-0295	EA	10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	561.63	43.41
		For Gate With Single Barb Wire Arm, Add	47.43	
		For Gate With Double Barb Wire Arm, Add	68.99	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-80.84	
		For Aluminized Steel Gate And Post, Add	206.96	
		For Powder Coated Gate And Post, Add	112.10	
32 31 13 13-0296	EA	10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	739.21	43.57
		For Gate With Single Barb Wire Arm, Add	66.93	
		For Gate With Double Barb Wire Arm, Add	97.35	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-114.08	
		For Aluminized Steel Gate And Post, Add	292.04	
		For Powder Coated Gate And Post, Add	158.19	
32 31 13 13-0297	EA	12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	871.42	46.92
		For Gate With Single Barb Wire Arm, Add	80.36	
		For Gate With Double Barb Wire Arm, Add	116.89	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-136.98	
		For Aluminized Steel Gate And Post, Add	350.67	
		For Powder Coated Gate And Post, Add	189.95	
32 31 13 13-0298	EA	14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,005.33	50.81
		For Gate With Single Barb Wire Arm, Add	93.80	
		For Gate With Double Barb Wire Arm, Add	136.44	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-159.89	
		For Aluminized Steel Gate And Post, Add	409.31	
		For Powder Coated Gate And Post, Add	221.71	
32 31 13 13-0299	EA	16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,164.94	63.25
		For Gate With Single Barb Wire Arm, Add	107.24	
		For Gate With Double Barb Wire Arm, Add	155.98	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-182.79	
		For Aluminized Steel Gate And Post, Add	467.95	
		For Powder Coated Gate And Post, Add	253.47	
32 31 13 13-0300	EA	18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,298.27	67.79
		For Gate With Single Barb Wire Arm, Add	120.41	
		For Gate With Double Barb Wire Arm, Add	175.15	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-205.25	
		For Aluminized Steel Gate And Post, Add	525.44	
		For Powder Coated Gate And Post, Add	284.61	
32 31 13 13-0301	EA	20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,438.50	73.05
		For Gate With Single Barb Wire Arm, Add	134.11	
		For Gate With Double Barb Wire Arm, Add	195.08	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-228.60	
		For Aluminized Steel Gate And Post, Add	585.23	
		For Powder Coated Gate And Post, Add	317.00	
32 31 13 13-0302	EA	22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,578.93	79.10
		For Gate With Single Barb Wire Arm, Add	147.55	
		For Gate With Double Barb Wire Arm, Add	214.62	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-251.51	
		For Aluminized Steel Gate And Post, Add	643.86	
		For Powder Coated Gate And Post, Add	348.76	
32 31 13 13-0303	EA	24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,720.30	86.32
		For Gate With Single Barb Wire Arm, Add	160.73	
		For Gate With Double Barb Wire Arm, Add	233.78	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-273.97	
		For Aluminized Steel Gate And Post, Add	701.35	
		For Powder Coated Gate And Post, Add	379.90	
32 31 13 13-0304	EA	26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,870.76	94.97
		For Gate With Single Barb Wire Arm, Add	174.43	
		For Gate With Double Barb Wire Arm, Add	253.71	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-297.32	
		For Aluminized Steel Gate And Post, Add	761.14	
		For Powder Coated Gate And Post, Add	412.28	



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0305	EA		28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,023.09 187.70 273.02 -319.94 819.05 443.65	105.47
32 31 13 13-0306	EA		30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,181.56 200.78 292.04 -342.23 876.11 474.56	118.66
32 31 13 13-0307 6' Fence Height (32 31 13 13-0266)					
32 31 13 13-0308	EA		3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	228.07 17.89 26.03 -30.50 78.09 42.30	21.74
32 31 13 13-0309	EA		4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	281.97 23.82 34.65 -40.61 103.96 56.31	21.74
32 31 13 13-0310	EA		5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	327.24 28.36 41.25 -48.34 123.74 67.03	23.12
32 31 13 13-0311	EA		6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	381.35 32.72 47.59 -55.77 142.76 77.33	27.93
32 31 13 13-0312	EA		7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	437.76 37.33 54.29 -63.63 162.88 88.23	32.80
32 31 13 13-0313	EA		8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	491.41 41.72 60.68 -71.11 182.04 98.61	37.39
32 31 13 13-0314	EA		9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	545.83 46.11 67.07 -78.60 201.21 108.99	42.19
32 31 13 13-0315	EA		10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	582.28 48.53 70.58 -82.71 211.75 114.70	47.00
32 31 13 13-0316	EA		10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	789.98 71.40 103.86 -121.71 311.58 168.77	46.92
32 31 13 13-0317	EA		12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	931.08 85.63 124.56 -145.97 373.67 202.40	50.81
32 31 13 13-0318	EA		14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,113.83 100.12 145.64 -170.67 436.91 236.66	67.79

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0319	EA	16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,258.85	73.05
		For Gate With Single Barb Wire Arm, Add	114.35	
		For Gate With Double Barb Wire Arm, Add	166.33	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-194.92	
		For Aluminized Steel Gate And Post, Add	498.99	
		For Powder Coated Gate And Post, Add	270.29	
32 31 13 13-0320	EA	18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,408.86	79.10
		For Gate With Single Barb Wire Arm, Add	128.84	
		For Gate With Double Barb Wire Arm, Add	187.41	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-219.62	
		For Aluminized Steel Gate And Post, Add	562.23	
		For Powder Coated Gate And Post, Add	304.54	
32 31 13 13-0321	EA	20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,562.20	86.32
		For Gate With Single Barb Wire Arm, Add	143.34	
		For Gate With Double Barb Wire Arm, Add	208.49	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-244.32	
		For Aluminized Steel Gate And Post, Add	625.46	
		For Powder Coated Gate And Post, Add	338.79	
32 31 13 13-0322	EA	22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,717.46	94.97
		For Gate With Single Barb Wire Arm, Add	157.56	
		For Gate With Double Barb Wire Arm, Add	229.18	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-268.58	
		For Aluminized Steel Gate And Post, Add	687.55	
		For Powder Coated Gate And Post, Add	372.42	
32 31 13 13-0323	EA	24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,879.69	105.47
		For Gate With Single Barb Wire Arm, Add	171.92	
		For Gate With Double Barb Wire Arm, Add	250.07	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-293.05	
		For Aluminized Steel Gate And Post, Add	750.22	
		For Powder Coated Gate And Post, Add	406.37	
32 31 13 13-0324	EA	26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,048.38	118.66
		For Gate With Single Barb Wire Arm, Add	186.13	
		For Gate With Double Barb Wire Arm, Add	270.73	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-317.26	
		For Aluminized Steel Gate And Post, Add	812.18	
		For Powder Coated Gate And Post, Add	439.93	
32 31 13 13-0325	EA	28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,230.08	135.59
		For Gate With Single Barb Wire Arm, Add	200.51	
		For Gate With Double Barb Wire Arm, Add	291.65	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-341.78	
		For Aluminized Steel Gate And Post, Add	874.96	
		For Powder Coated Gate And Post, Add	473.94	
32 31 13 13-0326	EA	30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,428.96	158.21
		For Gate With Single Barb Wire Arm, Add	214.92	
		For Gate With Double Barb Wire Arm, Add	312.62	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-366.35	
		For Aluminized Steel Gate And Post, Add	937.85	
		For Powder Coated Gate And Post, Add	508.00	
32 31 13 13-0327 7' Fence Height (32 31 13 13-0266)				
32 31 13 13-0328	EA	3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	240.10	23.42
		For Gate With Single Barb Wire Arm, Add	18.66	
		For Gate With Double Barb Wire Arm, Add	27.15	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-31.81	
		For Aluminized Steel Gate And Post, Add	81.44	
		For Powder Coated Gate And Post, Add	44.11	
32 31 13 13-0329	EA	4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	295.99	23.42
		For Gate With Single Barb Wire Arm, Add	24.81	
		For Gate With Double Barb Wire Arm, Add	36.09	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-42.29	
		For Aluminized Steel Gate And Post, Add	108.27	
		For Powder Coated Gate And Post, Add	58.65	
32 31 13 13-0330	EA	5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	344.84	24.64
		For Gate With Single Barb Wire Arm, Add	29.79	
		For Gate With Double Barb Wire Arm, Add	43.33	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.78	
		For Aluminized Steel Gate And Post, Add	130.00	
		For Powder Coated Gate And Post, Add	70.42	
32 31 13 13-0331	EA	6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	422.34	29.99
		For Gate With Single Barb Wire Arm, Add	36.55	
		For Gate With Double Barb Wire Arm, Add	53.17	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.31	
		For Aluminized Steel Gate And Post, Add	159.51	
		For Powder Coated Gate And Post, Add	86.40	
32 31 13 13-0332	EA	7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	499.09	35.10
		For Gate With Single Barb Wire Arm, Add	43.32	
		For Gate With Double Barb Wire Arm, Add	63.01	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.84	
		For Aluminized Steel Gate And Post, Add	189.03	
		For Powder Coated Gate And Post, Add	102.39	



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0333	EA 8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	576.60 50.08 72.85 -85.37 218.54 118.38	40.36
32 31	13	13-0334	EA 9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	653.36 56.85 82.69 -96.90 248.06 134.37	45.47
32 31	13	13-0335	EA 10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	719.79 62.39 90.75 -106.35 272.25 147.47	50.81
32 31	13	13-0336	EA 10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	897.11 81.90 119.12 -139.60 357.36 193.57	50.81
32 31	13	13-0337	EA 12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,031.45 91.06 132.45 -155.22 397.36 215.24	67.79
32 31	13	13-0338	EA 14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,185.09 106.24 154.53 -181.09 463.59 251.11	73.05
32 31	13	13-0339	EA 16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,329.82 120.15 174.76 -204.80 524.29 283.99	79.10
32 31	13	13-0340	EA 18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,490.34 135.43 196.99 -230.85 590.97 320.11	86.32
32 31	13	13-0341	EA 20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,652.79 150.45 218.84 -256.45 656.51 355.61	94.97
32 31	13	13-0342	EA 22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,821.00 165.47 240.68 -282.05 722.04 391.11	105.47
32 31	13	13-0343	EA 24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,997.12 180.49 262.53 -307.65 787.58 426.61	118.66
32 31	13	13-0344	EA 26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,184.57 195.51 284.37 -333.25 853.12 462.11	135.59
32 31	13	13-0345	EA 28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,388.96 210.52 306.22 -358.85 918.65 497.60	158.21
32 31	13	13-0346	EA 30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,620.52 225.54 328.06 -384.45 984.19 533.10	189.83

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 31 13 13-0347	8' Fence Height (32 31 13 13-0266)				
32 31 13 13-0348	EA 3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	278.92		25.40	
	For Gate With Single Barb Wire Arm, Add	22.29			
	For Gate With Double Barb Wire Arm, Add	32.42			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.99			
	For Aluminized Steel Gate And Post, Add	97.26			
	For Powder Coated Gate And Post, Add	52.68			
32 31 13 13-0349	EA 4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	346.47		25.40	
	For Gate With Single Barb Wire Arm, Add	29.72			
	For Gate With Double Barb Wire Arm, Add	43.23			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.66			
	For Aluminized Steel Gate And Post, Add	129.69			
	For Powder Coated Gate And Post, Add	70.25			
32 31 13 13-0350	EA 5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	402.84		28.31	
	For Gate With Single Barb Wire Arm, Add	34.95			
	For Gate With Double Barb Wire Arm, Add	50.84			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.58			
	For Aluminized Steel Gate And Post, Add	152.52			
	For Powder Coated Gate And Post, Add	82.62			
32 31 13 13-0351	EA 6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	461.48		32.05	
	For Gate With Single Barb Wire Arm, Add	40.19			
	For Gate With Double Barb Wire Arm, Add	58.46			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.50			
	For Aluminized Steel Gate And Post, Add	175.37			
	For Powder Coated Gate And Post, Add	94.99			
32 31 13 13-0352	EA 7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	528.90		38.60	
	For Gate With Single Barb Wire Arm, Add	45.42			
	For Gate With Double Barb Wire Arm, Add	66.07			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.42			
	For Aluminized Steel Gate And Post, Add	198.21			
	For Powder Coated Gate And Post, Add	107.36			
32 31 13 13-0353	EA 8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	595.56		44.94	
	For Gate With Single Barb Wire Arm, Add	50.66			
	For Gate With Double Barb Wire Arm, Add	73.68			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-86.35			
	For Aluminized Steel Gate And Post, Add	221.05			
	For Powder Coated Gate And Post, Add	119.74			
32 31 13 13-0354	EA 9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	662.99		51.58	
	For Gate With Single Barb Wire Arm, Add	55.89			
	For Gate With Double Barb Wire Arm, Add	81.30			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-95.27			
	For Aluminized Steel Gate And Post, Add	243.89			
	For Powder Coated Gate And Post, Add	132.11			
32 31 13 13-0355	EA 10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	730.40		58.22	
	For Gate With Single Barb Wire Arm, Add	61.13			
	For Gate With Double Barb Wire Arm, Add	88.91			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-104.19			
	For Aluminized Steel Gate And Post, Add	266.73			
	For Powder Coated Gate And Post, Add	144.48			
32 31 13 13-0356	EA 10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	1,037.16		67.79	
	For Gate With Single Barb Wire Arm, Add	91.69			
	For Gate With Double Barb Wire Arm, Add	133.37			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-156.29			
	For Aluminized Steel Gate And Post, Add	400.10			
	For Powder Coated Gate And Post, Add	216.72			
32 31 13 13-0357	EA 12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	1,213.34		73.05	
	For Gate With Single Barb Wire Arm, Add	109.35			
	For Gate With Double Barb Wire Arm, Add	159.05			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-186.39			
	For Aluminized Steel Gate And Post, Add	477.15			
	For Powder Coated Gate And Post, Add	258.46			
32 31 13 13-0358	EA 14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	1,394.49		79.10	
	For Gate With Single Barb Wire Arm, Add	127.26			
	For Gate With Double Barb Wire Arm, Add	185.11			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-216.93			
	For Aluminized Steel Gate And Post, Add	555.33			
	For Powder Coated Gate And Post, Add	300.80			
32 31 13 13-0359	EA 16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	1,583.76		86.32	
	For Gate With Single Barb Wire Arm, Add	145.71			
	For Gate With Double Barb Wire Arm, Add	211.94			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-248.36			
	For Aluminized Steel Gate And Post, Add	635.81			
	For Powder Coated Gate And Post, Add	344.40			
32 31 13 13-0360	EA 18' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	1,777.34		94.97	
	For Gate With Single Barb Wire Arm, Add	164.15			
	For Gate With Double Barb Wire Arm, Add	238.76			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-279.80			
	For Aluminized Steel Gate And Post, Add	716.29			
	For Powder Coated Gate And Post, Add	387.99			
32 31 13 13-0361	EA 20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	1,974.30		105.47	
	For Gate With Single Barb Wire Arm, Add	182.33			
	For Gate With Double Barb Wire Arm, Add	265.21			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-310.79			
	For Aluminized Steel Gate And Post, Add	795.63			
	For Powder Coated Gate And Post, Add	430.97			



Exterior Improvements		32	32
Site Improvements		32 30	
Fences And Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0362	EA	22'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,176.77 200.25 291.27 -341.33 873.81 473.31	118.66
32 31 13 13-0363	EA	24'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,395.36 218.69 318.10 -372.77 954.30 516.91	135.59
32 31 13 13-0364	EA	26'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,630.89 237.14 344.93 -404.21 1,034.78 560.51	158.21
32 31 13 13-0365	EA	28'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,891.20 255.32 371.37 -435.20 1,114.11 603.48	189.83
32 31 13 13-0366	EA	30'	Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	3,199.01 273.50 397.81 -466.19 1,193.44 646.45	237.32
32 31 13 13-0367 10' Fence Height (32 31 13 13-0266)					
32 31 13 13-0368	EA	3'	Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	346.80 28.82 41.92 -49.13 125.77 68.13	28.23
32 31 13 13-0369	EA	4'	Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	434.15 38.43 55.90 -65.51 167.70 90.84	28.23
32 31 13 13-0370	EA	5'	Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	499.42 45.20 65.75 -77.05 197.24 106.84	29.45
32 31 13 13-0371	EA	6'	Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	582.32 51.97 75.59 -88.59 226.78 122.84	36.62
32 31 13 13-0372	EA	7'	Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	664.78 58.74 85.44 -100.12 256.31 138.83	43.41
32 31 13 13-0373	EA	8'	Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	747.34 65.51 95.28 -111.66 285.85 154.84	50.58
32 31 13 13-0374	EA	9'	Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	829.48 72.28 105.13 -123.20 315.39 170.84	57.45
32 31 13 13-0375	EA	10'	Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	912.39 79.05 114.98 -134.74 344.93 186.84	64.55

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0376	EA	10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	1,304.12	75.37
		For Gate With Single Barb Wire Arm, Add	118.57	
		For Gate With Double Barb Wire Arm, Add	172.46	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-202.10	
		For Aluminized Steel Gate And Post, Add	517.38	
		For Powder Coated Gate And Post, Add	280.25	
32 31 13 13-0377	EA	12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	1,417.29	81.06
		For Gate With Single Barb Wire Arm, Add	129.11	
		For Gate With Double Barb Wire Arm, Add	187.80	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-220.07	
		For Aluminized Steel Gate And Post, Add	563.39	
		For Powder Coated Gate And Post, Add	305.17	
32 31 13 13-0378	EA	14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	1,610.12	87.92
		For Gate With Single Barb Wire Arm, Add	148.08	
		For Gate With Double Barb Wire Arm, Add	215.39	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-252.41	
		For Aluminized Steel Gate And Post, Add	646.16	
		For Powder Coated Gate And Post, Add	350.00	
32 31 13 13-0379	EA	16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	1,825.63	95.86
		For Gate With Single Barb Wire Arm, Add	169.16	
		For Gate With Double Barb Wire Arm, Add	246.05	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-288.34	
		For Aluminized Steel Gate And Post, Add	738.14	
		For Powder Coated Gate And Post, Add	399.83	
32 31 13 13-0380	EA	18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,046.16	105.47
		For Gate With Single Barb Wire Arm, Add	190.24	
		For Gate With Double Barb Wire Arm, Add	276.71	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-324.27	
		For Aluminized Steel Gate And Post, Add	830.12	
		For Powder Coated Gate And Post, Add	449.65	
32 31 13 13-0381	EA	20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,274.00	117.14
		For Gate With Single Barb Wire Arm, Add	211.45	
		For Gate With Double Barb Wire Arm, Add	307.56	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-360.42	
		For Aluminized Steel Gate And Post, Add	922.68	
		For Powder Coated Gate And Post, Add	499.78	
32 31 13 13-0382	EA	22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,511.00	131.84
		For Gate With Single Barb Wire Arm, Add	232.66	
		For Gate With Double Barb Wire Arm, Add	338.41	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-396.58	
		For Aluminized Steel Gate And Post, Add	1,015.23	
		For Powder Coated Gate And Post, Add	549.92	
32 31 13 13-0383	EA	24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,758.88	150.55
		For Gate With Single Barb Wire Arm, Add	253.74	
		For Gate With Double Barb Wire Arm, Add	369.07	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-432.50	
		For Aluminized Steel Gate And Post, Add	1,107.21	
		For Powder Coated Gate And Post, Add	599.74	
32 31 13 13-0384	EA	26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,026.22	175.77
		For Gate With Single Barb Wire Arm, Add	274.82	
		For Gate With Double Barb Wire Arm, Add	399.73	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-468.44	
		For Aluminized Steel Gate And Post, Add	1,199.19	
		For Powder Coated Gate And Post, Add	649.56	
32 31 13 13-0385	EA	28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,322.86	210.77
		For Gate With Single Barb Wire Arm, Add	295.89	
		For Gate With Double Barb Wire Arm, Add	430.39	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-504.36	
		For Aluminized Steel Gate And Post, Add	1,291.17	
		For Powder Coated Gate And Post, Add	699.38	
32 31 13 13-0386	EA	30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,675.81	263.69
		For Gate With Single Barb Wire Arm, Add	317.24	
		For Gate With Double Barb Wire Arm, Add	461.44	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-540.74	
		For Aluminized Steel Gate And Post, Add	1,384.31	
		For Powder Coated Gate And Post, Add	749.83	
32 31 13 13-0387		12' Fence Height (32 31 13 13-0266)		
32 31 13 13-0388	EA	3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	429.60	31.36
		For Gate With Single Barb Wire Arm, Add	36.89	
		For Gate With Double Barb Wire Arm, Add	53.66	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.89	
		For Aluminized Steel Gate And Post, Add	160.99	
		For Powder Coated Gate And Post, Add	87.20	
32 31 13 13-0389	EA	4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	541.40	31.36
		For Gate With Single Barb Wire Arm, Add	49.19	
		For Gate With Double Barb Wire Arm, Add	71.55	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-83.85	
		For Aluminized Steel Gate And Post, Add	214.66	
		For Powder Coated Gate And Post, Add	116.27	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences And Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0390	EA 5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	623.63 57.86 84.16 -98.62 252.47 136.75	32.50
32 31	13	13-0391	EA 6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	726.05 66.52 96.76 -113.39 290.28 157.23	40.36
32 31	13	13-0392	EA 7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	417.52 29.98 43.61 -51.11 130.83 70.87	48.30
32 31	13	13-0393	EA 8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	471.83 33.44 48.64 -56.99 145.91 79.03	55.92
32 31	13	13-0394	EA 9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	526.88 36.89 53.66 -62.88 160.98 87.20	63.78
32 31	13	13-0395	EA 10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	581.95 40.35 58.69 -68.77 176.06 95.37	71.64
32 31	13	13-0396	EA 10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	762.41 56.21 81.76 -95.82 245.29 132.87	83.74
32 31	13	13-0397	EA 12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	832.22 61.78 89.87 -105.31 269.60 146.03	90.15
32 31	13	13-0398	EA 14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	937.08 70.82 103.01 -120.71 309.02 167.39	97.63
32 31	13	13-0399	EA 16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,055.37 80.91 117.68 -137.91 353.04 191.23	106.45
32 31	13	13-0400	EA 18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,426.11 228.18 331.90 -388.94 995.69 539.33	117.23
32 31	13	13-0401	EA 20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,697.41 253.74 369.07 -432.50 1,107.21 599.74	130.15
32 31	13	13-0402	EA 22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,976.55 279.03 405.86 -475.62 1,217.59 659.53	146.45
32 31	13	13-0403	EA 24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	3,271.43 304.59 443.04 -519.19 1,329.12 719.94	167.29

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0404	EA	26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	3,583.10	195.36
		For Gate With Single Barb Wire Arm, Add	329.62	
		For Gate With Double Barb Wire Arm, Add	479.45	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-561.85	
		For Aluminized Steel Gate And Post, Add	1,438.34	
		For Powder Coated Gate And Post, Add	779.10	
32 31 13 13-0405	EA	28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	3,929.74	234.20
		For Gate With Single Barb Wire Arm, Add	354.92	
		For Gate With Double Barb Wire Arm, Add	516.24	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-604.97	
		For Aluminized Steel Gate And Post, Add	1,548.72	
		For Powder Coated Gate And Post, Add	838.89	
32 31 13 13-0406	EA	30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	4,338.67	293.00
		For Gate With Single Barb Wire Arm, Add	380.47	
		For Gate With Double Barb Wire Arm, Add	553.41	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-648.53	
		For Aluminized Steel Gate And Post, Add	1,660.24	
		For Powder Coated Gate And Post, Add	899.30	
32 31 13 13-0407		Vinyl Coated Without Barb Wire Arm (32 31 13 13-0265)		
		Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0408		4' Fence Height (32 31 13 13-0407)		
32 31 13 13-0409	EA	3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	120.96	19.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-11.95	
		For Gate With Single Barb Wire Arm, Add	7.01	
		For Gate With Double Barb Wire Arm, Add	10.20	
32 31 13 13-0410	EA	4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	142.20	19.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-15.93	
		For Gate With Single Barb Wire Arm, Add	9.35	
		For Gate With Double Barb Wire Arm, Add	13.60	
32 31 13 13-0411	EA	5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	163.72	20.29
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-19.25	
		For Gate With Single Barb Wire Arm, Add	11.30	
		For Gate With Double Barb Wire Arm, Add	16.43	
32 31 13 13-0412	EA	6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	193.64	24.41
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-22.58	
		For Gate With Single Barb Wire Arm, Add	13.24	
		For Gate With Double Barb Wire Arm, Add	19.26	
32 31 13 13-0413	EA	7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	223.55	28.46
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-25.89	
		For Gate With Single Barb Wire Arm, Add	15.19	
		For Gate With Double Barb Wire Arm, Add	22.10	
32 31 13 13-0414	EA	8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	253.47	32.50
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-29.21	
		For Gate With Single Barb Wire Arm, Add	17.14	
		For Gate With Double Barb Wire Arm, Add	24.93	
32 31 13 13-0415	EA	9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	283.38	36.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-32.53	
		For Gate With Single Barb Wire Arm, Add	19.09	
		For Gate With Double Barb Wire Arm, Add	27.76	
32 31 13 13-0416	EA	10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	313.29	40.66
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-35.85	
		For Gate With Single Barb Wire Arm, Add	21.03	
		For Gate With Double Barb Wire Arm, Add	30.60	
32 31 13 13-0417	EA	10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	377.03	40.66
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-47.81	
		For Gate With Single Barb Wire Arm, Add	28.05	
		For Gate With Double Barb Wire Arm, Add	40.79	
32 31 13 13-0418	EA	12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	436.75	43.57
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.37	
		For Gate With Single Barb Wire Arm, Add	33.65	
		For Gate With Double Barb Wire Arm, Add	48.95	
32 31 13 13-0419	EA	14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	497.79	46.92
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.93	
		For Gate With Single Barb Wire Arm, Add	39.26	
		For Gate With Double Barb Wire Arm, Add	57.11	
32 31 13 13-0420	EA	16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	560.53	50.81
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-76.49	
		For Gate With Single Barb Wire Arm, Add	44.87	
		For Gate With Double Barb Wire Arm, Add	65.27	
32 31 13 13-0421	EA	18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	648.96	63.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-86.05	
		For Gate With Single Barb Wire Arm, Add	50.48	
		For Gate With Double Barb Wire Arm, Add	73.43	
32 31 13 13-0422	EA	20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	713.52	67.79
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-95.61	
		For Gate With Single Barb Wire Arm, Add	56.09	
		For Gate With Double Barb Wire Arm, Add	81.59	



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0423	EA	22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm		780.18	73.05
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-105.17	
		For Gate With Single Barb Wire Arm, Add	.....	61.70	
		For Gate With Double Barb Wire Arm, Add	.....	89.74	
32 31 13 13-0424	EA	24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	849.44	79.10
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-114.73	
		For Gate With Single Barb Wire Arm, Add	.....	67.31	
		For Gate With Double Barb Wire Arm, Add	.....	97.90	
32 31 13 13-0425	EA	26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	922.03	86.32
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-124.29	
		For Gate With Single Barb Wire Arm, Add	.....	72.92	
		For Gate With Double Barb Wire Arm, Add	.....	106.06	
32 31 13 13-0426	EA	28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	998.93	94.97
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-133.85	
		For Gate With Single Barb Wire Arm, Add	.....	78.53	
		For Gate With Double Barb Wire Arm, Add	.....	114.22	
32 31 13 13-0427	EA	30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	1,081.61	105.47
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-143.41	
		For Gate With Single Barb Wire Arm, Add	.....	84.14	
		For Gate With Double Barb Wire Arm, Add	.....	122.38	
32 31 13 13-0428 5' Fence Height (32 31 13 13-0407)					
32 31 13 13-0429	EA	3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	140.01	20.29
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-14.81	
		For Gate With Single Barb Wire Arm, Add	.....	8.69	
		For Gate With Double Barb Wire Arm, Add	.....	12.64	
32 31 13 13-0430	EA	4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	166.34	20.29
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-19.75	
		For Gate With Single Barb Wire Arm, Add	.....	11.58	
		For Gate With Double Barb Wire Arm, Add	.....	16.85	
32 31 13 13-0431	EA	5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	189.91	21.59
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-23.45	
		For Gate With Single Barb Wire Arm, Add	.....	13.76	
		For Gate With Double Barb Wire Arm, Add	.....	20.01	
32 31 13 13-0432	EA	6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	222.61	25.94
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-27.15	
		For Gate With Single Barb Wire Arm, Add	.....	15.93	
		For Gate With Double Barb Wire Arm, Add	.....	23.17	
32 31 13 13-0433	EA	7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	255.35	30.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-30.85	
		For Gate With Single Barb Wire Arm, Add	.....	18.10	
		For Gate With Double Barb Wire Arm, Add	.....	26.33	
32 31 13 13-0434	EA	8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	288.81	34.80
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-34.55	
		For Gate With Single Barb Wire Arm, Add	.....	20.27	
		For Gate With Double Barb Wire Arm, Add	.....	29.49	
32 31 13 13-0435	EA	9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	321.54	39.14
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-38.26	
		For Gate With Single Barb Wire Arm, Add	.....	22.44	
		For Gate With Double Barb Wire Arm, Add	.....	32.65	
32 31 13 13-0436	EA	10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	354.25	43.41
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-41.96	
		For Gate With Single Barb Wire Arm, Add	.....	24.62	
		For Gate With Double Barb Wire Arm, Add	.....	35.80	
32 31 13 13-0437	EA	10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	446.72	43.57
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-59.24	
		For Gate With Single Barb Wire Arm, Add	.....	34.75	
		For Gate With Double Barb Wire Arm, Add	.....	50.55	
32 31 13 13-0438	EA	12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	519.96	46.92
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-71.08	
		For Gate With Single Barb Wire Arm, Add	.....	41.70	
		For Gate With Double Barb Wire Arm, Add	.....	60.66	
32 31 13 13-0439	EA	14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	594.89	50.81
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-82.93	
		For Gate With Single Barb Wire Arm, Add	.....	48.65	
		For Gate With Double Barb Wire Arm, Add	.....	70.77	
32 31 13 13-0440	EA	16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	695.52	63.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-94.78	
		For Gate With Single Barb Wire Arm, Add	.....	55.60	
		For Gate With Double Barb Wire Arm, Add	.....	80.88	
32 31 13 13-0441	EA	18' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	772.27	67.79
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-106.62	
		For Gate With Single Barb Wire Arm, Add	.....	62.55	
		For Gate With Double Barb Wire Arm, Add	.....	90.99	
32 31 13 13-0442	EA	20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	851.13	73.05
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-118.47	
		For Gate With Single Barb Wire Arm, Add	.....	69.50	
		For Gate With Double Barb Wire Arm, Add	.....	101.10	
32 31 13 13-0443	EA	22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	932.58	79.10
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-130.32	
		For Gate With Single Barb Wire Arm, Add	.....	76.45	
		For Gate With Double Barb Wire Arm, Add	.....	111.20	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0444	EA	24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,017.37 -142.17 83.40 121.32	86.32
32 31 13 13-0445	EA	26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,106.46 -154.01 90.35 131.42	94.97
32 31 13 13-0446	EA	28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,201.33 -165.86 97.30 141.53	105.47
32 31 13 13-0447	EA	30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,304.10 -177.71 104.25 151.64	118.66
32 31 13 13-0448 6' Fence Height (32 31 13 13-0407)				
32 31 13 13-0449	EA	3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	149.80 -15.83 9.29 13.51	21.74
32 31 13 13-0450	EA	4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	177.93 -21.10 12.38 18.01	21.74
32 31 13 13-0451	EA	5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	203.07 -25.06 14.70 21.38	23.12
32 31 13 13-0452	EA	6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	238.68 -29.02 17.02 24.76	27.93
32 31 13 13-0453	EA	7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	274.27 -32.97 19.34 28.14	32.80
32 31 13 13-0454	EA	8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	309.10 -36.93 21.66 31.51	37.39
32 31 13 13-0455	EA	9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	344.71 -40.89 23.99 34.89	42.19
32 31 13 13-0456	EA	10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	380.31 -44.84 26.31 38.27	47.00
32 31 13 13-0457	EA	10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	478.48 -63.31 37.14 54.02	46.92
32 31 13 13-0458	EA	12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	557.76 -75.97 44.57 64.83	50.81
32 31 13 13-0459	EA	14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	676.30 -88.63 52.00 75.63	67.79
32 31 13 13-0460	EA	16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	759.49 -101.29 59.42 86.43	73.05
32 31 13 13-0461	EA	18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	845.29 -113.95 66.85 97.24	79.10
32 31 13 13-0462	EA	20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	946.89 -128.95 75.65 110.04	86.32
32 31 13 13-0463	EA	22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,030.12 -139.70 81.96 119.21	94.97
32 31 13 13-0464	EA	24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,127.06 -151.94 89.14 129.65	105.47



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0465	EA	26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,234.17 -164.60 96.56 140.45	118.66
32 31 13 13-0466	EA	28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,352.61 -177.26 103.99 151.26	135.59
32 31 13 13-0467	EA	30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,488.00 -189.92 111.42 162.06	158.21
32 31 13 13-0468 7' Fence Height (32 31 13 13-0407)				
32 31 13 13-0469	EA	3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	159.08 -16.62 9.75 14.18	23.42
32 31 13 13-0470	EA	4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	188.64 -22.16 13.00 18.91	23.42
32 31 13 13-0471	EA	5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	214.39 -26.32 15.44 22.46	24.64
32 31 13 13-0472	EA	6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	252.57 -30.48 17.88 26.01	29.99
32 31 13 13-0473	EA	7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	289.99 -34.63 20.32 29.55	35.10
32 31 13 13-0474	EA	8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	328.19 -38.79 22.76 33.10	40.36
32 31 13 13-0475	EA	9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	365.61 -42.95 25.19 36.65	45.47
32 31 13 13-0476	EA	10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	403.81 -47.10 27.63 40.19	50.81
32 31 13 13-0477	EA	10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	507.24 -66.50 39.01 56.74	50.81
32 31 13 13-0478	EA	12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	629.17 -79.79 46.81 68.09	67.79
32 31 13 13-0479	EA	14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	715.78 -93.09 54.62 79.44	73.05
32 31 13 13-0480	EA	16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	804.96 -106.39 62.42 90.79	79.10
32 31 13 13-0481	EA	18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	897.50 -119.69 70.22 102.14	86.32
32 31 13 13-0482	EA	20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	994.33 -132.99 78.02 113.48	94.97
32 31 13 13-0483	EA	22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,096.92 -146.28 85.82 124.83	105.47
32 31 13 13-0484	EA	24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,207.45 -159.59 93.62 136.18	118.66
32 31 13 13-0485	EA	26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,329.30 -172.89 101.43 147.53	135.59

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0486	EA	28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,468.07 -186.18 109.23 158.88	158.21
32 31 13 13-0487	EA	30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,634.04 -199.48 117.03 170.23	189.83
32 31 13 13-0488 8' Fence Height (32 31 13 13-0407)				
32 31 13 13-0489	EA	3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	183.75 -20.15 11.82 17.19	25.40
32 31 13 13-0490	EA	4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	219.57 -26.87 15.76 22.92	25.40
32 31 13 13-0491	EA	5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	243.45 -31.34 18.39 26.75	25.40
32 31 13 13-0492	EA	6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	287.17 -35.82 21.01 30.57	32.05
32 31 13 13-0493	EA	7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	330.89 -40.30 23.64 34.39	38.60
32 31 13 13-0494	EA	8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	373.84 -44.78 26.27 38.21	44.94
32 31 13 13-0495	EA	9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	417.56 -49.25 28.89 42.03	51.58
32 31 13 13-0496	EA	10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	461.27 -53.73 31.52 45.85	58.22
32 31 13 13-0497	EA	10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	633.44 -80.59 47.28 68.77	67.79
32 31 13 13-0498	EA	12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	735.08 -96.71 56.74 82.53	73.05
32 31 13 13-0499	EA	14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	839.32 -112.83 66.19 96.28	79.10
32 31 13 13-0500	EA	16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	946.89 -128.95 75.65 110.04	86.32
32 31 13 13-0501	EA	18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,058.76 -145.07 85.11 123.79	94.97
32 31 13 13-0502	EA	20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,176.41 -161.19 94.56 137.55	105.47
32 31 13 13-0503	EA	22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,301.97 -177.31 104.02 151.30	118.66
32 31 13 13-0504	EA	24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,438.84 -193.43 113.48 165.06	135.59
32 31 13 13-0505	EA	26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,592.67 -209.54 122.93 178.81	158.21
32 31 13 13-0506	EA	28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,773.67 -225.66 132.39 192.57	189.83



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
32 31 13 13-0507	EA	30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,002.17 -241.78 141.85 206.32	237.32
32 31 13 13-0508 10' Fence Height (32 31 13 13-0407)				
32 31 13 13-0509	EA	3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	209.43 -23.37 13.71 19.95	28.23
32 31 13 13-0510	EA	4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	250.98 -31.16 18.28 26.59	28.23
32 31 13 13-0511	EA	5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	282.41 -36.36 21.33 31.03	29.45
32 31 13 13-0512	EA	6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	331.47 -41.55 24.38 35.46	36.62
32 31 13 13-0513	EA	7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	379.79 -46.75 27.43 39.89	43.41
32 31 13 13-0514	EA	8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	428.84 -51.94 30.47 44.32	50.58
32 31 13 13-0515	EA	9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	477.14 -57.14 33.52 48.76	57.45
32 31 13 13-0516	EA	10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	526.22 -62.33 36.57 53.19	64.55
32 31 13 13-0517	EA	10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	724.87 -93.49 54.85 79.78	75.37
32 31 13 13-0518	EA	12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	841.93 -112.19 65.82 95.74	81.06
32 31 13 13-0519	EA	14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	962.03 -130.89 76.79 111.69	87.92
32 31 13 13-0520	EA	16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,085.64 -149.59 87.76 127.65	95.86
32 31 13 13-0521	EA	18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,214.27 -168.29 98.73 143.60	105.47
32 31 13 13-0522	EA	20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,349.02 -186.99 109.70 159.56	117.14
32 31 13 13-0523	EA	22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,492.91 -205.68 120.67 175.52	131.84
32 31 13 13-0524	EA	24' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,648.90 -224.38 131.64 191.47	150.55
32 31 13 13-0525	EA	26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,824.34 -243.08 142.61 207.43	175.77
32 31 13 13-0526	EA	28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,029.08 -261.78 153.58 223.39	210.77
32 31 13 13-0527	EA	30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,287.73 -280.48 164.55 239.34	263.69

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0528			12' Fence Height (32 31 13 13-0407)		
32 31 13 13-0529	EA		3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	268.05	31.36
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-32.60	
			For Gate With Single Barb Wire Arm, Add	19.12	
			For Gate With Double Barb Wire Arm, Add	27.82	
32 31 13 13-0530	EA		4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	325.84	31.36
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-43.43	
			For Gate With Single Barb Wire Arm, Add	25.48	
			For Gate With Double Barb Wire Arm, Add	37.06	
32 31 13 13-0531	EA		5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	372.28	32.50
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-51.49	
			For Gate With Single Barb Wire Arm, Add	30.21	
			For Gate With Double Barb Wire Arm, Add	43.94	
32 31 13 13-0532	EA		6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	431.75	40.36
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-58.21	
			For Gate With Single Barb Wire Arm, Add	34.15	
			For Gate With Double Barb Wire Arm, Add	49.67	
32 31 13 13-0533	EA		7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	495.20	48.30
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-65.67	
			For Gate With Single Barb Wire Arm, Add	38.53	
			For Gate With Double Barb Wire Arm, Add	56.04	
32 31 13 13-0534	EA		8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	557.90	55.92
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.13	
			For Gate With Single Barb Wire Arm, Add	42.90	
			For Gate With Double Barb Wire Arm, Add	62.41	
32 31 13 13-0535	EA		9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	621.34	63.78
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-80.60	
			For Gate With Single Barb Wire Arm, Add	47.28	
			For Gate With Double Barb Wire Arm, Add	68.77	
32 31 13 13-0536	EA		10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	680.82	71.64
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-87.31	
			For Gate With Single Barb Wire Arm, Add	51.22	
			For Gate With Double Barb Wire Arm, Add	74.51	
32 31 13 13-0537	EA		10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	949.54	83.74
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-130.92	
			For Gate With Single Barb Wire Arm, Add	76.81	
			For Gate With Double Barb Wire Arm, Add	111.72	
32 31 13 13-0538	EA		12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,131.20	90.15
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.37	
			For Gate With Single Barb Wire Arm, Add	94.67	
			For Gate With Double Barb Wire Arm, Add	137.70	
32 31 13 13-0539	EA		14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,298.15	97.63
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-188.41	
			For Gate With Single Barb Wire Arm, Add	110.54	
			For Gate With Double Barb Wire Arm, Add	160.78	
32 31 13 13-0540	EA		16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,468.02	106.45
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-215.28	
			For Gate With Single Barb Wire Arm, Add	126.30	
			For Gate With Double Barb Wire Arm, Add	183.70	
32 31 13 13-0541	EA		18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,641.45	117.23
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-241.79	
			For Gate With Single Barb Wire Arm, Add	141.85	
			For Gate With Double Barb Wire Arm, Add	206.32	
32 31 13 13-0542	EA		20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,823.52	130.15
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-268.65	
			For Gate With Single Barb Wire Arm, Add	157.61	
			For Gate With Double Barb Wire Arm, Add	229.25	
32 31 13 13-0543	EA		22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,015.99	146.45
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-295.52	
			For Gate With Single Barb Wire Arm, Add	173.37	
			For Gate With Double Barb Wire Arm, Add	252.17	
32 31 13 13-0544	EA		24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,221.80	167.29
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-322.38	
			For Gate With Single Barb Wire Arm, Add	189.13	
			For Gate With Double Barb Wire Arm, Add	275.10	
32 31 13 13-0545	EA		26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,453.97	195.36
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-350.14	
			For Gate With Single Barb Wire Arm, Add	205.42	
			For Gate With Double Barb Wire Arm, Add	298.79	
32 31 13 13-0546	EA		28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,713.94	234.20
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-377.01	
			For Gate With Single Barb Wire Arm, Add	221.18	
			For Gate With Double Barb Wire Arm, Add	321.71	
32 31 13 13-0547	EA		30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,033.81	293.00
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-403.87	
			For Gate With Single Barb Wire Arm, Add	236.94	
			For Gate With Double Barb Wire Arm, Add	344.64	

32 31 13 13-0548 Sliding Gate (32 31 13 13-0265)

Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, rails, wheel, rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.

32 31 13 13-0549 4' High Sliding Gate (32 31 13 13-0548)



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0550	EA	10'	Long x 4' High Sliding Gate.....	1,702.88	289.16
			For Gate With Barb Wire Arm, Add	123.70	
			For Vinyl Coated, Add	337.35	
32 31 13 13-0551	EA	12'	Long x 4' High Sliding Gate.....	2,047.56	349.11
			For Gate With Barb Wire Arm, Add	148.44	
			For Vinyl Coated, Add	404.83	
32 31 13 13-0552	EA	14'	Long x 4' High Sliding Gate.....	2,388.97	407.29
			For Gate With Barb Wire Arm, Add	173.18	
			For Vinyl Coated, Add	472.30	
32 31 13 13-0553	EA	16'	Long x 4' High Sliding Gate.....	2,735.47	468.13
			For Gate With Barb Wire Arm, Add	197.92	
			For Vinyl Coated, Add	539.77	
32 31 13 13-0554	EA	18'	Long x 4' High Sliding Gate.....	3,077.43	526.65
			For Gate With Barb Wire Arm, Add	222.65	
			For Vinyl Coated, Add	607.24	
32 31 13 13-0555	EA	20'	Long x 4' High Sliding Gate.....	3,408.59	579.75
			For Gate With Barb Wire Arm, Add	247.39	
			For Vinyl Coated, Add	674.71	
32 31 13 13-0556	EA	24'	Long x 4' High Sliding Gate.....	4,075.32	698.14
			For Gate With Barb Wire Arm, Add	294.69	
			For Vinyl Coated, Add	803.71	
32 31 13 13-0557	EA	30'	Long x 4' High Sliding Gate.....	6,009.14	1,317.80
			For Gate With Barb Wire Arm, Add	371.09	
			For Vinyl Coated, Add	1,012.07	
32 31 13 13-0558	EA	40'	Long x 4' High Sliding Gate.....	8,012.18	1,757.07
			For Gate With Barb Wire Arm, Add	494.79	
			For Vinyl Coated, Add	1,349.42	
32 31 13 13-0559 5' High Sliding Gate (32 31 13 13-0548)					
32 31 13 13-0560	EA	10'	Long x 5' High Sliding Gate.....	1,787.02	314.73
			For Gate With Barb Wire Arm, Add	127.33	
			For Vinyl Coated, Add	347.27	
32 31 13 13-0561	EA	12'	Long x 5' High Sliding Gate.....	2,143.54	377.27
			For Gate With Barb Wire Arm, Add	152.80	
			For Vinyl Coated, Add	416.72	
32 31 13 13-0562	EA	14'	Long x 5' High Sliding Gate.....	2,500.65	440.07
			For Gate With Barb Wire Arm, Add	178.27	
			For Vinyl Coated, Add	486.18	
32 31 13 13-0563	EA	16'	Long x 5' High Sliding Gate.....	2,858.13	503.05
			For Gate With Barb Wire Arm, Add	203.73	
			For Vinyl Coated, Add	555.63	
32 31 13 13-0564	EA	18'	Long x 5' High Sliding Gate.....	3,215.19	565.76
			For Gate With Barb Wire Arm, Add	229.20	
			For Vinyl Coated, Add	625.09	
32 31 13 13-0565	EA	20'	Long x 5' High Sliding Gate.....	3,572.47	628.65
			For Gate With Barb Wire Arm, Add	254.66	
			For Vinyl Coated, Add	694.54	
32 31 13 13-0566	EA	24'	Long x 5' High Sliding Gate.....	4,268.30	755.25
			For Gate With Barb Wire Arm, Add	303.36	
			For Vinyl Coated, Add	827.33	
32 31 13 13-0567	EA	30'	Long x 5' High Sliding Gate.....	5,359.04	943.21
			For Gate With Barb Wire Arm, Add	382.00	
			For Vinyl Coated, Add	1,041.81	
32 31 13 13-0568	EA	40'	Long x 5' High Sliding Gate.....	7,144.95	1,257.32
			For Gate With Barb Wire Arm, Add	509.33	
			For Vinyl Coated, Add	1,389.08	
32 31 13 13-0569 6' High Sliding Gate (32 31 13 13-0548)					
32 31 13 13-0570	EA	10'	Long x 6' High Sliding Gate.....	1,918.60	368.98
			For Gate With Barb Wire Arm, Add	129.88	
			For Vinyl Coated, Add	354.21	
32 31 13 13-0571	EA	12'	Long x 6' High Sliding Gate.....	2,299.73	441.40
			For Gate With Barb Wire Arm, Add	155.85	
			For Vinyl Coated, Add	425.05	
32 31 13 13-0572	EA	14'	Long x 6' High Sliding Gate.....	2,682.84	514.90
			For Gate With Barb Wire Arm, Add	181.83	
			For Vinyl Coated, Add	495.89	
32 31 13 13-0573	EA	16'	Long x 6' High Sliding Gate.....	3,066.30	588.57
			For Gate With Barb Wire Arm, Add	207.80	
			For Vinyl Coated, Add	566.74	
32 31 13 13-0574	EA	18'	Long x 6' High Sliding Gate.....	3,449.42	662.07
			For Gate With Barb Wire Arm, Add	233.78	
			For Vinyl Coated, Add	637.58	
32 31 13 13-0575	EA	20'	Long x 6' High Sliding Gate.....	3,837.50	738.06
			For Gate With Barb Wire Arm, Add	259.75	
			For Vinyl Coated, Add	708.42	
32 31 13 13-0576	EA	24'	Long x 6' High Sliding Gate.....	4,578.66	882.90
			For Gate With Barb Wire Arm, Add	309.42	
			For Vinyl Coated, Add	843.87	
32 31 13 13-0577	EA	30'	Long x 6' High Sliding Gate.....	5,749.86	1,103.92
			For Gate With Barb Wire Arm, Add	389.63	
			For Vinyl Coated, Add	1,062.63	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0578	EA	40' Long x 6' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	7,665.26 519.51 1,416.84	1,471.20
32 31 13 13-0579		7' High Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0580	EA	10' Long x 7' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,050.09 134.97 368.09	411.57
32 31 13 13-0581	EA	12' Long x 7' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,459.48 161.97 441.72	493.52
32 31 13 13-0582	EA	14' Long x 7' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,870.18 188.95 515.33	576.18
32 31 13 13-0583	EA	16' Long x 7' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,279.50 215.95 588.95	658.15
32 31 13 13-0584	EA	18' Long x 7' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,689.56 242.94 662.57	740.55
32 31 13 13-0585	EA	20' Long x 7' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,099.06 269.93 736.19	822.59
32 31 13 13-0586	EA	24' Long x 7' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,897.27 321.54 876.94	987.03
32 31 13 13-0587	EA	30' Long x 7' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	6,148.57 404.90 1,104.27	1,233.80
32 31 13 13-0588	EA	40' Long x 7' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	8,198.11 539.87 1,472.36	1,645.09
32 31 13 13-0589		8' High Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0590	EA	10' Long x 8' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,155.05 138.97 379.00	445.85
32 31 13 13-0591	EA	12' Long x 8' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,583.50 166.76 454.80	533.79
32 31 13 13-0592	EA	14' Long x 8' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,014.12 194.55 530.60	622.77
32 31 13 13-0593	EA	16' Long x 8' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,444.94 222.35 606.40	711.77
32 31 13 13-0594	EA	18' Long x 8' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,874.74 250.14 682.19	800.41
32 31 13 13-0595	EA	20' Long x 8' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,305.64 277.93 758.00	889.49
32 31 13 13-0596	EA	24' Long x 8' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,144.74 331.07 902.92	1,067.47
32 31 13 13-0597	EA	30' Long x 8' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	6,459.12 416.90 1,136.99	1,334.55
32 31 13 13-0598	EA	40' Long x 8' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	8,609.50 555.86 1,515.99	1,778.09
32 31 13 13-0599		9' High Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0600	EA	10' Long x 9' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,279.07 143.69 391.89	486.39
32 31 13 13-0601	EA	12' Long x 9' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,731.27 172.43 470.27	581.89
32 31 13 13-0602	EA	14' Long x 9' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,186.27 201.17 548.64	678.72
32 31 13 13-0603	EA	16' Long x 9' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,642.03 229.91 627.02	776.00
32 31 13 13-0604	EA	18' Long x 9' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,097.19 258.65 705.40	872.93
32 31 13 13-0605	EA	20' Long x 9' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,552.32 287.38 783.77	969.84



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0606	EA	24' Long x 9' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,439.53 342.33 933.63	1,163.69
32 31 13 13-0607	EA	30' Long x 9' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	6,827.70 431.08 1,175.66	1,454.46
32 31 13 13-0608	EA	40' Long x 9' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	9,106.78 574.77 1,567.55	1,940.85
32 31 13 13-0609		10' High Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0610	EA	10' Long x 10' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,432.54 149.87 408.74	535.03
32 31 13 13-0611	EA	12' Long x 10' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,919.04 179.85 490.49	642.02
32 31 13 13-0612	EA	14' Long x 10' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,405.92 209.82 572.24	749.18
32 31 13 13-0613	EA	16' Long x 10' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,892.27 239.80 653.99	856.17
32 31 13 13-0614	EA	18' Long x 10' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,378.56 269.77 735.74	963.08
32 31 13 13-0615	EA	20' Long x 10' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,865.08 299.74 817.49	1,070.07
32 31 13 13-0616	EA	24' Long x 10' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,815.03 357.05 973.79	1,284.57
32 31 13 13-0617	EA	30' Long x 10' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	7,297.62 449.62 1,226.23	1,605.09
32 31 13 13-0618	EA	40' Long x 10' High Sliding Gate..... For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	9,727.58 599.49 1,634.97	2,138.88
32 31 13 13-0619		Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller (32 31 13 13-0260) Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, rails, wheel, rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0020 for gate operators.		
32 31 13 13-0620	EA	5' High x 10' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	2,560.39 203.25 295.64 886.91 388.02 554.32	356.33
32 31 13 13-0621	EA	5' High x 12' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	2,864.33 217.09 315.76 947.28 414.44 592.05	445.42
32 31 13 13-0622	EA	5' High x 15' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	3,170.01 231.11 336.16 1,008.48 441.21 630.30	534.49
32 31 13 13-0623	EA	5' High x 20' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	3,806.47 261.93 380.98 1,142.95 500.04 714.35	712.67
32 31 13 13-0624	EA	6' High x 15' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	3,589.12 238.02 346.21 1,038.62 454.40 649.14	712.67
32 31 13 13-0625	EA	6' High x 20' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	4,307.61 268.06 389.90 1,169.70 511.74 731.06	935.37

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0626	EA	6' High x 25' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	5,628.21 364.33 529.93 1,589.78 695.53 993.62	1,158.07
32 31 13 13-0627	EA	6' High x 30' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	6,416.83 402.08 584.84 1,754.52 767.60 1,096.58	1,380.79
32 31 13 13-0628	EA	8' High x 15' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	4,257.27 272.32 396.10 1,188.30 519.88 742.69	890.83
32 31 13 13-0629	EA	8' High x 20' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	5,192.80 306.63 446.01 1,338.03 585.39 836.27	1,202.62
32 31 13 13-0630	EA	8' High x 25' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	6,817.50 416.76 606.19 1,818.57 795.62 1,136.61	1,514.41
32 31 13 13-0631	EA	8' High x 30' Wide Galvanized Cantilever Sliding Gate..... For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	7,744.13 459.89 668.93 2,006.79 877.97 1,254.24	1,781.65
32 31 13 13-0632		Gate Accessories (32 31 13 13-0265)		
32 31 13 13-0633	EA	Gate Center Stop, Cast Steel, Ground.....	20.92	
32 31 13 13-0634	EA	Gate Latch, Malleable Galvanized Steel.....	31.45	
32 31 13 13-0635	EA	Gate Keeper, Full Length, Galvanized Steel.....	138.35	
32 31 13 13-0636	EA	Gate Keeper Hold-Open For Cantilever Gate.....	71.57	14.49
32 31 13 13-0637	EA	Heavy Duty Gate Latch, Malleable Galvanized Steel.....	40.54	
32 31 13 13-0638	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate.....	779.18	
32 31 13 13-0639	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 6' To 8' High Gate.....	835.29	
32 31 13 13-0640	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 10' To 12' High Gate.....	891.40	
32 31 13 13-0641		Pipe Gate (32 31 13 13-0265)		
32 31 13 13-0642	EA	20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	2,297.07	
32 31 13 13-0643	EA	25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	2,866.51	
32 31 13 13-0644	EA	30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	3,411.19	
32 31 13 13-0645		Vertical-Pivot Lift Gate (32 31 13 13-0265) Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.		
32 31 13 13-0646	EA	5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	9,169.28 239.00 245.00	668.12
32 31 13 13-0647	EA	5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	9,436.53 239.00 245.00	801.74
32 31 13 13-0648	EA	5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	9,703.78 239.00 245.00 287.50	935.37
32 31 13 13-0649	EA	5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	10,069.25 239.00 245.00 317.50	1,069.00
32 31 13 13-0650	EA	5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	10,429.80 239.00 245.00 317.50	1,202.62
32 31 13 13-0651	EA	6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	9,761.68 239.00 245.00	868.56



Exterior Improvements		32	32
Site Improvements		32 30	
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0652	EA		6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	10,028.94	1,002.18
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13 13-0653	EA		6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	10,296.18	1,135.81
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	287.50	
32 31 13 13-0654	EA		6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	10,617.46	1,269.43
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13 13-0655	EA		6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate.....	11,022.21	1,403.05
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13 13-0656 Reinforced Gate (32 31 13 13-0265)					
Note: With cross bracing, tension rods, gate keeper (full height, stainless steel rod, internal locking device, gate stop), off-set hinges, and 6 gauge fabric. Excludes gate posts.					
32 31 13 13-0657	LF		Reinforced Single Gate, 4' High, Galvanized.....	263.05	9.16
			For Vinyl Coated, Add	146.84	
			For Powder Coated, Add	195.79	
			For Aluminum Coated, Add	305.93	
32 31 13 13-0658	LF		Reinforced Single Gate, 5' High, Galvanized.....	282.33	9.92
			For Vinyl Coated, Add	157.49	
			For Powder Coated, Add	209.99	
			For Aluminum Coated, Add	328.11	
32 31 13 13-0659	LF		Reinforced Single Gate, 6' High, Galvanized.....	301.74	11.06
			For Vinyl Coated, Add	167.77	
			For Powder Coated, Add	223.69	
			For Aluminum Coated, Add	349.51	
32 31 13 13-0660	LF		Reinforced Single Gate, 7' High, Galvanized.....	319.79	11.82
			For Vinyl Coated, Add	177.68	
			For Powder Coated, Add	236.91	
			For Aluminum Coated, Add	370.18	
32 31 13 13-0661	LF		Reinforced Single Gate, 8' High, Galvanized.....	339.06	13.36
			For Vinyl Coated, Add	187.42	
			For Powder Coated, Add	249.89	
			For Aluminum Coated, Add	390.45	
32 31 13 13-0662	LF		Reinforced Double Gate, 4' High, Galvanized.....	182.24	9.16
			For Vinyl Coated, Add	98.36	
			For Powder Coated, Add	131.14	
			For Aluminum Coated, Add	204.91	
32 31 13 13-0663	LF		Reinforced Double Gate, 5' High, Galvanized.....	204.27	9.92
			For Vinyl Coated, Add	110.66	
			For Powder Coated, Add	147.54	
			For Aluminum Coated, Add	230.54	
32 31 13 13-0664	LF		Reinforced Double Gate, 6' High, Galvanized.....	226.33	11.06
			For Vinyl Coated, Add	122.52	
			For Powder Coated, Add	163.36	
			For Aluminum Coated, Add	255.25	
32 31 13 13-0665	LF		Reinforced Double Gate, 7' High, Galvanized.....	288.54	11.82
			For Vinyl Coated, Add	158.93	
			For Powder Coated, Add	211.91	
			For Aluminum Coated, Add	331.11	
32 31 13 13-0666	LF		Reinforced Double Gate, 8' High, Galvanized.....	350.81	13.36
			For Vinyl Coated, Add	194.47	
			For Powder Coated, Add	259.29	
			For Aluminum Coated, Add	405.14	
32 31 13 13-0667 Accessories (32 31 13 13)					
32 31 13 13-0668 Barbed And Concertina Wire (32 31 13 13-0667)					
32 31 13 13-0669 Single Strand Barbed Wire (32 31 13 13-0668)					
32 31 13 13-0670	LF		Galvanized Barbed Wire, Per Strand.....	0.82	0.38
			Note: Includes clips. 4 points 12-1/2 Gauge, Class I.		
			For >500 To 2,000, Deduct	-0.08	
			For >2,000, Deduct	-0.12	
32 31 13 13-0671	LF		Vinyl Coated Barbed Wire (Fused), Per Strand.....	0.91	0.38
			Note: Includes clips.		
			For >500 To 2,000, Deduct	-0.08	
			For >2,000, Deduct	-0.13	
32 31 13 13-0672	EA		Barbed Wire Extension Arms 3 Strands (Single Arm).....	8.53	6.10
32 31 13 13-0673	EA		Barbed Wire Extension Arms 6 Strands (Double Arm).....	13.30	7.32
32 31 13 13-0674	EA		Barbed Wire Eye Tops (For Single Strand).....	9.04	6.10
32 31 13 13-0675 Galvanized Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0668)					

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0676	LF	18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain			
		Link Fence, Per LF Of Fence.....	2.72	0.53	
		For >500 To 1,500, Deduct	-0.24		
		For >1,500 To 5,000, Deduct	-0.48		
		For >5,000, Deduct	-0.70		
		For Ground Installation, Deduct	-0.38		
		For Double Coil (Helix), Add	1.96		
32 31 13 13-0677	LF	18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain			
		Link Fence, Per LF Of Fence.....	4.09	0.53	
		For >500 To 1,500, Deduct	-0.36		
		For >1,500 To 5,000, Deduct	-0.73		
		For >5,000, Deduct	-1.05		
		For Ground Installation, Deduct	-0.57		
		For Double Coil (Helix), Add	2.95		
32 31 13 13-0678	LF	18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link			
		Fence, Per LF Of Fence.....	5.43	0.53	
		For >500 To 1,500, Deduct	-0.48		
		For >1,500 To 5,000, Deduct	-0.97		
		For >5,000, Deduct	-1.39		
		For Ground Installation, Deduct	-0.76		
		For Double Coil (Helix), Add	3.91		
32 31 13 13-0679	LF	24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain			
		Link Fence, Per LF Of Fence.....	3.37	0.53	
		For >500 To 1,500, Deduct	-0.30		
		For >1,500 To 5,000, Deduct	-0.59		
		For >5,000, Deduct	-0.84		
		For Ground Installation, Deduct	-0.43		
		For Double Coil (Helix), Add	2.52		
32 31 13 13-0680	LF	24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain			
		Link Fence, Per LF Of Fence.....	5.06	0.53	
		For >500 To 1,500, Deduct	-0.44		
		For >1,500 To 5,000, Deduct	-0.89		
		For >5,000, Deduct	-1.27		
		For Ground Installation, Deduct	-0.64		
		For Double Coil (Helix), Add	3.79		
32 31 13 13-0681	LF	24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link			
		Fence, Per LF Of Fence.....	6.70	0.53	
		For >500 To 1,500, Deduct	-0.59		
		For >1,500 To 5,000, Deduct	-1.17		
		For >5,000, Deduct	-1.68		
		For Ground Installation, Deduct	-0.84		
		For Double Coil (Helix), Add	5.02		
32 31 13 13-0682	LF	30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain			
		Link Fence, Per LF Of Fence.....	8.44	0.53	
		For >500 To 1,500, Deduct	-0.68		
		For >1,500 To 5,000, Deduct	-1.36		
		For >5,000, Deduct	-1.88		
		For Ground Installation, Deduct	-0.48		
		For Double Coil (Helix), Add	7.49		
32 31 13 13-0683	LF	30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain			
		Link Fence, Per LF Of Fence.....	12.77	0.53	
		For >500 To 1,500, Deduct	-1.03		
		For >1,500 To 5,000, Deduct	-2.06		
		For >5,000, Deduct	-2.84		
		For Ground Installation, Deduct	-0.72		
		For Double Coil (Helix), Add	11.34		
32 31 13 13-0684	LF	30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link			
		Fence, Per LF Of Fence.....	16.90	0.53	
		For >500 To 1,500, Deduct	-1.36		
		For >1,500 To 5,000, Deduct	-2.73		
		For >5,000, Deduct	-3.76		
		For Ground Installation, Deduct	-0.96		
		For Double Coil (Helix), Add	14.99		
32 31 13 13-0685		Stainless Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0668)			
32 31 13 13-0686	LF	18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	3.43	0.53	
		For >500 To 1,500, Deduct	-0.30		
		For >1,500 To 5,000, Deduct	-0.59		
		For >5,000, Deduct	-0.84		
		For Ground Installation, Deduct	-0.38		
		For Double Coil (Helix), Add	2.67		
32 31 13 13-0687	LF	18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	5.18	0.53	
		For >500 To 1,500, Deduct	-0.45		
		For >1,500 To 5,000, Deduct	-0.89		
		For >5,000, Deduct	-1.27		
		For Ground Installation, Deduct	-0.57		
		For Double Coil (Helix), Add	4.04		



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0688	LF		18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	6.86	0.53
			For >500 To 1,500, Deduct	-0.59	
			For >1,500 To 5,000, Deduct	-1.18	
			For >5,000, Deduct	-1.68	
			For Ground Installation, Deduct	-0.76	
			For Double Coil (Helix), Add	5.34	
32 31 13 13-0689	LF		24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	4.32	0.53
			For >500 To 1,500, Deduct	-0.37	
			For >1,500 To 5,000, Deduct	-0.73	
			For >5,000, Deduct	-1.03	
			For Ground Installation, Deduct	-0.43	
			For Double Coil (Helix), Add	3.47	
32 31 13 13-0690	LF		24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	6.51	0.53
			For >500 To 1,500, Deduct	-0.55	
			For >1,500 To 5,000, Deduct	-1.10	
			For >5,000, Deduct	-1.56	
			For Ground Installation, Deduct	-0.64	
			For Double Coil (Helix), Add	5.24	
32 31 13 13-0691	LF		24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	8.61	0.53
			For >500 To 1,500, Deduct	-0.73	
			For >1,500 To 5,000, Deduct	-1.46	
			For >5,000, Deduct	-2.06	
			For Ground Installation, Deduct	-0.84	
			For Double Coil (Helix), Add	6.93	
32 31 13 13-0692	LF		30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	12.04	0.53
			For >500 To 1,500, Deduct	-0.95	
			For >1,500 To 5,000, Deduct	-1.90	
			For >5,000, Deduct	-2.60	
			For Ground Installation, Deduct	-0.48	
			For Double Coil (Helix), Add	11.09	
32 31 13 13-0693	LF		30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	18.23	0.53
			For >500 To 1,500, Deduct	-1.44	
			For >1,500 To 5,000, Deduct	-2.88	
			For >5,000, Deduct	-3.93	
			For Ground Installation, Deduct	-0.72	
			For Double Coil (Helix), Add	16.80	
32 31 13 13-0694	LF		30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	24.11	0.53
			For >500 To 1,500, Deduct	-1.90	
			For >1,500 To 5,000, Deduct	-3.81	
			For >5,000, Deduct	-5.20	
			For Ground Installation, Deduct	-0.96	
			For Double Coil (Helix), Add	22.20	
32 31 13 13-0695			Grounding For Gates (32 31 13 13-0667) Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0696	OPN		Grounding For Gates (Per Opening).....	377.48	
32 31 13 13-0697			Coiled Spring Reinforcing Wire (32 31 13 13-0667)		
32 31 13 13-0698			Galvanized Steel (32 31 13 13-0697)		
32 31 13 13-0699	LF		7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring.....	0.90	0.38
32 31 13 13-0700			Vinyl Coated Steel (32 31 13 13-0697)		
32 31 13 13-0701	LF		9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring.....	0.90	0.38
32 31 13 13-0702			Bending Of Fabric Around Pipe Railings (32 31 13 13-0667) Note: Only where specified.		
32 31 13 13-0703	LF		Bend Chain Link Fence Fabric Around Pipe Railing, Top.....	1.21	
32 31 13 13-0704	LF		Bend Chain Link Fence Fabric Around Pipe Railing, Bottom.....	1.06	
32 31 13 13-0705			Mounting Plate With Anchors Or Bolts (32 31 13 13-0667) Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0706	EA		Mounting Plate For 1-5/8" Diameter Post.....	29.25	
32 31 13 13-0707	EA		Mounting Plate For 2" Diameter Post.....	29.68	
32 31 13 13-0708	EA		Mounting Plate For 2-1/2" Diameter Post.....	30.58	
32 31 13 13-0709	EA		Mounting Plate For 3" Diameter Post.....	36.48	
32 31 13 13-0710	EA		Mounting Plate For 4" Diameter Post.....	41.71	
32 31 13 13-0711	EA		Mounting Plate For 6-5/8" Diameter Post.....	48.02	
32 31 13 13-0712	EA		Mounting Plate For 8-5/8" Diameter Post.....	56.32	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0713 Tension Bar (32 31 13 13-0667)		
32 31 13 13-0714 EA 3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	10.60	
32 31 13 13-0715 EA 3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	11.25	
32 31 13 13-0716 EA 4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	13.43	
32 31 13 13-0717 EA 5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	15.39	
32 31 13 13-0718 EA 6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	17.92	
32 31 13 13-0719 EA 7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	20.55	
32 31 13 13-0720 EA 8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	23.16	
32 31 13 13-0721 EA 9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	27.44	
32 31 13 13-0722 EA 10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	32.76	
32 31 13 13-0723 Truss Rods (32 31 13 13-0667)		
32 31 13 13-0724 LF 3/8" Diameter Truss Rods.....	1.46	0.43
32 31 13 13-0725 Fence And Gate Repair And Replacement (32 31 13 13)		
32 31 13 13-0726 Fence And Gate Parts Replacement (32 31 13 13-0725)		
32 31 13 13-0727 EA Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement	87.56	
32 31 13 13-0728 EA Sliding Gate Roller Assembly Replacement	87.34	
32 31 13 13-0729 EA Rod And Lock Gate Keeper Replacement	86.26	
32 31 13 13-0730 EA Galvanized Gate Holdback Replacement	20.18	
32 31 13 13-0731 LF 3/8" Cross Bracing Rod Replacement.....	1.13	
32 31 13 13-0732 LF 1-5/8" Diagonal Pipe Bracing Replacement.....	1.74	
32 31 13 13-0733 EA 2-3/8" Diameter Cast Steel Gate Hinge With Bolts, Replacement	14.12	
32 31 13 13-0734 EA 3" Diameter Cast Steel Gate Hinge With Bolts, Replacement	15.92	
32 31 13 13-0735 EA 4" Diameter Cast Steel Gate Hinge With Bolts, Replacement	17.80	
32 31 13 13-0736 EA 6-5/8" Diameter Cast Steel Gate Hinge With Bolts, Replacement	34.71	
32 31 13 13-0737 EA 8-5/8" Diameter Cast Steel Gate Hinge With Bolts, Replacement	42.01	
32 31 13 13-0738 EA 2-1/2" x 2" Off Set Gate Hinge Replacement	18.39	
32 31 13 13-0739 EA 3" x 2" Off Set Gate Hinge Replacement	19.21	
32 31 13 13-0740 EA 4" x 2" Off Set Gate Hinge Replacement	20.52	
32 31 13 13-0741 EA 6-5/8" x 2" Off Set Gate Hinge Replacement	32.47	
32 31 13 13-0742 EA 8-5/8" x 2" Off Set Gate Hinge Replacement	50.08	
32 31 13 13-0743 EA 1-5/8" Aluminum Die-Cast Post Cap Replacement.....	4.18	
32 31 13 13-0744 EA 2" Aluminum Die-Cast Post Cap Replacement.....	4.58	
32 31 13 13-0745 EA 2-1/2" Aluminum Die-Cast Post Cap Replacement.....	5.27	
32 31 13 13-0746 EA 3" Aluminum Die-Cast Post Cap Replacement.....	6.07	
32 31 13 13-0747 EA 2" Galvanized Post Cap Replacement.....	4.78	
32 31 13 13-0748 EA 2-1/2" Galvanized Post Cap Replacement.....	5.18	
32 31 13 13-0749 EA 3" Galvanized Post Cap Replacement.....	5.91	
32 31 13 13-0750 EA 4" Galvanized Post Cap Replacement.....	8.51	
32 31 13 13-0751 EA 6-5/8" Galvanized Post Cap Replacement.....	15.26	
32 31 13 13-0752 EA 8-5/8" Galvanized Post Cap Replacement.....	24.71	
32 31 13 13-0753 EA 1-5/8" Boulevard Clamp Replacement.....	8.07	
32 31 13 13-0754 EA 2" Boulevard Clamp Replacement	9.82	
32 31 13 13-0755 EA 2-1/2" Boulevard Clamp Replacement	11.51	
32 31 13 13-0756 EA 3" Boulevard Clamp Replacement	13.98	
32 31 13 13-0757 EA 1-5/8" Gate Brace Or End Rail Clamp Replacement	7.94	
32 31 13 13-0758 EA 2" Gate Brace Or End Rail Clamp Replacement.....	9.63	
32 31 13 13-0759 EA 2-1/2" Gate Brace Or End Rail Clamp Replacement	11.32	
32 31 13 13-0760 EA 3" Gate Brace Or End Rail Clamp Replacement.....	13.78	
32 31 13 13-0761 EA 1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.22	
32 31 13 13-0762 EA 1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.28	
32 31 13 13-0763 EA 2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.45	
32 31 13 13-0764 EA 2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.37	
32 31 13 13-0765 EA 3" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.49	
32 31 13 13-0766 EA 3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.59	
32 31 13 13-0767 EA 4" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.89	
32 31 13 13-0768 EA 6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.00	
32 31 13 13-0769 Remove And Reinstall Chain Link Fences (32 31 13 13)		
Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work.		
32 31 13 13-0770 LF Removal And Reinstallation Of Chain Link Fence Up To 5' Height.....	15.26	
32 31 13 13-0771 LF Removal And Reinstallation Of Chain Link Fence 6' To 12' Height.....	22.89	
32 31 13 33 Chain Link Backstops (32 31 13)		
32 31 13 33-0001 Regulation Baseball Backstop (32 31 13 33)		
See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0002 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized.....	8,618.31	1,535.41
32 31 13 33-0003 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized.....	12,391.56	2,047.21
32 31 13 33-0004 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized	15,739.34	2,388.42
32 31 13 33-0005 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	11,948.09	1,535.41
32 31 13 33-0006 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated	17,373.98	2,047.21
32 31 13 33-0007 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	22,314.41	2,388.42



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 33-0008 Regulation Softball Backstop (32 31 13 33) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0009 14' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0010 EA 14' Softball Backstop, Galvanized Regulation	7,423.11	1,549.24
32 31 13 33-0011 EA 14' Softball Backstop, Vinyl Coated Regulation	9,811.28	1,549.24
32 31 13 33-0012 18' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0013 EA 18' Softball Backstop, Galvanized Regulation	8,642.27	1,722.32
32 31 13 33-0014 EA 18' Softball Backstop Vinyl Coated Regulation	11,531.20	1,722.32
32 31 13 33-0015 20' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0016 EA 20' Softball Backstop, Galvanized Regulation	9,749.11	1,815.95
32 31 13 33-0017 EA 20' Softball Backstop, Vinyl Coated Regulation	13,177.34	1,815.95
32 31 13 33-0018 22' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0019 EA 22' Softball Backstop, Galvanized Regulation	11,188.38	1,870.74
32 31 13 33-0020 EA 22' Softball Backstop, Vinyl Coated Regulation	15,309.91	1,870.74
32 31 13 33-0021 24' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0022 EA 24' Softball Backstop, Galvanized Regulation	13,264.26	2,137.99
32 31 13 33-0023 EA 24' Softball Backstop, Vinyl Coated Regulation	18,387.28	2,137.99
32 31 16 Welded Wire Fences And Gates (32 31)		
32 31 16 00-0001 Welded Wire Fence (32 31 16)		
32 31 16 00-0002 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0003 LF 3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'	7.35	1.36
32 31 16 00-0004 LF 5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'	7.84	1.36
32 31 16 00-0005 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0006 LF 3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'	7.25	1.36
32 31 16 00-0007 LF 5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'	7.69	1.36
32 31 19 Decorative Metal Fences And Gates (32 31) See CSI section 32 31 13 13-0001 for drilling and grouting.		
32 31 19 00-0001 Wrought Iron Fence (32 31 19) Note: Factory primed.		
32 31 19 00-0002 Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center (32 31 19 00-0001) Note: Factory primed.		
32 31 19 00-0003 LF 3' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	36.70	8.39
For Verticals Up To 2" On Center, Add	3.98	
For Verticals >2" To 2-1/2" On Center, Add	1.99	
For Verticals >3" To 4" On Center, Deduct	-1.99	
For Verticals >4" To 6" On Center, Deduct	-3.98	
32 31 19 00-0004 LF 4' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	47.01	10.69
For Verticals Up To 2" On Center, Add	5.28	
For Verticals >2" To 2-1/2" On Center, Add	2.64	
For Verticals >3" To 4" On Center, Deduct	-2.64	
For Verticals >4" To 6" On Center, Deduct	-5.28	
32 31 19 00-0005 LF 5' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	55.72	11.14
For Verticals Up To 2" On Center, Add	6.66	
For Verticals >2" To 2-1/2" On Center, Add	3.33	
For Verticals >3" To 4" On Center, Deduct	-3.33	
For Verticals >4" To 6" On Center, Deduct	-6.66	
32 31 19 00-0006 LF 6' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	67.43	13.42
For Verticals Up To 2" On Center, Add	8.10	
For Verticals >2" To 2-1/2" On Center, Add	4.05	
For Verticals >3" To 4" On Center, Deduct	-4.05	
For Verticals >4" To 6" On Center, Deduct	-8.10	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0007 LF 7' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center For Verticals Up To 2" On Center, Add For Verticals >2" To 2-1/2" On Center, Add For Verticals >3" To 4" On Center, Deduct For Verticals >4" To 6" On Center, Deduct	78.79 10.07 5.04 -5.04 -10.07	14.21
32 31 19 00-0008 LF 8' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center For Verticals Up To 2" On Center, Add For Verticals >2" To 2-1/2" On Center, Add For Verticals >3" To 4" On Center, Deduct For Verticals >4" To 6" On Center, Deduct	90.12 12.04 6.02 -6.02 -12.04	14.95
32 31 19 00-0009 LF 10' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center For Verticals Up To 2" On Center, Add For Verticals >2" To 2-1/2" On Center, Add For Verticals >3" To 4" On Center, Deduct For Verticals >4" To 6" On Center, Deduct	109.41 15.17 7.58 -7.58 -15.17	16.79
32 31 19 00-0010 LF 12' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center For Verticals Up To 2" On Center, Add For Verticals >2" To 2-1/2" On Center, Add For Verticals >3" To 4" On Center, Deduct For Verticals >4" To 6" On Center, Deduct	129.21 18.21 9.11 -9.11 -18.21	19.08
32 31 19 00-0011 Wrought Iron Gates (32 31 19 00-0001) Note: Factory primed.		
32 31 19 00-0012 Single Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.		
32 31 19 00-0013 LF 3' Single Wrought Iron Gate, Hardware And Associated Trim	45.14	10.22
32 31 19 00-0014 LF 4' Single Wrought Iron Gate, Hardware And Associated Trim	59.23	12.67
32 31 19 00-0015 LF 5' Single Wrought Iron Gate, Hardware And Associated Trim	72.27	15.26
32 31 19 00-0016 LF 6' Single Wrought Iron Gate, Hardware And Associated Trim	87.80	18.31
32 31 19 00-0017 LF 8' Single Wrought Iron Gate, Hardware And Associated Trim	117.13	20.29
32 31 19 00-0018 LF 10' Single Wrought Iron Gate, Hardware And Associated Trim	141.46	22.43
32 31 19 00-0019 LF 12' Single Wrought Iron Gate, Hardware And Associated Trim	165.35	25.48
32 31 19 00-0020 Double Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.		
32 31 19 00-0021 LF 3' Double Wrought Iron Gate, Hardware And Associated Trim	55.12	9.16
32 31 19 00-0022 LF 4' Double Wrought Iron Gate, Hardware And Associated Trim	72.31	11.44
32 31 19 00-0023 LF 5' Double Wrought Iron Gate, Hardware And Associated Trim	87.88	13.74
32 31 19 00-0024 LF 6' Double Wrought Iron Gate, Hardware And Associated Trim	106.44	16.48
32 31 19 00-0025 LF 8' Double Wrought Iron Gate, Hardware And Associated Trim	142.68	18.31
32 31 19 00-0026 LF 10' Double Wrought Iron Gate, Hardware And Associated Trim	172.61	20.15
32 31 19 00-0027 LF 12' Double Wrought Iron Gate, Hardware And Associated Trim	202.11	22.89
32 31 19 00-0028 Repair Or Replace Wrought Iron Fence (32 31 19 00-0001)		
32 31 19 00-0029 LF Replace Wrought Iron Picket	14.82	
32 31 19 00-0030 LF Replace Wrought Iron Post	22.00	
32 31 19 00-0031 EA Straighten Wrought Iron Post	61.03	
32 31 19 00-0032 Steel Tube Fence, Powder Coated (32 31 19) Note: Pickets are 3/4" square x 16 gauge.		
32 31 19 00-0033 Steel Tube Fence, 2 Rail (32 31 19 00-0032)		
32 31 19 00-0034 LF 3' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	63.78	8.39
For Verticals Up To 2" On Center, Add	9.47	
For Verticals >2" To 2-1/2" On Center, Add	4.73	
For Verticals >3" To 4" On Center, Deduct	-4.73	
For Verticals >4" To 6" On Center, Deduct	-9.47	
For Solid Pickets, Add	13.12	
For Aluminum With Satin Finish, Add	11.73	
For Third Rail, Add	3.55	
For 1" Square x 14 Gauge Pickets, Add	11.83	
For 3" Square Posts, Add	4.73	
32 31 19 00-0035 LF 3'-6" Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	68.16	8.97
For Verticals Up To 2" On Center, Add	10.04	
For Verticals >2" To 2-1/2" On Center, Add	5.02	
For Verticals >3" To 4" On Center, Deduct	-5.02	
For Verticals >4" To 6" On Center, Deduct	-10.04	
For Solid Pickets, Add	13.99	
For Aluminum With Satin Finish, Add	12.37	
For Third Rail, Add	3.77	
For 1" Square x 14 Gauge Pickets, Add	12.55	
For 3" Square Posts, Add	5.02	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0036	LF		4' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	72.01	9.92
			For Verticals Up To 2" On Center, Add	10.51	
			For Verticals >2" To 2-1/2" On Center, Add	5.26	
			For Verticals >3" To 4" On Center, Deduct	-5.26	
			For Verticals >4" To 6" On Center, Deduct	-10.51	
			For Solid Pickets, Add	14.74	
			For Aluminum With Satin Finish, Add	12.86	
			For Third Rail, Add	3.94	
			For 1" Square x 14 Gauge Pickets, Add	13.14	
			For 3" Square Posts, Add	5.26	
32 31 19 00-0037	LF		5' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	76.32	11.14
			For Verticals Up To 2" On Center, Add	10.78	
			For Verticals >2" To 2-1/2" On Center, Add	5.39	
			For Verticals >3" To 4" On Center, Deduct	-5.39	
			For Verticals >4" To 6" On Center, Deduct	-10.78	
			For Solid Pickets, Add	15.49	
			For Aluminum With Satin Finish, Add	12.80	
			For Third Rail, Add	4.04	
			For 1" Square x 14 Gauge Pickets, Add	13.47	
			For 3" Square Posts, Add	5.39	
32 31 19 00-0038	LF		6' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	88.69	12.59
			For Verticals Up To 2" On Center, Add	12.70	
			For Verticals >2" To 2-1/2" On Center, Add	6.35	
			For Verticals >3" To 4" On Center, Deduct	-6.35	
			For Verticals >4" To 6" On Center, Deduct	-12.70	
			For Solid Pickets, Add	18.07	
			For Aluminum With Satin Finish, Add	15.28	
			For Third Rail, Add	4.76	
			For 1" Square x 14 Gauge Pickets, Add	15.88	
			For 3" Square Posts, Add	6.35	
32 31 19 00-0039	LF		7' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	101.88	13.74
			For Verticals Up To 2" On Center, Add	14.88	
			For Verticals >2" To 2-1/2" On Center, Add	7.44	
			For Verticals >3" To 4" On Center, Deduct	-7.44	
			For Verticals >4" To 6" On Center, Deduct	-14.88	
			For Solid Pickets, Add	20.86	
			For Aluminum With Satin Finish, Add	18.20	
			For Third Rail, Add	5.58	
			For 1" Square x 14 Gauge Pickets, Add	18.60	
			For 4" Square Posts, Add	26.04	
32 31 19 00-0040	LF		8' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	115.22	14.95
			For Verticals Up To 2" On Center, Add	17.06	
			For Verticals >2" To 2-1/2" On Center, Add	8.53	
			For Verticals >3" To 4" On Center, Deduct	-8.53	
			For Verticals >4" To 6" On Center, Deduct	-17.06	
			For Solid Pickets, Add	23.68	
			For Aluminum With Satin Finish, Add	21.11	
			For Third Rail, Add	6.40	
			For 1" Square x 14 Gauge Pickets, Add	21.33	
			For 4" Square Posts, Add	29.86	
32 31 19 00-0041	LF		9' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	134.63	16.02
			For Verticals Up To 2" On Center, Add	20.52	
			For Verticals >2" To 2-1/2" On Center, Add	10.26	
			For Verticals >3" To 4" On Center, Deduct	-10.26	
			For Verticals >4" To 6" On Center, Deduct	-20.52	
			For Solid Pickets, Add	27.89	
			For Aluminum With Satin Finish, Add	25.97	
			For Third Rail, Add	7.69	
			For 1" Square x 14 Gauge Pickets, Add	25.65	
			For 4" Square Posts, Add	35.90	
32 31 19 00-0042	LF		10' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	154.17	17.16
			For Verticals Up To 2" On Center, Add	23.97	
			For Verticals >2" To 2-1/2" On Center, Add	11.98	
			For Verticals >3" To 4" On Center, Deduct	-11.98	
			For Verticals >4" To 6" On Center, Deduct	-23.97	
			For Solid Pickets, Add	32.11	
			For Aluminum With Satin Finish, Add	30.80	
			For Third Rail, Add	8.99	
			For 1" Square x 14 Gauge Pickets, Add	29.96	
			For 6" Square Posts, Add	41.94	
32 31 19 00-0043	LF		12' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	182.17	19.08
			For Verticals Up To 2" On Center, Add	28.80	
			For Verticals >2" To 2-1/2" On Center, Add	14.40	
			For Verticals >3" To 4" On Center, Deduct	-14.40	
			For Verticals >4" To 6" On Center, Deduct	-28.80	
			For Solid Pickets, Add	38.13	
			For Aluminum With Satin Finish, Add	37.48	
			For Third Rail, Add	10.80	
			For 1" Square x 14 Gauge Pickets, Add	36.01	
			For 6" Square Posts, Add	50.41	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0044	LF	14' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	195.05	20.60
		For Verticals Up To 2" On Center, Add	30.77	
		For Verticals >2" To 2-1/2" On Center, Add	15.39	
		For Verticals >3" To 4" On Center, Deduct	-15.39	
		For Verticals >4" To 6" On Center, Deduct	-30.77	
		For Solid Pickets, Add	40.80	
		For Aluminum With Satin Finish, Add	39.98	
		For Third Rail, Add	11.54	
		For 1" Square x 14 Gauge Pickets, Add	38.46	
		For 6" Square Posts, Add	53.85	
32 31 19 00-0045		Steel Tube Swing Gates (32 31 19 00-0032)		
32 31 19 00-0046		3' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0047	EA	3' Wide x 3' High Steel Tube Single Swing Gate.....	512.07	16.25
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	111.55	
		For Aluminum With Satin Finish, Add	131.65	
		For Third Rail, Add	34.74	
		For 1" Square x 14 Gauge Pickets, Add	46.32	
32 31 19 00-0048	EA	3'-6" Wide x 3' High Steel Tube Single Swing Gate.....	569.59	17.02
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	124.32	
		For Aluminum With Satin Finish, Add	147.88	
		For Third Rail, Add	38.89	
		For 1" Square x 14 Gauge Pickets, Add	51.85	
32 31 19 00-0049	EA	4' Wide x 3' High Steel Tube Single Swing Gate.....	630.40	18.01
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	137.78	
		For Aluminum With Satin Finish, Add	164.74	
		For Third Rail, Add	43.22	
		For 1" Square x 14 Gauge Pickets, Add	57.62	
32 31 19 00-0050	EA	5' Wide x 3' High Steel Tube Single Swing Gate.....	663.08	19.30
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	144.84	
		For Aluminum With Satin Finish, Add	172.83	
		For Third Rail, Add	45.38	
		For 1" Square x 14 Gauge Pickets, Add	60.51	
32 31 19 00-0051	EA	6' Wide x 3' High Steel Tube Single Swing Gate.....	741.06	23.12
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	161.53	
		For Aluminum With Satin Finish, Add	191.08	
		For Third Rail, Add	50.37	
		For 1" Square x 14 Gauge Pickets, Add	67.16	
32 31 19 00-0052	EA	7' Wide x 3' High Steel Tube Single Swing Gate.....	788.93	26.94
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	171.44	
		For Aluminum With Satin Finish, Add	200.28	
		For Third Rail, Add	53.10	
		For 1" Square x 14 Gauge Pickets, Add	70.81	
32 31 19 00-0053	EA	8' Wide x 3' High Steel Tube Single Swing Gate.....	861.38	30.98
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	186.83	
		For Aluminum With Satin Finish, Add	216.53	
		For Third Rail, Add	57.62	
		For 1" Square x 14 Gauge Pickets, Add	76.83	
32 31 19 00-0054	EA	9' Wide x 3' High Steel Tube Single Swing Gate.....	924.30	34.80
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	200.13	
		For Aluminum With Satin Finish, Add	230.26	
		For Third Rail, Add	61.48	
		For 1" Square x 14 Gauge Pickets, Add	81.98	
32 31 19 00-0055	EA	10' Wide x 3' High Steel Tube Single Swing Gate.....	979.69	38.60
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	211.73	
		For Aluminum With Satin Finish, Add	241.72	
		For Third Rail, Add	64.78	
		For 1" Square x 14 Gauge Pickets, Add	86.37	
32 31 19 00-0056	EA	6' Wide x 3' High Steel Tube Double Swing Gate.....	1,070.47	32.50
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	233.53	
		For Aluminum With Satin Finish, Add	277.19	
		For Third Rail, Add	72.96	
		For 1" Square x 14 Gauge Pickets, Add	97.28	
32 31 19 00-0057	EA	7' Wide x 3' High Steel Tube Double Swing Gate.....	1,140.46	34.03
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	248.94	
		For Aluminum With Satin Finish, Add	296.13	
		For Third Rail, Add	77.87	
		For 1" Square x 14 Gauge Pickets, Add	103.82	
32 31 19 00-0058	EA	8' Wide x 3' High Steel Tube Double Swing Gate.....	1,260.80	36.09
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	275.55	
		For Aluminum With Satin Finish, Add	329.49	
		For Third Rail, Add	86.43	
		For 1" Square x 14 Gauge Pickets, Add	115.25	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0059	EA		9' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,321.11 288.84 345.86 90.67 120.90	37.39
32 31 19 00-0060	EA		10' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,370.11 299.58 358.85 94.06 125.41	38.60
32 31 19 00-0061	EA		12' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,542.40 336.63 400.23 105.27 140.35	46.24
32 31 19 00-0062	EA		14' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,690.83 368.31 434.46 114.68 152.91	53.86
32 31 19 00-0063	EA		16' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,815.68 394.57 460.93 122.21 162.95	62.03
32 31 19 00-0064	EA		18' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,920.16 416.36 481.98 128.33 171.11	69.58
32 31 19 00-0065	EA		20' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,005.82 433.91 497.37 133.04 177.39	77.22
32 31 19 00-0066			4' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0067	EA		3' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	591.32 129.18 154.22 40.49 53.98	15.26
32 31 19 00-0068	EA		3'-6" Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	639.68 139.92 167.87 43.97 58.63	17.78
32 31 19 00-0069	EA		4' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	689.94 150.95 181.23 47.45 63.27	19.08
32 31 19 00-0070	EA		5' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	731.41 159.99 191.96 50.28 67.04	20.29
32 31 19 00-0071	EA		6' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	788.82 171.99 203.69 53.67 71.56	24.41
32 31 19 00-0072	EA		7' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	866.31 188.51 221.44 58.56 78.09	28.46

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0073	EA	8' Wide x 4' High Steel Tube Single Swing Gate.....	972.67	32.50
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	211.53	
		For Aluminum With Satin Finish, Add	247.85	
		For Third Rail, Add	65.63	
		For 1" Square x 14 Gauge Pickets, Add	87.50	
32 31 19 00-0074	EA	9' Wide x 4' High Steel Tube Single Swing Gate.....	1,076.52	36.62
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	233.98	
		For Aluminum With Satin Finish, Add	273.52	
		For Third Rail, Add	72.50	
		For 1" Square x 14 Gauge Pickets, Add	96.67	
32 31 19 00-0075	EA	10' Wide x 4' High Steel Tube Single Swing Gate.....	1,175.35	40.66
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	255.30	
		For Aluminum With Satin Finish, Add	297.67	
		For Third Rail, Add	79.00	
		For 1" Square x 14 Gauge Pickets, Add	105.33	
32 31 19 00-0076	EA	6' Wide x 4' High Steel Tube Double Swing Gate.....	1,182.64	34.33
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	258.37	
		For Aluminum With Satin Finish, Add	308.44	
		For Third Rail, Add	80.97	
		For 1" Square x 14 Gauge Pickets, Add	107.96	
32 31 19 00-0077	EA	7' Wide x 4' High Steel Tube Double Swing Gate.....	1,279.35	35.55
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	279.84	
		For Aluminum With Satin Finish, Add	335.74	
		For Third Rail, Add	87.94	
		For 1" Square x 14 Gauge Pickets, Add	117.25	
32 31 19 00-0078	EA	8' Wide x 4' High Steel Tube Double Swing Gate.....	1,379.89	38.15
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	301.89	
		For Aluminum With Satin Finish, Add	362.46	
		For Third Rail, Add	94.91	
		For 1" Square x 14 Gauge Pickets, Add	126.54	
32 31 19 00-0079	EA	9' Wide x 4' High Steel Tube Double Swing Gate.....	1,459.03	39.37
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	319.41	
		For Aluminum With Satin Finish, Add	384.49	
		For Third Rail, Add	100.56	
		For 1" Square x 14 Gauge Pickets, Add	134.08	
32 31 19 00-0080	EA	10' Wide x 4' High Steel Tube Double Swing Gate.....	1,525.61	40.66
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	334.11	
		For Aluminum With Satin Finish, Add	402.75	
		For Third Rail, Add	105.27	
		For 1" Square x 14 Gauge Pickets, Add	140.35	
32 31 19 00-0081	EA	12' Wide x 4' High Steel Tube Double Swing Gate.....	1,732.05	48.75
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	378.73	
		For Aluminum With Satin Finish, Add	453.70	
		For Third Rail, Add	118.92	
		For 1" Square x 14 Gauge Pickets, Add	158.56	
32 31 19 00-0082	EA	14' Wide x 4' High Steel Tube Double Swing Gate.....	1,913.41	56.91
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	417.70	
		For Aluminum With Satin Finish, Add	497.11	
		For Third Rail, Add	130.69	
		For 1" Square x 14 Gauge Pickets, Add	174.25	
32 31 19 00-0083	EA	16' Wide x 4' High Steel Tube Double Swing Gate.....	2,070.89	65.01
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	451.30	
		For Aluminum With Satin Finish, Add	533.37	
		For Third Rail, Add	140.67	
		For 1" Square x 14 Gauge Pickets, Add	187.56	
32 31 19 00-0084	EA	18' Wide x 4' High Steel Tube Double Swing Gate.....	2,207.03	73.16
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	480.10	
		For Aluminum With Satin Finish, Add	563.23	
		For Third Rail, Add	149.05	
		For 1" Square x 14 Gauge Pickets, Add	198.73	
32 31 19 00-0085	EA	20' Wide x 4' High Steel Tube Double Swing Gate.....	2,323.09	81.33
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	504.38	
		For Aluminum With Satin Finish, Add	587.06	
		For Third Rail, Add	155.92	
		For 1" Square x 14 Gauge Pickets, Add	207.89	

32 31 19 00-0086 5' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0087	EA		3' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	643.45	17.78
			For Solid Pickets, Add	140.77	
			For Aluminum With Satin Finish, Add	169.00	
			For Third Rail, Add	44.25	
			For 1" Square x 14 Gauge Pickets, Add	59.00	
32 31 19 00-0088	EA		3'-6" Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	678.64	19.08
			For Solid Pickets, Add	148.40	
			For Aluminum With Satin Finish, Add	177.84	
			For Third Rail, Add	46.61	
			For 1" Square x 14 Gauge Pickets, Add	62.14	
32 31 19 00-0089	EA		4' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	712.58	20.29
			For Solid Pickets, Add	155.75	
			For Aluminum With Satin Finish, Add	186.31	
			For Third Rail, Add	48.87	
			For 1" Square x 14 Gauge Pickets, Add	65.16	
32 31 19 00-0090	EA		5' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	761.60	21.59
			For Solid Pickets, Add	166.50	
			For Aluminum With Satin Finish, Add	199.30	
			For Third Rail, Add	52.26	
			For 1" Square x 14 Gauge Pickets, Add	69.68	
32 31 19 00-0091	EA		6' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	828.55	25.94
			For Solid Pickets, Add	180.59	
			For Aluminum With Satin Finish, Add	213.55	
			For Third Rail, Add	56.30	
			For 1" Square x 14 Gauge Pickets, Add	75.07	
32 31 19 00-0092	EA		7' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	916.85	30.21
			For Solid Pickets, Add	199.48	
			For Aluminum With Satin Finish, Add	234.20	
			For Third Rail, Add	61.95	
			For 1" Square x 14 Gauge Pickets, Add	82.61	
32 31 19 00-0093	EA		8' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,039.79	34.80
			For Solid Pickets, Add	226.11	
			For Aluminum With Satin Finish, Add	264.90	
			For Third Rail, Add	70.15	
			For 1" Square x 14 Gauge Pickets, Add	93.53	
32 31 19 00-0094	EA		9' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,159.48	39.14
			For Solid Pickets, Add	252.07	
			For Aluminum With Satin Finish, Add	294.97	
			For Third Rail, Add	78.15	
			For 1" Square x 14 Gauge Pickets, Add	104.20	
32 31 19 00-0095	EA		10' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,276.65	43.41
			For Solid Pickets, Add	277.46	
			For Aluminum With Satin Finish, Add	324.28	
			For Third Rail, Add	85.96	
			For 1" Square x 14 Gauge Pickets, Add	114.62	
32 31 19 00-0096	EA		6' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,265.69	29.99
			For Solid Pickets, Add	278.36	
			For Aluminum With Satin Finish, Add	341.18	
			For Third Rail, Add	88.51	
			For 1" Square x 14 Gauge Pickets, Add	118.01	
32 31 19 00-0097	EA		7' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,341.46	34.94
			For Solid Pickets, Add	294.34	
			For Aluminum With Satin Finish, Add	357.50	
			For Third Rail, Add	93.12	
			For 1" Square x 14 Gauge Pickets, Add	124.16	
32 31 19 00-0098	EA		8' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,418.08	40.21
			For Solid Pickets, Add	310.45	
			For Aluminum With Satin Finish, Add	373.69	
			For Third Rail, Add	97.73	
			For 1" Square x 14 Gauge Pickets, Add	130.31	
32 31 19 00-0099	EA		9' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,522.73	45.25
			For Solid Pickets, Add	332.92	
			For Aluminum With Satin Finish, Add	398.66	
			For Third Rail, Add	104.51	
			For 1" Square x 14 Gauge Pickets, Add	139.35	
32 31 19 00-0100	EA		10' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,614.84	50.20
			For Solid Pickets, Add	352.58	
			For Aluminum With Satin Finish, Add	419.87	
			For Third Rail, Add	110.35	
			For 1" Square x 14 Gauge Pickets, Add	147.13	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 19 00-0101	EA	12' Wide x 5' High Steel Tube Double Swing Gate	1,837.93		55.84
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	401.57		
		For Aluminum With Satin Finish, Add	479.62		
		For Third Rail, Add	125.89		
		For 1" Square x 14 Gauge Pickets, Add	167.85		
32 31 19 00-0102	EA	14' Wide x 5' High Steel Tube Double Swing Gate	2,038.84		61.96
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	445.46		
		For Aluminum With Satin Finish, Add	531.97		
		For Third Rail, Add	139.63		
		For 1" Square x 14 Gauge Pickets, Add	186.18		
32 31 19 00-0103	EA	16' Wide x 5' High Steel Tube Double Swing Gate	2,218.84		68.75
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	484.51		
		For Aluminum With Satin Finish, Add	577.28		
		For Third Rail, Add	151.68		
		For 1" Square x 14 Gauge Pickets, Add	202.25		
32 31 19 00-0104	EA	18' Wide x 5' High Steel Tube Double Swing Gate	2,381.25		76.37
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	519.42		
		For Aluminum With Satin Finish, Add	616.19		
		For Third Rail, Add	162.23		
		For 1" Square x 14 Gauge Pickets, Add	216.31		
32 31 19 00-0105	EA	20' Wide x 5' High Steel Tube Double Swing Gate	2,526.12		84.92
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	550.19		
		For Aluminum With Satin Finish, Add	648.69		
		For Third Rail, Add	171.27		
		For 1" Square x 14 Gauge Pickets, Add	228.36		
32 31 19 00-0106 6' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)					
32 31 19 00-0107	EA	3' Wide x 6' High Steel Tube Single Swing Gate	670.13		19.53
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	146.37		
		For Aluminum With Satin Finish, Add	174.60		
		For Third Rail, Add	45.85		
		For 1" Square x 14 Gauge Pickets, Add	61.14		
32 31 19 00-0108	EA	3'-6" Wide x 6' High Steel Tube Single Swing Gate	704.56		20.60
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	153.89		
		For Aluminum With Satin Finish, Add	183.56		
		For Third Rail, Add	48.21		
		For 1" Square x 14 Gauge Pickets, Add	64.28		
32 31 19 00-0109	EA	4' Wide x 6' High Steel Tube Single Swing Gate	739.54		21.74
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	161.49		
		For Aluminum With Satin Finish, Add	192.44		
		For Third Rail, Add	50.56		
		For 1" Square x 14 Gauge Pickets, Add	67.42		
32 31 19 00-0110	EA	5' Wide x 6' High Steel Tube Single Swing Gate	782.51		23.12
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	170.86		
		For Aluminum With Satin Finish, Add	203.51		
		For Third Rail, Add	53.48		
		For 1" Square x 14 Gauge Pickets, Add	71.31		
32 31 19 00-0111	EA	6' Wide x 6' High Steel Tube Single Swing Gate	878.60		27.93
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	191.39		
		For Aluminum With Satin Finish, Add	225.81		
		For Third Rail, Add	59.60		
		For 1" Square x 14 Gauge Pickets, Add	79.47		
32 31 19 00-0112	EA	7' Wide x 6' High Steel Tube Single Swing Gate	980.97		32.80
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	213.34		
		For Aluminum With Satin Finish, Add	250.00		
		For Third Rail, Add	66.19		
		For 1" Square x 14 Gauge Pickets, Add	88.26		
32 31 19 00-0113	EA	8' Wide x 6' High Steel Tube Single Swing Gate	1,095.13		37.39
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	237.99		
		For Aluminum With Satin Finish, Add	278.07		
		For Third Rail, Add	73.72		
		For 1" Square x 14 Gauge Pickets, Add	98.30		
32 31 19 00-0114	EA	9' Wide x 6' High Steel Tube Single Swing Gate	1,205.04		42.19
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	261.64		
		For Aluminum With Satin Finish, Add	304.52		
		For Third Rail, Add	80.88		
		For 1" Square x 14 Gauge Pickets, Add	107.84		



Exterior Improvements			32
Site Improvements			32 30
Fences And Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0115	EA		10' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,338.79 290.64 338.12 89.82 119.77	47.00
32 31 19 00-0116	EA		6' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,315.08 288.97 352.98 91.71 122.28	32.35
32 31 19 00-0117	EA		7' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,393.79 305.48 369.42 96.41 128.55	37.92
32 31 19 00-0118	EA		8' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,471.67 321.87 385.98 101.12 134.83	43.19
32 31 19 00-0119	EA		9' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,565.45 341.78 406.94 106.96 142.61	48.75
32 31 19 00-0120	EA		10' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,711.97 373.55 443.72 116.75 155.67	54.32
32 31 19 00-0121	EA		12' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,007.03 438.62 524.31 137.56 183.41	60.50
32 31 19 00-0122	EA		14' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,102.48 458.58 543.89 143.21 190.95	67.60
32 31 19 00-0123	EA		16' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,308.86 503.38 595.98 157.05 209.40	75.22
32 31 19 00-0124	EA		18' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,498.90 544.31 642.04 169.48 225.97	83.69
32 31 19 00-0125	EA		20' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,675.99 582.08 682.70 180.68 240.91	93.39
32 31 19 00-0126			7' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0127	EA		3' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	710.09 155.00 184.43 48.49 64.65	21.14
32 31 19 00-0128	EA		3'-6" Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	746.08 162.85 193.71 50.94 67.92	22.27

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0129	EA	4' Wide x 7' High Steel Tube Single Swing Gate.....	782.24	23.42	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	170.72		
		For Aluminum With Satin Finish, Add	202.98		
		For Third Rail, Add	53.39		
		For 1" Square x 14 Gauge Pickets, Add	71.18		
32 31 19 00-0130	EA	5' Wide x 7' High Steel Tube Single Swing Gate.....	818.46	24.64	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	178.60		
		For Aluminum With Satin Finish, Add	212.23		
		For Third Rail, Add	55.83		
		For 1" Square x 14 Gauge Pickets, Add	74.45		
32 31 19 00-0131	EA	6' Wide x 7' High Steel Tube Single Swing Gate.....	947.47	29.99	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	206.43		
		For Aluminum With Satin Finish, Add	243.73		
		For Third Rail, Add	64.31		
		For 1" Square x 14 Gauge Pickets, Add	85.74		
32 31 19 00-0132	EA	7' Wide x 7' High Steel Tube Single Swing Gate.....	1,065.66	35.10	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	231.88		
		For Aluminum With Satin Finish, Add	272.32		
		For Third Rail, Add	72.03		
		For 1" Square x 14 Gauge Pickets, Add	96.04		
32 31 19 00-0133	EA	8' Wide x 7' High Steel Tube Single Swing Gate.....	1,151.99	40.36	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	250.10		
		For Aluminum With Satin Finish, Add	291.01		
		For Third Rail, Add	77.30		
		For 1" Square x 14 Gauge Pickets, Add	103.07		
32 31 19 00-0134	EA	9' Wide x 7' High Steel Tube Single Swing Gate.....	1,250.11	45.47	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	271.03		
		For Aluminum With Satin Finish, Add	313.58		
		For Third Rail, Add	83.52		
		For 1" Square x 14 Gauge Pickets, Add	111.35		
32 31 19 00-0135	EA	10' Wide x 7' High Steel Tube Single Swing Gate.....	1,370.34	50.81	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	296.88		
		For Aluminum With Satin Finish, Add	342.43		
		For Third Rail, Add	91.33		
		For 1" Square x 14 Gauge Pickets, Add	121.77		
32 31 19 00-0136	EA	6' Wide x 7' High Steel Tube Double Swing Gate.....	1,392.09	34.64	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	305.79		
		For Aluminum With Satin Finish, Add	373.06		
		For Third Rail, Add	96.98		
		For 1" Square x 14 Gauge Pickets, Add	129.31		
32 31 19 00-0137	EA	7' Wide x 7' High Steel Tube Double Swing Gate.....	1,474.16	40.52	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	323.00		
		For Aluminum With Satin Finish, Add	390.13		
		For Third Rail, Add	101.88		
		For 1" Square x 14 Gauge Pickets, Add	135.83		
32 31 19 00-0138	EA	8' Wide x 7' High Steel Tube Double Swing Gate.....	1,557.06	46.69	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	340.33		
		For Aluminum With Satin Finish, Add	407.07		
		For Third Rail, Add	106.77		
		For 1" Square x 14 Gauge Pickets, Add	142.36		
32 31 19 00-0139	EA	9' Wide x 7' High Steel Tube Double Swing Gate.....	1,640.38	52.57	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	357.82		
		For Aluminum With Satin Finish, Add	424.52		
		For Third Rail, Add	111.76		
		For 1" Square x 14 Gauge Pickets, Add	149.02		
32 31 19 00-0140	EA	10' Wide x 7' High Steel Tube Double Swing Gate.....	1,847.59	58.75	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	403.12		
		For Aluminum With Satin Finish, Add	478.74		
		For Third Rail, Add	125.98		
		For 1" Square x 14 Gauge Pickets, Add	167.97		
32 31 19 00-0141	EA	12' Wide x 7' High Steel Tube Double Swing Gate.....	2,232.21	65.54	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	488.21		
		For Aluminum With Satin Finish, Add	585.44		
		For Third Rail, Add	153.38		
		For 1" Square x 14 Gauge Pickets, Add	204.51		
32 31 19 00-0142	EA	14' Wide x 7' High Steel Tube Double Swing Gate.....	2,209.66	73.48	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	481.44		
		For Aluminum With Satin Finish, Add	568.48		
		For Third Rail, Add	149.99		
		For 1" Square x 14 Gauge Pickets, Add	199.99		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0143	EA		16' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,394.69 521.24 613.04 162.04 216.05	81.95
32 31 19 00-0144	EA		18' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,615.73 568.90 666.89 176.54 235.39	91.63
32 31 19 00-0145	EA		20' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,762.69 599.70 697.38 185.30 247.06	102.24
32 31 19 00-0146 8' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)					
32 31 19 00-0147	EA		3' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	771.69 168.48 200.61 52.73 70.30	22.89
32 31 19 00-0148	EA		3'-6" Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	809.40 176.68 210.20 55.27 73.69	24.11
32 31 19 00-0149	EA		4' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	849.62 185.44 220.56 58.00 77.33	25.40
32 31 19 00-0150	EA		5' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	886.03 192.98 227.52 60.07 80.10	28.31
32 31 19 00-0151	EA		6' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,047.72 228.53 271.06 71.37 95.16	32.05
32 31 19 00-0152	EA		7' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,166.74 253.82 297.84 78.81 105.08	38.60
32 31 19 00-0153	EA		8' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,219.71 264.31 305.15 81.35 108.47	44.94
32 31 19 00-0154	EA		9' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,308.59 282.82 322.88 86.53 115.37	51.58
32 31 19 00-0155	EA		10' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,386.17 298.79 337.23 90.86 121.15	58.22
32 31 19 00-0156	EA		6' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,513.05 332.51 406.33 105.55 140.73	37.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0157	EA	7' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,605.17 351.60 424.15 110.82 147.76	44.64
32 31 19 00-0158	EA	8' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,695.19 370.28 441.71 116.00 154.67	51.96
32 31 19 00-0159	EA	9' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,771.01 385.70 454.64 120.05 160.06	59.66
32 31 19 00-0160	EA	10' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,057.71 448.57 530.83 139.91 186.55	67.30
32 31 19 00-0161	EA	12' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,562.87 560.41 671.42 175.98 234.63	75.76
32 31 19 00-0162	EA	14' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,347.03 509.76 594.21 157.71 210.28	85.45
32 31 19 00-0163	EA	16' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,514.50 545.05 630.10 167.88 223.84	96.66
32 31 19 00-0164	EA	18' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,771.95 600.34 691.47 184.54 246.06	108.95
32 31 19 00-0165	EA	20' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,831.48 610.77 691.58 186.05 248.07	122.76
32 31 19 00-0166		Replace Steel Tube Fence Pickets (32 31 19 00-0032)		
32 31 19 00-0167	LF	Replace 3/4" Square x 16 Gauge Steel Tube Fence Picket..... For 1" Square x 14 Gauge Pickets, Add	23.34 0.81	
32 31 19 00-0168		Remove And Reinstall Ornamental Fences (32 31 19)		
		Note: Removal and reinstallation of fences including storage and cleaning. Excludes augering and concrete.		
32 31 19 00-0169	LF	Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	34.33	
32 31 19 00-0170	LF	Removal And Reinstallation Of Ornamental Fence, 6' Height.....	37.77	
32 31 19 00-0171	LF	Removal And Reinstallation Of Ornamental Fence, 7' Height.....	41.20	
32 31 19 00-0172	LF	Removal And Reinstallation Of Ornamental Fence, 8' Height.....	44.64	
32 31 19 00-0173	LF	Removal And Reinstallation Of Ornamental Fence, 9' Height.....	48.06	
32 31 19 00-0174	LF	Removal And Reinstallation Of Ornamental Fence, 10' Height.....	51.50	
32 31 19 00-0175	LF	Removal And Reinstallation Of Ornamental Fence 12' Height.....	57.22	
32 31 23		Plastic Fences And Gates (32 31)		
32 31 23 00-0001		Vinyl Fence (32 31 23)		
32 31 23 00-0002		Privacy Tongue And Groove Vinyl Fence (32 31 23 00-0001)		
		Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Posts include flat cap.		
32 31 23 00-0003	LF	3' High Privacy Tongue And Groove Vinyl Fence	34.31	4.64
32 31 23 00-0004	LF	4' High Privacy Tongue And Groove Vinyl Fence	38.66	5.56
32 31 23 00-0005	LF	5' High Privacy Tongue And Groove Vinyl Fence	43.31	6.49
32 31 23 00-0006	LF	6' High Privacy Tongue And Groove Vinyl Fence	47.89	7.41



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0007			Semi-Privacy 6" Picket Vinyl Fence (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Posts include flat cap.		
32 31 23 00-0008	LF		5' High Semi-Privacy 6" Picket Vinyl Fence.....	46.13	6.49
32 31 23 00-0009	LF		6' High Semi-Privacy 6" Picket Vinyl Fence.....	50.75	7.41
32 31 23 00-0010			Picket Straight Top Vinyl Fence (32 31 23 00-0001) Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Posts include flat cap.		
32 31 23 00-0011	LF		3' High Picket Straight Top Vinyl Fence.....	31.82	4.64
32 31 23 00-0012	LF		4' High Picket Straight Top Vinyl Fence.....	36.30	5.56
32 31 23 00-0013	LF		5' High Picket Straight Top Vinyl Fence.....	41.66	6.49
32 31 23 00-0014	LF		6' High Picket Straight Top Vinyl Fence.....	46.28	7.41
32 31 23 00-0015			Picket Scalloped Top Vinyl Fence (32 31 23 00-0001) Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Posts include flat cap.		
32 31 23 00-0016	LF		3' High Picket Scalloped Top Vinyl Fence.....	35.02	4.64
32 31 23 00-0017	LF		4' High Picket Scalloped Top Vinyl Fence.....	39.60	5.56
32 31 23 00-0018	LF		5' High Picket Scalloped Top Vinyl Fence.....	44.75	6.49
32 31 23 00-0019	LF		6' High Picket Scalloped Top Vinyl Fence.....	49.46	7.41
32 31 23 00-0020			Post And Rail Vinyl Fence, Ranch Style (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Posts include flat cap.		
32 31 23 00-0021	LF		5' High, 2 Rail, Post And Rail Vinyl Fence.....	14.32	4.64
32 31 23 00-0022	LF		6-1/2' High, 3 Rail, Post And Rail Vinyl Fence.....	18.19	5.56
32 31 23 00-0023	LF		7' High, 4 Rail, Post And Rail Vinyl Fence.....	20.76	6.02
32 31 23 00-0024			Post, Rails And Pickets (Traditional Style) Vinyl Fence (32 31 23 00-0001) Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Posts include flat cap.		
32 31 23 00-0025	LF		3' High Rail And Picket Vinyl Fence, 72" On Center Posts.....	40.86	5.10
32 31 23 00-0026	LF		4' High Rail And Picket Vinyl Fence, 72" On Center Posts.....	44.87	6.02
32 31 23 00-0027	LF		3' High Rail And Picket Vinyl Fence, 96" On Center Posts.....	38.43	4.64
32 31 23 00-0028	LF		4' High Rail And Picket Vinyl Fence, 96" On Center Posts.....	42.09	5.56
32 31 23 00-0029			Vinyl Gates (32 31 23)		
32 31 23 00-0030			Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0029) Note: Includes hinges.		
32 31 23 00-0031			3' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0032	EA		3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	377.14	46.34
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0033	EA		3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	399.92	48.66
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0034	EA		3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	437.54	50.97
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0035	EA		3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	488.34	53.29
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0036			4' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0037	EA		4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	399.92	48.66
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0038	EA		4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	414.45	50.97
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0039	EA		4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	458.65	53.29
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0040	EA		4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	534.20	55.61
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0041			5' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0042	EA		5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	414.45	50.97
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0043	EA		5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	432.27	53.29
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	

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MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 23 00-0044	EA	5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	492.98		55.61
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0045	EA	5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	571.83		57.92
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0046 6' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)					
32 31 23 00-0047	EA	6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	436.91		55.61
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0048	EA	6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	454.74		57.92
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0049	EA	6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	543.47		60.24
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0050	EA	6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	597.58		60.24
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0051 Gates For Picket Fences (32 31 23 00-0029)					
Note: Includes hinges.					
32 31 23 00-0052 3' High Gates For Picket Fences (32 31 23 00-0051)					
32 31 23 00-0053	EA	3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	362.30		46.34
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0054	EA	3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	376.83		48.66
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0055	EA	3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	421.05		50.97
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0056	EA	3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	496.58		53.29
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0057 4' High Gates For Picket Fences (32 31 23 00-0051)					
32 31 23 00-0058	EA	4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	366.94		48.66
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0059	EA	4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	381.47		50.97
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0060	EA	4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	425.67		53.29
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0061	EA	4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	501.22		55.61
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0062 5' High Gates For Picket Fences (32 31 23 00-0051)					
32 31 23 00-0063	EA	5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	381.47		50.97
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0064	EA	5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	399.29		53.29
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0065	EA	5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	459.99		55.61
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0066	EA	5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	538.84		57.92
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0067 6' High Gates For Picket Fences (32 31 23 00-0051)					
32 31 23 00-0068	EA	6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	403.93		55.61
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0069	EA	6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	421.76		57.92
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0070	EA	6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	510.49		60.24
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		
32 31 23 00-0071	EA	6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	564.60		62.56
		For Self-Closing Hinge Set, Add	14.50		
		For Self-Closing Stainless Steel Hinge Set, Add	38.50		



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Fences And Gates			32 31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0072		Gates Accessories (32 31 23 00-0029)		
32 31 23 00-0073	EA	Gate Stop/Drop Rod	82.53	
32 31 23 00-0074	EA	Latch Set.....	58.62	
32 31 23 00-0075	EA	Stainless Steel Latch Set.....	82.53	
32 31 26		Wire Fences And Gates (32 31)		
32 31 26 00-0001		Chicken Wire (32 31 26) Note: Posts at 4'.		
32 31 26 00-0002	LF	1" Mesh, 4' High Chicken Wire Posts At 4'	6.17	1.36
32 31 26 00-0003	LF	2" Mesh, 6' High Chicken Wire Posts At 4'	6.79	1.36
32 31 26 00-0004		Wire And Screen (32 31 26)		
32 31 26 00-0005		Wire And Screen For Partitions And Fences (32 31 26 00-0004) Note: Excludes framing and post.		
32 31 26 00-0006		Screen Wire (32 31 26 00-0005)		
32 31 26 00-0007	LF	Screen Wire, 48" Wide Rolls.....	10.04	0.93
32 31 26 00-0008		Hog Wire (32 31 26 00-0005)		
32 31 26 00-0009	SF	4" x 4" Hog Wire For Fencing	1.83	0.75
32 31 26 00-0010	SF	6" x 6" Hog Wire For Fencing	1.91	0.84
32 31 26 00-0011		Non-Climb Horse Fence (32 31 26 00-0005)		
32 31 26 00-0012	LF	4' Non-Climb Woven, 12.5 Gauge, Horse Fence	8.11	2.99
32 31 26 00-0013	LF	5' Non-Climb Woven, 12.5 Gauge, Horse Fence	10.34	3.73
32 31 26 00-0014	LF	6' Non-Climb Woven, 12.5 Gauge, Horse Fence	12.85	4.48
32 31 26 00-0015		Screen For Partitions And Ceilings (32 31 26 00-0004) Note: Can be used to support insulation on walls and ceilings.		
32 31 26 00-0016	SF	1" Mesh Chicken Wire	1.57	
32 31 26 00-0017		Wicket Fence (32 31 26)		
32 31 26 00-0018	LF	Steel Wicket Fence, Painted.....	45.05	4.11
32 31 29		Wood Fences And Gates (32 31) See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 29 00-0001		Basket Weave (32 31 29) Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002	LF	6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post.....	37.40	2.73
		For Fastening With Screws Instead Of Nails, Add	2.16	
32 31 29 00-0003	LF	6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post.....	23.75	2.73
		For Fastening With Screws Instead Of Nails, Add	1.49	
32 31 29 00-0004		Board Fence (32 31 29) Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005	LF	Board Fence, 2 - 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated	21.36	2.73
		For 1" x 6" Boards, Deduct	-2.24	
		For 1" x 3" Boards (Stockade Top), Add	2.78	
		For Fastening With Screws Instead Of Nails, Add	1.38	
32 31 29 00-0006	LF	Board Fence, 2 - 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated	23.79	2.73
		For 1" x 6" Boards, Deduct	-2.44	
		For 1" x 3" Boards (Stockade Top), Add	3.01	
		For Fastening With Screws Instead Of Nails, Add	1.53	
32 31 29 00-0007	LF	Board Fence, 3 - 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated	26.57	2.73
		For 1" x 6" Boards, Deduct	-2.61	
		For 1" x 3" Boards (Stockade Top), Add	3.18	
		For Fastening With Screws Instead Of Nails, Add	1.68	
32 31 29 00-0008	LF	Board Fence, 3 - 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated	28.38	2.73
		For 1" x 6" Boards, Deduct	-2.74	
		For 1" x 3" Boards (Stockade Top), Add	3.33	
		For Fastening With Screws Instead Of Nails, Add	1.78	
32 31 29 00-0009	LF	Board Fence, 3 - 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated	30.34	2.73
		For 1" x 6" Boards, Deduct	-2.88	
		For 1" x 3" Boards (Stockade Top), Add	3.49	
		For Fastening With Screws Instead Of Nails, Add	1.90	
32 31 29 00-0010	LF	Board Fence, 2 - 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar.....	22.85	2.73
		For 1" x 6" Boards, Deduct	-2.30	
		For 1" x 3" Boards (Stockade Top), Add	2.82	
		For Fastening With Screws Instead Of Nails, Add	1.46	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0011	LF	Board Fence, 2 - 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	24.93 -2.48 3.04 1.58	2.73
32 31 29 00-0012	LF	Board Fence, 3 - 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	26.57 -2.61 3.18 1.68	2.73
32 31 29 00-0013	LF	Board Fence, 3 - 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	28.38 -2.74 3.33 1.78	2.73
32 31 29 00-0014	LF	Board Fence, 3 - 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	30.34 -2.88 3.49 1.90	2.73
32 31 29 00-0015	LF	Board Fence, 2 - 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	22.85 -2.30 2.82 1.46	2.73
32 31 29 00-0016	LF	Board Fence, 2 - 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	29.99 -2.69 3.20 1.84	2.73
32 31 29 00-0017	LF	Board Fence, 3 - 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	31.42 -2.80 3.33 1.92	2.73
32 31 29 00-0018	LF	Board Fence, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	33.81 -2.96 3.49 2.06	2.73
32 31 29 00-0019	LF	Board Fence, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	36.39 -3.12 3.67 2.20	2.73
32 31 29 00-0020		Shadow Box (32 31 29) Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021	LF	Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine..... <i>For Fastening With Screws Instead Of Nails, Add</i>	35.15 2.04	2.73
32 31 29 00-0022	LF	Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar..... <i>For Fastening With Screws Instead Of Nails, Add</i>	43.92 2.53	2.73
32 31 29 00-0023	LF	Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar..... <i>For Fastening With Screws Instead Of Nails, Add</i>	47.63 2.73	2.73
32 31 29 00-0024	LF	Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar..... <i>For Fastening With Screws Instead Of Nails, Add</i>	51.16 2.93	2.73
32 31 29 00-0025		Open Rail Fence (32 31 29)		
32 31 29 00-0026		Post And Rail Fence, Ranch Style (32 31 29 00-0025)		
32 31 29 00-0027	LF	Post And Rail Fence, 2 Rails, 3' High #1 Cedar.....	20.60	2.73
32 31 29 00-0028	LF	Post And Rail Fence, 2 Rails, 3' High #2 Cedar.....	16.26	2.73
32 31 29 00-0029	LF	Post And Rail Fence, 3 Rails, 4' High #1 Cedar.....	24.31	2.73
32 31 29 00-0030	LF	Post And Rail Fence, 3 Rails, 4' High #2 Cedar.....	17.56	2.73
32 31 29 00-0031		Split Rail Fence (32 31 29 00-0025)		
32 31 29 00-0032	LF	Split Rail Fence, 2 Rails, 3' High #1 Cedar.....	19.48	2.73
32 31 29 00-0033	LF	Split Rail Fence, 2 Rails, 3' High #2 Cedar.....	16.22	2.73
32 31 29 00-0034	LF	Split Rail Fence, 3 Rail, 4' High #1 Cedar.....	22.18	2.73
32 31 29 00-0035	LF	Split Rail Fence, 3 Rail, 4' High #2 Cedar.....	18.19	2.73
32 31 29 00-0036		Picket Fence (32 31 29)		
32 31 29 00-0037	LF	Picket Fence, 2 Rail, 3' High, Pressure Treated..... <i>For Fastening With Screws Instead Of Nails, Add</i>	21.53 1.40	2.73
32 31 29 00-0038	LF	Picket Fence, 2 Rail, 3' High #1 Cedar..... <i>For Fastening With Screws Instead Of Nails, Add</i>	20.32 1.34	2.73
32 31 29 00-0039		Wood Gate (32 31 29)		
32 31 29 00-0040		Board Fence Gates, Pressure Treated Wood (32 31 29 00-0039) Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0041	EA	3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	342.28	106.88
32 31 29 00-0042	EA	3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	378.22	113.31
32 31 29 00-0043	EA	3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	422.73	123.99
32 31 29 00-0044	EA	3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	479.25	130.41
32 31 29 00-0045	EA	3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	535.77	136.82
32 31 29 00-0046	EA	>5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	436.38	141.09



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Site Improvements			32 30
Fences And Gates			32 31

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0047	EA	>5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	474.90	147.51	
32 31 29 00-0048	EA	>5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	513.43	153.92	
32 31 29 00-0049	EA	>5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	577.65	160.33	
32 31 29 00-0050	EA	>5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	629.04	166.74	
32 31 29 00-0051		Board Fence Gates, Grade 2 Cedar (32 31 29 00-0039) Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)			
32 31 29 00-0052	EA	3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	517.54	85.30	
32 31 29 00-0053	EA	3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	535.49	90.42	
32 31 29 00-0054	EA	3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	562.83	98.95	
32 31 29 00-0055	EA	3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	593.61	104.07	
32 31 29 00-0056	EA	3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	632.12	109.19	
32 31 29 00-0057	EA	>5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	610.67	112.60	
32 31 29 00-0058	EA	>5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	633.76	117.71	
32 31 29 00-0059	EA	>5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	669.69	122.84	
32 31 29 00-0060	EA	>5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	705.63	127.95	
32 31 29 00-0061	EA	>5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	741.56	133.07	
32 31 29 00-0062		Board Fence Gates, Grade 1 Cedar (32 31 29 00-0039) Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)			
32 31 29 00-0063	EA	3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	556.08	85.30	
32 31 29 00-0064	EA	3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	579.17	90.42	
32 31 29 00-0065	EA	3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	609.08	98.95	
32 31 29 00-0066	EA	3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	645.01	104.07	
32 31 29 00-0067	EA	3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	680.95	109.19	
32 31 29 00-0068	EA	>5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	662.07	112.60	
32 31 29 00-0069	EA	>5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	685.16	117.71	
32 31 29 00-0070	EA	>5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	721.09	122.84	
32 31 29 00-0071	EA	>5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	757.03	127.95	
32 31 29 00-0072	EA	>5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	805.81	133.07	
32 31 29 00-0073		Pressure Treated Wood Fence Posts (32 31 29) See CSI section 32 31 13 13-0001 for drilling augering, 32 31 13 13-0668 for barbed wire, 32 31 56 00-0017 for barbed wire.			
32 31 29 00-0074	EA	4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	32.60	10.69	
32 31 29 00-0075	EA	6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	36.66	10.69	
32 31 29 00-0076	EA	4' High, Pressure Treated Wood Fence Posts, Set In Concrete	57.50	20.52	
32 31 29 00-0077	EA	6' High, Pressure Treated Wood Fence Posts, Set In Concrete	62.12	20.52	
32 31 29 00-0078		Wood Utility Pole Fence (32 31 29) Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.			
32 31 29 00-0079	LF	Wood Utility Pole Barrier Fence	37.79	2.73	
		Note: Includes notching post, drilling and pinned with #8 rebar.			
32 31 29 00-0080		Wood Rail Fence (32 31 29) Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill			
32 31 29 00-0081	LF	4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	19.10	2.73	
32 31 41		Precast Concrete Fences (32 31)			
32 31 41 00-0001		Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete. (32 31 41) Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.			
32 31 41 00-0002	LF	Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury	47.44	2.73	
		Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.			
32 31 56		Wild Life Deterrent Fence (32 31)			
32 31 56 00-0001		Barbed Wire Fences (32 31 56) Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.			
32 31 56 00-0002		Fence Posts (32 31 56 00-0001)			
32 31 56 00-0003		Fence Post Soil, Set In Concrete (32 31 56 00-0002)			
32 31 56 00-0004	EA	Barbed Wire Fence Post, Galvanized Set In Concrete In Soil	68.35	6.10	
		For Bracing On Corner Post, End Post And Pull Post, Add	109.82		
32 31 56 00-0005	EA	Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil	90.68	6.10	
		For Bracing On Corner Post, End Post And Pull Post, Add	147.11		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 56 00-0006		Post In Rock (32 31 56 00-0002)		
32 31 56 00-0007	EA	Barbed Wire Fence Post, Galvanized Grouted In Rock..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	67.02 107.83	6.10
32 31 56 00-0008	EA	Barbed Wire Fence Post, Vinyl Coated Grouted In Rock..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	89.35 145.12	6.10
32 31 56 00-0009		Studded Steel T-Posts, Enamel Paint Finish (32 31 56 00-0001)		
		Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010	EA	5' Studded Steel T-Post, Driven Into Earth.....	18.70	
32 31 56 00-0011	EA	5'-6" Studded Steel T-Post, Driven Into Earth.....	19.15	
32 31 56 00-0012	EA	6' Studded Steel T-Post, Driven Into Earth.....	19.93	
32 31 56 00-0013	EA	6'-6" Studded Steel T-Post, Driven Into Earth.....	20.72	
32 31 56 00-0014	EA	7' Studded Steel T-Post, Driven Into Earth.....	21.71	
32 31 56 00-0015	EA	8' Studded Steel T-Post, Driven Into Earth.....	24.30	
32 31 56 00-0016	EA	10' Studded Steel T-Post, Driven Into Earth.....	28.98	
32 31 56 00-0017		Barbed Wire (32 31 56 00-0001)		
		Note: Per strand.		
32 31 56 00-0018	LF	Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand.....	0.66	0.30
32 31 56 00-0019	LF	Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand.....	0.75	0.30
32 31 56 00-0020		Barbed Wire Fence, Farm Style, With Wood Posts (32 31 56 00-0001)		
		Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		
32 31 56 00-0021	LF	4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts..... Note: Posts at 10' maximum.	8.00	1.98
32 32		Retaining Walls (32 30)		
32 32 13		Cast-In-Place Concrete Retaining Wall (32 32)		
		Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
32 32 13 00-0001	LF	4' High With Base, 10" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	306.15 7.85	106.94
32 32 13 00-0002	LF	6' High With Base, 10" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	382.51 10.14	131.58
32 32 13 00-0003	LF	8' High With Base, 10" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	417.14 11.33	141.93
32 32 13 00-0004	LF	10' High With Base, 13" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	533.22 15.50	175.49
32 32 13 00-0005	LF	12' High With Base, 14" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	614.72 17.98	201.58
32 32 13 00-0006	LF	16' High With Base, 16" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	887.92 25.21	295.72
32 32 13 00-0007	LF	20' High With Base, 18" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,218.12 34.13	408.26
32 32 13 00-0008	LF	4' High With Base, 12" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	336.67 8.77	116.78
32 32 13 00-0009	LF	6' High With Base, 12" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	412.89 11.18	140.71
32 32 13 00-0010	LF	8' High With Base, 12" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	437.92 12.26	146.82
32 32 13 00-0011	LF	10' High With Base, 16" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	604.21 17.90	196.77
32 32 13 00-0012	LF	12' High With Base, 18" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	765.01 22.06	252.74
32 32 13 00-0013	LF	16' High With Base, 21" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,145.72 32.26	383.11
32 32 13 00-0014	LF	20' High With Base, 24" Thick Reinforced..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,616.92 45.51	540.77
32 32 16		Precast Concrete Retaining Walls (32 32)		
32 32 16 00-0001		Precast Retaining Walls (32 32 16)		
		Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.		
32 32 16 00-0002	SF	Precast Concrete Retaining Walls, 10-15' High Tied-back Earth Walls.....	59.94	10.35
32 32 16 00-0003	SF	Precast Concrete Retaining Walls, 16-20' High Tied-back Earth Walls.....	60.98	8.33
32 32 16 00-0004	SF	Precast Concrete Retaining Walls, 21-25' High Tied-back Earth Walls.....	62.84	6.94
32 32 16 00-0005	SF	Precast Concrete Retaining Walls, 26-30' High Tied-back Earth Walls.....	67.81	6.94
32 32 16 00-0006	SF	Precast Concrete Retaining Walls, >30' High Tied-back Earth Walls.....	71.40	5.92
32 32 23		Segmental Retaining Walls (32 32)		
32 32 23 13		Segmental Concrete Unit Masonry Retaining Walls (32 32 23)		



Exterior Improvements		32	32
Site Improvements		32 30	
Retaining Walls		32 32	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
32 32 23 13-0001	Modular Retaining Wall Systems (32 32 23 13) Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.				
32 32 23 13-0002	"Amastone" Type Modular Retaining Wall Systems (32 32 23 13-0001)				
32 32 23 13-0003	SF Up To 4' Height "Amastone" Type Modular Retaining Wall System.....	41.31		7.13	
	For >3:1 Sloped Soil At Top, Add	2.30			
32 32 23 13-0004	SF 4 To 8' Height "Amastone" Type Modular Retaining Wall System	43.57		7.51	
	For >3:1 Sloped Soil At Top, Add	2.43			
32 32 23 13-0005	SF 8 To 12' Height "Amastone" Type Modular Retaining Wall System	45.72		8.26	
	For >3:1 Sloped Soil At Top, Add	2.48			
32 32 23 13-0006	SF 12 To 16' Height "Amastone" Type Modular Retaining Wall System	47.96		9.01	
	For >3:1 Sloped Soil At Top, Add	2.54			
32 32 23 13-0007	"Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)				
32 32 23 13-0008	SF Up To 4' Height "Diamond" Type Modular Retaining Wall System	42.73		7.13	
	For >3:1 Sloped Soil At Top, Add	2.42			
32 32 23 13-0009	SF 4 To 8' Height "Diamond" Type Modular Retaining Wall System	44.99		7.51	
	For >3:1 Sloped Soil At Top, Add	2.55			
32 32 23 13-0010	SF 8 To 12' Height "Diamond" Type Modular Retaining Wall System	47.13		8.26	
	For >3:1 Sloped Soil At Top, Add	2.60			
32 32 23 13-0011	SF 12 To 16' Height "Diamond" Type Modular Retaining Wall System	49.37		9.01	
	For >3:1 Sloped Soil At Top, Add	2.66			
32 32 23 13-0012	"Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)				
32 32 23 13-0013	SF Up To 4' Height "Keystone" Type Modular Retaining Wall System.....	46.10		7.13	
	For >3:1 Sloped Soil At Top, Add	2.71			
32 32 23 13-0014	SF 4 To 8' Height "Keystone" Type Modular Retaining Wall System	48.36		7.51	
	For >3:1 Sloped Soil At Top, Add	2.83			
32 32 23 13-0015	SF 8 To 12' Height "Keystone" Type Modular Retaining Wall System	50.51		8.26	
	For >3:1 Sloped Soil At Top, Add	2.89			
32 32 23 13-0016	SF 12 To 16' Height "Keystone" Type Modular Retaining Wall System	52.75		9.01	
	For >3:1 Sloped Soil At Top, Add	2.95			
32 32 23 13-0017	"Cribblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)				
32 32 23 13-0018	SF Up To 4' Height "Cribblock" Type Modular Retaining Wall System.....	41.31		7.13	
	For >3:1 Sloped Soil At Top, Add	2.30			
	For Gravel Backfill Instead Of Earth, Add	0.25			
32 32 23 13-0019	SF 4 To 8' Height "Cribblock" Type Modular Retaining Wall System	43.57		7.51	
	For >3:1 Sloped Soil At Top, Add	2.43			
	For Gravel Backfill Instead Of Earth, Add	0.25			
32 32 23 13-0020	SF 8 To 12' Height "Cribblock" Type Modular Retaining Wall System	45.72		8.26	
	For >3:1 Sloped Soil At Top, Add	2.48			
	For Gravel Backfill Instead Of Earth, Add	0.25			
32 32 23 13-0021	SF 12 To 16' Height "Cribblock" Type Modular Retaining Wall System	47.96		9.01	
	For >3:1 Sloped Soil At Top, Add	2.54			
	For Gravel Backfill Instead Of Earth, Add	0.25			
32 32 23 13-0022	"Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)				
32 32 23 13-0023	SF Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System	37.03		7.13	
	For >3:1 Sloped Soil At Top, Add	1.93			
32 32 23 13-0024	SF 4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System	40.70		7.51	
	For >3:1 Sloped Soil At Top, Add	2.18			
32 32 23 13-0025	SF 8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System	42.87		8.26	
	For >3:1 Sloped Soil At Top, Add	2.24			
32 32 23 13-0026	SF 12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System	44.85		9.01	
	For >3:1 Sloped Soil At Top, Add	2.28			
32 32 23 13-0027	Retaining Wall Cap Block Restoration (32 32 23 13-0001) Note: Includes removal of existing cap block and installation of new cap block to match.				
32 32 23 13-0028	LF Removal And Reinstall Retaining Wall Cap Block And Pins.....	23.86			
	For >3:1 Sloped Soil At Top, Add	1.15			
32 32 26	Metal Crib Retaining Walls (32 32)				
32 32 26 00-0001	Aluminized Steel Bin (32 32 26) Note: Excludes excavation and backfill.				
32 32 26 00-0002	SF 4' High, 5.5' Deep Aluminized Steel Bin.....	24.05		3.82	
	For >3:1 Sloped Soil At Top, Add	1.39			
	For Galvanized Type, Deduct	-1.64			
32 32 26 00-0003	SF 8' High, 5.5' Deep Aluminized Steel Bin.....	26.62		3.82	
	For >3:1 Sloped Soil At Top, Add	1.61			
	For Galvanized Type, Deduct	-1.89			
32 32 26 00-0004	SF 10' High, 7.7' Deep Aluminized Steel Bin.....	28.45		4.18	
	For >3:1 Sloped Soil At Top, Add	1.71			
	For Galvanized Type, Deduct	-2.01			

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 26 00-0005	SF	12' High, 7.7' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	32.39 1.95 -2.30	4.72
32 32 26 00-0006	SF	16' High, 7.7' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	31.43 1.85 -2.17	4.89
32 32 26 00-0007	SF	16' High, 9.9' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	34.69 2.11 -2.48	4.98
32 32 26 00-0008	SF	20' High, 9.9' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	38.33 2.36 -2.78	5.25
32 32 26 00-0009	SF	20' High, 12.1' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	39.29 2.41 -2.83	5.52
32 32 26 00-0010	SF	24' High, 12.1' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	41.15 2.56 -3.01	5.52
32 32 26 00-0011	SF	24' High, 14.3' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	43.01 2.71 -3.19	5.61
32 32 26 00-0012	SF	28' High, 14.3' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	44.38 2.81 -3.31	5.70

32 32 29 Timber Retaining Walls (32 32)**32 32 29 00-0001 Wood Post Retaining Walls (32 32 29)**

Note: System elements include wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0002	LF	4" x 4", 1' High, Redwood	79.30	23.31
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.79	
32 32 29 00-0003	LF	4" x 4", 2' High, Redwood	155.11	45.62
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.43	
32 32 29 00-0004	LF	4" x 4", 1' High, Cedar	75.12	23.31
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.43	
32 32 29 00-0005	LF	4" x 4", 2' High, Cedar	146.97	45.62
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.74	
32 32 29 00-0006	LF	4" x 4", 1' High, Pressure Treated Lumber	72.15	20.36
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.67	
32 32 29 00-0007	LF	4" x 4", 2' High, Pressure Treated Lumber	141.29	39.82
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.24	
32 32 29 00-0008	LF	4" x 4", 1' High, Creosoted Lumber	63.82	18.07
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.35	
32 32 29 00-0009	LF	4" x 4", 2' High, Creosoted Lumber	115.37	32.71
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.25	
32 32 29 00-0010	LF	6 x 6, 2' High, Redwood	217.45	55.27
		<i>For >3:1 Sloped Soil At Top, Add</i>	9.09	
32 32 29 00-0011	LF	6 x 6, 4' High, Redwood	430.42	108.34
		<i>For >3:1 Sloped Soil At Top, Add</i>	18.18	
32 32 29 00-0012	LF	6 x 6, 2' High, Cedar	212.80	55.27
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.69	
32 32 29 00-0013	LF	6 x 6, 4' High, Cedar	418.80	108.34
		<i>For >3:1 Sloped Soil At Top, Add</i>	17.19	
32 32 29 00-0014	LF	6 x 6, 2' High, Pressure Treated Lumber	189.75	44.89
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.49	
32 32 29 00-0015	LF	6 x 6, 4' High, Pressure Treated Lumber	377.22	88.64
		<i>For >3:1 Sloped Soil At Top, Add</i>	16.99	
32 32 29 00-0016	LF	6 x 6, 2' High, Creosoted Lumber	152.05	35.89
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.82	
32 32 29 00-0017	LF	6 x 6, 4' High, Creosoted Lumber	299.67	70.23
		<i>For >3:1 Sloped Soil At Top, Add</i>	13.53	
32 32 29 00-0018	LF	8 x 8, 4' High, Redwood	558.05	119.78
		<i>For >3:1 Sloped Soil At Top, Add</i>	27.07	
32 32 29 00-0019	LF	8 x 8, 6' High, Redwood	1,044.53	223.63
		<i>For >3:1 Sloped Soil At Top, Add</i>	50.77	
32 32 29 00-0020	LF	8 x 8, 4' High, Cedar	534.80	119.78
		<i>For >3:1 Sloped Soil At Top, Add</i>	25.09	
32 32 29 00-0021	LF	8 x 8, 6' High, Cedar	1,000.37	223.63
		<i>For >3:1 Sloped Soil At Top, Add</i>	47.02	
32 32 29 00-0022	LF	8 x 8, 4' High, Pressure Treated Lumber	513.46	138.19
		<i>For >3:1 Sloped Soil At Top, Add</i>	20.15	
32 32 29 00-0023	LF	8 x 8, 6' High, Pressure Treated Lumber	957.73	258.05
		<i>For >3:1 Sloped Soil At Top, Add</i>	37.54	
32 32 29 00-0024	LF	8 x 8, 4' High, Creosoted Lumber	415.12	111.69
		<i>For >3:1 Sloped Soil At Top, Add</i>	16.30	
32 32 29 00-0025	LF	8 x 8, 6' High, Creosoted Lumber	769.93	207.19
		<i>For >3:1 Sloped Soil At Top, Add</i>	30.23	
32 32 29 00-0026	LF	Random Diameter Poles, Cedar 4' High	150.24	46.03
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.94	
32 32 29 00-0027	LF	Random Diameter Poles, Cedar 6' High	224.20	69.09
		<i>For >3:1 Sloped Soil At Top, Add</i>	7.31	
32 32 29 00-0028	LF	Random Diameter Poles, Cedar 8' High	298.08	92.06
		<i>For >3:1 Sloped Soil At Top, Add</i>	9.68	



Exterior Improvements		32	32
Site Improvements		32 30	
Retaining Walls		32 32	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 32 29 00-0029	LF	Random Diameter Poles, 4' High Creosoted Lumber	109.01	26.00
		For >3:1 Sloped Soil At Top, Add	4.84	
32 32 29 00-0030	LF	Random Diameter Poles, 6' High Creosoted Lumber	158.75	37.53
		For >3:1 Sloped Soil At Top, Add	7.11	
32 32 29 00-0031	LF	Random Diameter Poles, 8' High	215.22	50.69
		For >3:1 Sloped Soil At Top, Add	9.68	
32 32 29 00-0032		Post And Board Retaining Walls (32 32 29)		
		Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0033	LF	4 x 4 Post, 4' Spacing, 3' High Redwood, 2" Planking	69.83	13.81
		For >3:1 Sloped Soil At Top, Add	3.59	
32 32 29 00-0034	LF	4 x 4 Post, 2' Spacing, 4' High 2" Planking, Redwood	104.17	23.63
		For >3:1 Sloped Soil At Top, Add	4.84	
32 32 29 00-0035	LF	6 x 6 Post, 4' Spacing, 5' High 2" Planking, Redwood	138.92	29.35
		For >3:1 Sloped Soil At Top, Add	6.82	
32 32 29 00-0036	LF	6 x 6 Post, 3' Spacing, 6' High 2" Planking, Redwood	193.55	41.62
		For >3:1 Sloped Soil At Top, Add	9.38	
32 32 29 00-0037	LF	6 x 6 With Deadman, 3' Spacing, 8' High 2" Planking, Redwood	253.51	54.13
		For >3:1 Sloped Soil At Top, Add	12.35	
32 32 29 00-0038	LF	8 x 8 Post, 2' Spacing, 8' High 2" Planking, Redwood	525.66	107.11
		For >3:1 Sloped Soil At Top, Add	26.47	
32 32 29 00-0039	LF	8 x 8 With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood	597.48	118.64
		For >3:1 Sloped Soil At Top, Add	30.62	
32 32 29 00-0040	LF	4 x 4 Post, 4' Spacing, 3' High, 2" Planking, Cedar	70.39	14.39
		For >3:1 Sloped Soil At Top, Add	3.54	
32 32 29 00-0041	LF	4 x 4 With Deadman, 2' Spacing, 4' High 2" Planking, Cedar	123.18	25.60
		For >3:1 Sloped Soil At Top, Add	6.12	
32 32 29 00-0042	LF	6 x 6 Post, 4' Spacing, 4' High 2" Planking, Cedar	121.11	25.10
		For >3:1 Sloped Soil At Top, Add	6.03	
32 32 29 00-0043	LF	6 x 6 Post, 3' Spacing, 5' High 2" Planking, Cedar	168.56	36.06
		For >3:1 Sloped Soil At Top, Add	8.20	
32 32 29 00-0044	LF	6 x 6 Post, 2' Spacing, 6' High 2" Planking, Cedar	260.44	57.56
		For >3:1 Sloped Soil At Top, Add	12.35	
32 32 29 00-0045	LF	6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar	208.14	44.23
		For >3:1 Sloped Soil At Top, Add	10.17	
32 32 29 00-0046	LF	8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar	544.14	110.55
		For >3:1 Sloped Soil At Top, Add	27.46	
32 32 29 00-0047	LF	4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated	77.02	26.58
		For >3:1 Sloped Soil At Top, Add	2.02	
32 32 29 00-0048	LF	4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated	112.39	37.78
		For >3:1 Sloped Soil At Top, Add	3.13	
32 32 29 00-0049	LF	4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat	167.55	51.84
		For >3:1 Sloped Soil At Top, Add	5.43	
32 32 29 00-0050	LF	6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated	299.37	87.49
		For >3:1 Sloped Soil At Top, Add	10.57	
32 32 29 00-0051	LF	6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated	305.18	87.49
		For >3:1 Sloped Soil At Top, Add	11.06	
32 32 29 00-0052	LF	6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat	284.35	84.06
		For >3:1 Sloped Soil At Top, Add	9.88	
32 32 29 00-0053	LF	8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated	674.89	193.37
		For >3:1 Sloped Soil At Top, Add	24.50	
32 32 29 00-0054	LF	4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking	77.02	26.58
		For >3:1 Sloped Soil At Top, Add	2.02	
32 32 29 00-0055	LF	4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking	112.39	37.78
		For >3:1 Sloped Soil At Top, Add	3.13	
32 32 29 00-0056	LF	4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking	167.55	51.84
		For >3:1 Sloped Soil At Top, Add	5.43	
32 32 29 00-0057	LF	6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking	211.47	64.51
		For >3:1 Sloped Soil At Top, Add	7.01	
32 32 29 00-0058	LF	6 x 6 Post, 2' Spacing, 7' High Creosoted, 2" Planking	299.37	87.49
		For >3:1 Sloped Soil At Top, Add	10.57	
32 32 29 00-0059	LF	6 x 6 Post With Deadman, 3' Spacing, 8' High, Creosoted, 2" Planking	284.35	84.06
		For >3:1 Sloped Soil At Top, Add	9.88	
32 32 29 00-0060	LF	8 x 8 Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking	674.89	193.37
		For >3:1 Sloped Soil At Top, Add	24.50	
32 32 29 00-0061		Wood Tie Retaining Walls, Rod Connector At 4' (32 32 29)		
		Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0062		Redwood (32 32 29 00-0061)		
32 32 29 00-0063	LF	2' High, 6" x 6" Wood Tie Wall	112.44	28.29
		For >3:1 Sloped Soil At Top, Add	4.74	
32 32 29 00-0064	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	256.80	64.51
		For >3:1 Sloped Soil At Top, Add	10.87	
32 32 29 00-0065	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	384.09	96.73
		For >3:1 Sloped Soil At Top, Add	16.20	
32 32 29 00-0066	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	386.61	82.91
		For >3:1 Sloped Soil At Top, Add	18.77	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0067	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	581.16	124.36
		For >3:1 Sloped Soil At Top, Add	28.25	
32 32 29 00-0068	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	768.64	163.52
		For >3:1 Sloped Soil At Top, Add	37.54	
32 32 29 00-0069		Cedar (32 32 29 00-0061)		
32 32 29 00-0070	LF	2' High, 6" x 6" Wood Tie Wall	110.12	28.29
		For >3:1 Sloped Soil At Top, Add	4.54	
32 32 29 00-0071	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	249.82	64.51
		For >3:1 Sloped Soil At Top, Add	10.27	
32 32 29 00-0072	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	374.79	96.73
		For >3:1 Sloped Soil At Top, Add	15.41	
32 32 29 00-0073	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	370.34	82.91
		For >3:1 Sloped Soil At Top, Add	17.39	
32 32 29 00-0074	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	557.92	124.36
		For >3:1 Sloped Soil At Top, Add	26.28	
32 32 29 00-0075	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	736.10	163.52
		For >3:1 Sloped Soil At Top, Add	34.77	
32 32 29 00-0076		Creosoted Wood (32 32 29 00-0061)		
32 32 29 00-0077	LF	2' High, 6" x 8" Wood Tie Wall	114.71	37.53
		For >3:1 Sloped Soil At Top, Add	3.37	
32 32 29 00-0078	LF	4' High, 6" x 8" Wood Tie Wall Deadman At 6'	262.24	86.35
		For >3:1 Sloped Soil At Top, Add	7.61	
32 32 29 00-0079	LF	6' High, 6" x 8" Wood Tie Wall Deadman At 6'	389.27	127.80
		For >3:1 Sloped Soil At Top, Add	11.36	
32 32 29 00-0080	LF	4' High, 7" x 9" Wood Tie Wall Deadman At 6'	526.69	173.83
		For >3:1 Sloped Soil At Top, Add	15.21	
32 32 29 00-0081	LF	6' High, 7" x 9" Wood Tie Wall Deadman At 6'	766.75	253.22
		For >3:1 Sloped Soil At Top, Add	22.13	
32 32 29 00-0082	LF	8' High, 7" x 9" Wood Tie Wall Deadman At 6'	1,017.81	335.73
		For >3:1 Sloped Soil At Top, Add	29.44	
32 32 29 00-0083		Pressure Treated Wood (32 32 29 00-0061)		
32 32 29 00-0084	LF	2' High, 6" x 6" Wood Tie Wall	99.17	23.38
		For >3:1 Sloped Soil At Top, Add	4.45	
32 32 29 00-0085	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	225.64	52.98
		For >3:1 Sloped Soil At Top, Add	10.17	
32 32 29 00-0086	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	337.87	79.48
		For >3:1 Sloped Soil At Top, Add	15.21	
32 32 29 00-0087	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	354.95	95.58
		For >3:1 Sloped Soil At Top, Add	13.93	
32 32 29 00-0088	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	534.31	142.84
		For >3:1 Sloped Soil At Top, Add	21.14	
32 32 29 00-0089	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	707.54	189.94
		For >3:1 Sloped Soil At Top, Add	27.86	
32 32 53		Stone Retaining Walls (32 32)		
32 32 53 00-0001		Stone Retaining Walls (32 32 53)		
		Note: Construction is either dry set or mortar set. System elements include concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.		
32 32 53 00-0002		Stone Retaining Walls (32 32 53 00-0001)		
		Note: Stone at \$16.00/ton.		
32 32 53 00-0003	LF	\$16.00/ton 3' High Stone Retaining Wall, Dry Set.....	365.98	169.02
		For >3:1 Sloped Soil At Top, Add	2.37	
32 32 53 00-0004	LF	\$16.00/ton 4' High Stone Retaining Wall, Dry Set.....	432.68	201.08
		For >3:1 Sloped Soil At Top, Add	2.59	
32 32 53 00-0005	LF	\$16.00/ton 6' High Stone Retaining Wall, Dry Set.....	569.95	267.16
		For >3:1 Sloped Soil At Top, Add	3.03	
32 32 53 00-0006	LF	\$16.00/ton 8' High Stone Retaining Wall, Dry Set.....	881.51	417.72
		For >3:1 Sloped Soil At Top, Add	3.91	
32 32 53 00-0007	LF	\$16.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,147.33	546.42
		For >3:1 Sloped Soil At Top, Add	4.63	
32 32 53 00-0008	LF	\$16.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,425.12	680.44
		For >3:1 Sloped Soil At Top, Add	5.45	
32 32 53 00-0009	LF	\$16.00/ton 3' High Stone Retaining Wall, Mortar Set.....	327.17	149.65
		For >3:1 Sloped Soil At Top, Add	2.37	
32 32 53 00-0010	LF	\$16.00/ton 4' High Stone Retaining Wall, Mortar Set.....	384.63	177.06
		For >3:1 Sloped Soil At Top, Add	2.59	
32 32 53 00-0011	LF	\$16.00/ton 6' High Stone Retaining Wall, Mortar Set.....	499.02	231.64
		For >3:1 Sloped Soil At Top, Add	3.03	
32 32 53 00-0012	LF	\$16.00/ton 8' High Stone Retaining Wall, Mortar Set.....	767.32	360.65
		For >3:1 Sloped Soil At Top, Add	3.91	
32 32 53 00-0013	LF	\$16.00/ton 10' High Stone Retaining Wall, Mortar Set.....	987.17	466.37
		For >3:1 Sloped Soil At Top, Add	4.63	
32 32 53 00-0014	LF	\$16.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,227.55	581.71
		For >3:1 Sloped Soil At Top, Add	5.45	



Exterior Improvements		32	32
Site Improvements		32 30	
Retaining Walls		32 32	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0015			Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$32.00/ton.		
32 32 53 00-0016	LF		\$32.00/ton 3' High Stone Retaining Wall, Dry Set	374.41	169.02
			For >3:1 Sloped Soil At Top, Add	3.09	
32 32 53 00-0017	LF		\$32.00/ton 4' High Stone Retaining Wall, Dry Set	444.35	201.08
			For >3:1 Sloped Soil At Top, Add	3.58	
32 32 53 00-0018	LF		\$32.00/ton 6' High Stone Retaining Wall, Dry Set	586.81	267.16
			For >3:1 Sloped Soil At Top, Add	4.46	
32 32 53 00-0019	LF		\$32.00/ton 8' High Stone Retaining Wall, Dry Set	906.15	417.72
			For >3:1 Sloped Soil At Top, Add	6.01	
32 32 53 00-0020	LF		\$32.00/ton 10' High Stone Retaining Wall, Dry Set	1,181.04	546.42
			For >3:1 Sloped Soil At Top, Add	7.49	
32 32 53 00-0021	LF		\$32.00/ton 12' High Stone Retaining Wall, Dry Set	1,467.91	680.44
			For >3:1 Sloped Soil At Top, Add	9.09	
32 32 53 00-0022	LF		\$32.00/ton 3' High Stone Retaining Wall, Mortar Set.....	335.60	149.65
			For >3:1 Sloped Soil At Top, Add	3.09	
32 32 53 00-0023	LF		\$32.00/ton 4' High Stone Retaining Wall, Mortar Set.....	396.30	177.06
			For >3:1 Sloped Soil At Top, Add	3.58	
32 32 53 00-0024	LF		\$32.00/ton 6' High Stone Retaining Wall, Mortar Set.....	515.88	231.64
			For >3:1 Sloped Soil At Top, Add	4.46	
32 32 53 00-0025	LF		\$32.00/ton 8' High Stone Retaining Wall, Mortar Set.....	791.96	360.65
			For >3:1 Sloped Soil At Top, Add	6.01	
32 32 53 00-0026	LF		\$32.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,020.88	466.37
			For >3:1 Sloped Soil At Top, Add	7.49	
32 32 53 00-0027	LF		\$32.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,270.34	581.71
			For >3:1 Sloped Soil At Top, Add	9.09	
32 32 53 00-0028			Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$48.00/ton.		
32 32 53 00-0029	LF		\$48.00/ton 3' High Stone Retaining Wall, Dry Set	383.49	169.02
			For >3:1 Sloped Soil At Top, Add	3.86	
32 32 53 00-0030	LF		\$48.00/ton 4' High Stone Retaining Wall, Dry Set	455.88	201.08
			For >3:1 Sloped Soil At Top, Add	4.56	
32 32 53 00-0031	LF		\$48.00/ton 6' High Stone Retaining Wall, Dry Set	603.01	267.16
			For >3:1 Sloped Soil At Top, Add	5.84	
32 32 53 00-0032	LF		\$48.00/ton 8' High Stone Retaining Wall, Dry Set	930.78	417.72
			For >3:1 Sloped Soil At Top, Add	8.10	
32 32 53 00-0033	LF		\$48.00/ton 10' High Stone Retaining Wall, Dry Set	1,214.75	546.42
			For >3:1 Sloped Soil At Top, Add	10.36	
32 32 53 00-0034	LF		\$48.00/ton 12' High Stone Retaining Wall, Dry Set	1,511.34	680.44
			For >3:1 Sloped Soil At Top, Add	12.78	
32 32 53 00-0035	LF		\$48.00/ton 3' High Stone Retaining Wall, Mortar Set.....	344.68	149.65
			For >3:1 Sloped Soil At Top, Add	3.86	
32 32 53 00-0036	LF		\$48.00/ton 4' High Stone Retaining Wall, Mortar Set.....	407.96	177.06
			For >3:1 Sloped Soil At Top, Add	4.57	
32 32 53 00-0037	LF		\$48.00/ton 6' High Stone Retaining Wall, Mortar Set.....	532.08	231.64
			For >3:1 Sloped Soil At Top, Add	5.84	
32 32 53 00-0038	LF		\$48.00/ton 8' High Stone Retaining Wall, Mortar Set.....	816.59	360.65
			For >3:1 Sloped Soil At Top, Add	8.10	
32 32 53 00-0039	LF		\$48.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,054.59	466.37
			For >3:1 Sloped Soil At Top, Add	10.36	
32 32 53 00-0040	LF		\$48.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,313.77	581.71
			For >3:1 Sloped Soil At Top, Add	12.78	
32 32 53 00-0041			Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$64.00/ton.		
32 32 53 00-0042	LF		\$64.00/ton 3' High Stone Retaining Wall, Dry Set	392.56	169.02
			For >3:1 Sloped Soil At Top, Add	4.63	
32 32 53 00-0043	LF		\$64.00/ton 4' High Stone Retaining Wall, Dry Set	454.72	201.08
			For >3:1 Sloped Soil At Top, Add	4.46	
32 32 53 00-0044	LF		\$64.00/ton 6' High Stone Retaining Wall, Dry Set	620.51	267.16
			For >3:1 Sloped Soil At Top, Add	7.33	
32 32 53 00-0045	LF		\$64.00/ton 8' High Stone Retaining Wall, Dry Set	956.71	417.72
			For >3:1 Sloped Soil At Top, Add	10.30	
32 32 53 00-0046	LF		\$64.00/ton 10' High Stone Retaining Wall, Dry Set	1,249.75	546.42
			For >3:1 Sloped Soil At Top, Add	13.33	
32 32 53 00-0047	LF		\$64.00/ton 12' High Stone Retaining Wall, Dry Set	1,555.42	680.44
			For >3:1 Sloped Soil At Top, Add	16.53	
32 32 53 00-0048	LF		\$64.00/ton 3' High Stone Retaining Wall, Mortar Set.....	353.75	149.65
			For >3:1 Sloped Soil At Top, Add	4.63	
32 32 53 00-0049	LF		\$64.00/ton 4' High Stone Retaining Wall, Mortar Set.....	419.63	177.06
			For >3:1 Sloped Soil At Top, Add	5.56	
32 32 53 00-0050	LF		\$64.00/ton 6' High Stone Retaining Wall, Mortar Set.....	549.58	231.64
			For >3:1 Sloped Soil At Top, Add	7.33	
32 32 53 00-0051	LF		\$64.00/ton 8' High Stone Retaining Wall, Mortar Set.....	842.52	360.65
			For >3:1 Sloped Soil At Top, Add	10.30	
32 32 53 00-0052	LF		\$64.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,089.59	466.37
			For >3:1 Sloped Soil At Top, Add	13.33	
32 32 53 00-0053	LF		\$64.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,357.85	581.71
			For >3:1 Sloped Soil At Top, Add	16.53	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**
 MINOR
CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST
32 35 Screening Devices (32 30)**32 35 16 Sound Barriers** (32 35)**32 35 16 00-0001 Precast Concrete Roadway Sound Barriers And Support Including Caps****For Columns** (32 35 16)

Note: Installed on steel supports. Finish to be determined by owner (ribbed, patterned, stamped, exposed aggregate or smooth)

32 35 16 00-0002 4" Thick (32 35 16 00-0001)

32 35 16 00-0003	LF	6' High x 4" Thick Precast Concrete Sound Walls.....	107.83	19.13
32 35 16 00-0004	LF	7' High x 4" Thick Precast Concrete Sound Walls.....	116.92	21.36
32 35 16 00-0005	LF	8' High x 4" Thick Precast Concrete Sound Walls.....	127.29	23.14
32 35 16 00-0006	LF	9' High x 4" Thick Precast Concrete Sound Walls.....	136.00	24.92
32 35 16 00-0007	LF	10' High x 4" Thick Precast Concrete Sound Walls.....	143.84	26.70
32 35 16 00-0008	LF	11' High x 4" Thick Precast Concrete Sound Walls.....	154.48	27.58
32 35 16 00-0009	LF	12' High x 4" Thick Precast Concrete Sound Walls.....	164.72	28.92

32 35 16 00-0010 6" Thick (32 35 16 00-0001)

32 35 16 00-0011	LF	6' High x 6" Thick Precast Concrete Sound Walls.....	128.48	22.25
32 35 16 00-0012	LF	7' High x 6" Thick Precast Concrete Sound Walls.....	139.30	24.92
32 35 16 00-0013	LF	8' High x 6" Thick Precast Concrete Sound Walls.....	151.65	27.58
32 35 16 00-0014	LF	9' High x 6" Thick Precast Concrete Sound Walls.....	162.02	29.37
32 35 16 00-0015	LF	10' High x 6" Thick Precast Concrete Sound Walls.....	171.36	31.15
32 35 16 00-0016	LF	11' High x 6" Thick Precast Concrete Sound Walls.....	184.06	32.48
32 35 16 00-0017	LF	12' High x 6" Thick Precast Concrete Sound Walls.....	196.32	33.82

32 35 16 00-0018 8" Thick (32 35 16 00-0001)

32 35 16 00-0019	LF	6' High x 8" Thick Precast Concrete Sound Walls.....	154.77	26.70
32 35 16 00-0020	LF	7' High x 8" Thick Precast Concrete Sound Walls.....	167.76	29.37
32 35 16 00-0021	LF	8' High x 8" Thick Precast Concrete Sound Walls.....	182.62	32.04
32 35 16 00-0022	LF	9' High x 8" Thick Precast Concrete Sound Walls.....	195.08	34.71
32 35 16 00-0023	LF	10' High x 8" Thick Precast Concrete Sound Walls.....	206.33	36.94
32 35 16 00-0024	LF	11' High x 8" Thick Precast Concrete Sound Walls.....	221.70	38.27
32 35 16 00-0025	LF	12' High x 8" Thick Precast Concrete Sound Walls.....	236.56	40.05

32 35 16 00-0026 Redwood Top (32 35 16 00-0001)

32 35 16 00-0027	LF	2" x 6" Redwood, Construction Grade/Rough.....	3.66	0.93
32 35 16 00-0028	LF	2" x 8" Redwood, Construction Grade/Rough.....	4.29	1.22
32 35 16 00-0029	LF	2" x 10" Redwood, Construction Grade/Rough.....	6.49	1.49
32 35 16 00-0030	LF	2" x 12" Redwood, Construction Grade/Rough.....	7.84	1.86
32 35 16 00-0031	LF	2" x 6" Redwood, Con Heart/Smooth.....	4.42	0.93
32 35 16 00-0032	LF	2" x 8" Redwood, Con Heart/Smooth.....	6.37	1.22
32 35 16 00-0033	LF	2" x 10" Redwood, Con Heart/Smooth.....	8.42	1.49
32 35 16 00-0034	LF	2" x 12" Redwood, Con Heart/Smooth.....	10.13	1.86

32 39 Manufactured Site Specialties (32 30)

Note: Excludes coredrilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0070 for concrete core drilling, 02 41 19 13-0208 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.

32 39 13 Manufactured Metal Bollards (32 39)**32 39 13 00-0001 Metal Pipe Bollards** (32 39 13)

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.

32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powered Coated (32 39 13 00-0001)

32 39 13 00-0003	LF	4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	40.53	9.98
		For Galvanized Steel, Add	3.50	
		For 304 Stainless Steel, Add	27.77	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	103.84	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	76.44	
		For Schedule 80, Add	5.08	
		For Concrete Fill, Add Per LF Of Pipe Bollard	5.55	
32 39 13 00-0004	LF	6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	52.40	9.98
		For Galvanized Steel, Add	5.51	
		For 304 Stainless Steel, Add	43.79	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	103.84	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	76.44	
		For Schedule 80, Add	6.86	
		For Concrete Fill, Add Per LF Of Pipe Bollard	8.10	



Exterior Improvements			32
Site Improvements			32 30
Manufactured Site Specialties			32 39

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 13 00-0005 LF 8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard, Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	73.07 8.18 64.95 137.84 116.31 9.71 10.82	12.48
32 39 13 00-0006 LF 10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard, Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	95.78 11.19 88.87 157.80 125.94 12.87 13.37	14.97
32 39 13 00-0007 LF 12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard, Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	121.62 13.89 110.28 212.68 173.91 16.25 15.84	19.96
32 39 13 00-0008 Cast Bollards (32 39 13 00-0001)		
32 39 13 00-0009 EA 36" Cast Aluminum Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, all colors.	1,068.62	59.89
32 39 13 00-0010 EA 36" Cast Aluminum Removable Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.	1,782.15	59.89
32 39 13 00-0011 EA 36" Cast Iron Bollard, Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, all colors.	910.86	59.89
32 39 13 00-0012 EA 36" Cast Iron Removable Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.	1,628.62	59.89
32 39 16 Manufactured Concrete Bollards (32 39)		
32 39 16 00-0001 Concrete Bollards (32 39 16) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 16 00-0002 Concrete Bollard, Exposed Aggregate (32 39 16 00-0001)		
32 39 16 00-0003 EA 12" x 12" x 30" High Concrete Bollard, Light Sandblast Note: Surface mounted with anchor bolts embedded into grout pockets.	546.30	79.86
32 39 16 00-0004 EA 12" Diameter x 30" High Concrete Bollard, Light Sandblast Note: Surface mounted with anchor bolts embedded into grout pockets.	546.30	79.86
32 39 19 Manufactured Wood Bollards (32 39)		
32 39 19 00-0001 Wood Bollards (32 39 19) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 19 00-0002 Wood Bollard, Pressure Treated Timber (32 39 19 00-0001)		
32 39 19 00-0003 LF 4" x 4", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	18.87 77.84	7.98
32 39 19 00-0004 LF 6" x 6", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	21.94 77.84	7.98
32 39 19 00-0005 LF 8" x 8", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	28.57 119.86	8.98
32 39 19 00-0006 LF 10" x 10", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	40.50 131.42	11.98
32 39 19 00-0007 LF 12" x 12", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	55.78 184.99	15.97
32 39 23 Manufactured Plastic Bollards (32 39)		
32 39 23 00-0001 Plastic Bollards (32 39 23) See CSI section 32 31 13 13-0001 for augering and filling holes for bollards., 32 31 13 13-0018 for concrete fill.		
32 39 23 00-0002 Recycled Plastic Bollards (32 39 23 00-0001)		
32 39 23 00-0003 EA 6" x 6" x 33" Surface Mounted Recycled Plastic Bollard Note: Includes anchor bolts.	215.09	39.93
32 39 23 00-0004 EA 6" Diameter x 6' Steel Reinforced Recycled Plastic Bollard	335.47	39.93
32 39 23 00-0005 Plastic Bollard Covers (32 39 23 00-0001)		
32 39 23 00-0006 EA 4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe For Reflective Tape, Add	53.22 5.68	8.72
32 39 23 00-0007 EA 6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe For Reflective Tape, Add	57.69 5.68	9.60
32 39 23 00-0008 EA 3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe For Reflective Tape, Add	71.11 5.68	8.72

32 Exterior Improvements**32 30 Site Improvements****32 39 Manufactured Site Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 23 00-0009 EA 3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe..... <i>For Reflective Tape, Add</i>	71.11 5.68	8.72
32 39 23 00-0010 EA 3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe..... <i>For Reflective Tape, Add</i>	79.46 5.68	8.72
32 39 23 00-0011 EA 4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe..... <i>For Reflective Tape, Add</i>	71.11 5.68	8.72
32 39 23 00-0012 EA 4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe..... <i>For Reflective Tape, Add</i>	72.30 5.68	8.72
32 39 23 00-0013 EA 5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe..... <i>For Reflective Tape, Add</i>	71.11 5.68	8.72
32 39 23 00-0014 EA 5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe..... <i>For Reflective Tape, Add</i>	72.30 5.68	8.72
32 39 23 00-0015 EA 5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe..... <i>For Reflective Tape, Add</i>	99.74 5.68	8.72
32 39 23 00-0016 EA 6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	72.85 5.68	9.60
32 39 23 00-0017 EA 6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	91.94 5.68	9.60
32 39 23 00-0018 EA 6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	104.21 5.68	9.60
32 39 23 00-0019 EA 7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	88.91 5.68	10.46
32 39 23 00-0020 EA 8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe..... <i>For Reflective Tape, Add</i>	96.07 5.68	10.46
32 39 23 00-0021 EA 8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe..... <i>For Reflective Tape, Add</i>	96.07 5.68	10.46
32 39 23 00-0022 EA 10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe..... <i>For Reflective Tape, Add</i>	128.29 5.68	10.46

32 39 26 Manufactured Stone Bollards (32 39)

32 39 26 00-0001 Stone Bollards (32 39 26)
See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.

32 39 26 00-0002 Granite Bollards (32 39 26 00-0001)

32 39 26 00-0003 EA 16" x 16" x 30" Granite Bollard, Smooth Matt Finish.....	1,112.62	99.82
Note: Surface mounted with anchors embedded into grout pockets.		
32 39 26 00-0004 EA 16" x 16" x 54" Granite Bollard, Smooth Matt Finish.....	1,408.28	139.75
Note: Surface mounted with anchors embedded into grout pockets.		
32 39 26 00-0005 EA 12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top.....	687.67	99.82
Note: Surface mounted with anchors embedded into grout pockets.		
32 39 26 00-0006 EA 12" Diameter x 18" Granite Bollard, Smooth Matt Finish.....	1,022.89	79.86
Note: Flat Top, surface mounted with anchors embedded into grout pockets.		
32 39 26 00-0007 EA 24" x 24" x 20" Granite Bollard, Octagonal Cross Section.....	1,529.18	79.86
Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.		

32 80 Irrigation (32)**32 84 Planting Irrigation (32 80)****32 84 13 Drip Irrigation (32 84)****32 84 13 00-0001 Drip Emitter Irrigation Devices (32 84 13)****32 84 13 00-0002 Drip Emitter Irrigation Valves (32 84 13 00-0001)**

32 84 13 00-0003 EA 1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050).....	35.24	9.25
32 84 13 00-0004 EA 1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV100).....	48.76	9.25
32 84 13 00-0005 EA 3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075).....	47.81	9.25
32 84 13 00-0006 EA 3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075TBOS).....	60.51	9.25

32 84 13 00-0007 Drip Emitter Irrigation Filters (32 84 13 00-0001)

32 84 13 00-0008 EA 3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075).....	87.35	9.25
32 84 13 00-0009 EA 1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100).....	88.05	9.25
32 84 13 00-0010 EA 3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX).....	41.14	9.25
32 84 13 00-0011 EA 1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX).....	41.70	9.25
32 84 13 00-0012 EA 1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100).....	93.86	9.25
32 84 13 00-0013 EA 3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY).....	49.55	9.25
32 84 13 00-0014 EA 1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY).....	53.93	9.25

32 84 13 00-0015 Drip Emitter Irrigation Pressure Regulators (32 84 13 00-0001)

32 84 13 00-0016 EA 3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075).....	40.57	9.25
32 84 13 00-0017 EA 3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075).....	40.57	9.25



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0018	EA		3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075).....	40.57	9.25
32 84 13 00-0019	EA		1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100).....	45.18	9.25
32 84 13 00-0020			Drip Emitter Irrigation Tubing (32 84 13 00-0001) Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.		
32 84 13 00-0021	LF		1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100).....	3.16	1.30
32 84 13 00-0022	LF		1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100).....	3.14	1.48
32 84 13 00-0023	LF		1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100).....	2.72	1.30
			For Shallow Trenching And Backfill By Hand, Add	5.32	
32 84 13 00-0024	LF		1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100).....	3.11	1.48
			For Shallow Trenching And Backfill By Hand, Add	5.76	
32 84 13 00-0025			Drip Emitter Irrigation Fittings (32 84 13 00-0001)		
32 84 13 00-0026	EA		1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN)	2.39	
32 84 13 00-0027	EA		1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL).....	2.41	
32 84 13 00-0028	EA		1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE).....	2.44	
32 84 13 00-0029	EA		1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025).....	2.52	
32 84 13 00-0030	EA		1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX)	2.38	
32 84 13 00-0031	EA		17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP)	2.48	
			For Compression Fitting, Add	0.17	
32 84 13 00-0032	EA		17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW).....	2.52	
			For Compression Fitting, Add	0.21	
32 84 13 00-0033	EA		17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE)	2.55	
			For Compression Fitting, Add	0.24	
32 84 13 00-0034	EA		17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050)	2.56	
			For Compression Fitting, Add	0.25	
32 84 13 00-0035	EA		17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS)	2.66	
			For Compression Fitting, Add	0.35	
32 84 13 00-0036	EA		1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP).....	2.78	
32 84 13 00-0037	EA		12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND)	1.38	
32 84 13 00-0038			Drip Emitters (32 84 13 00-0001)		
32 84 13 00-0039	EA		0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC).....	4.89	
32 84 13 00-0040	EA		5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24)	5.33	
32 84 13 00-0041	EA		0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056)	10.10	
32 84 13 00-0042			Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters (32 84 13 00-0001)		
32 84 13 00-0043	EA		Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK)	19.20	8.33
32 84 13 00-0044	EA		Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK)	19.23	8.33
32 84 13 00-0045	EA		12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL).....	20.46	8.33
32 84 13 00-0046	EA		24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL).....	20.59	8.33
32 84 13 00-0047	EA		4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL)	28.90	10.92
			Note: Includes nozzle.		
32 84 13 00-0048	EA		6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL)	30.49	10.92
			Note: Includes nozzle.		
32 84 13 00-0049	EA		12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL)	28.59	10.92
			Note: Includes nozzle.		
32 84 13 00-0050			Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001) Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051	LF		0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield)	3.58	1.62
32 84 23			Underground Sprinklers (32 84)		
32 84 23 00-0001			Sprinkler Heads (32 84 23)		
32 84 23 00-0002			Spray Sprinkler Heads (32 84 23 00-0001) Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003	EA		2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P).....	25.86	10.22
			For Rotary Nozzle, Add	3.25	
32 84 23 00-0004	EA		4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P).....	24.96	10.22
			For Rotary Nozzle, Add	3.25	
32 84 23 00-0005	EA		6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P).....	28.30	10.22
			For Rotary Nozzle, Add	3.25	
32 84 23 00-0006	EA		12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P).....	31.11	10.22
			For Rotary Nozzle, Add	3.25	
32 84 23 00-0007	EA		4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM)	26.22	10.22
			For Rotary Nozzle, Add	3.25	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0008	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)	30.93	10.22
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0009	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)	33.19	10.22
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0010	EA	4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)	27.56	10.22
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0011	EA	6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)	31.85	10.22
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0012	EA	12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)	33.97	10.22
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0013	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS)	28.10	10.22
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0014	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS)	34.68	10.22
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0015	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)	36.77	10.22
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0016	EA	Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)	23.20	10.22
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0017	EA	Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400)	25.29	10.22
32 84 23 00-0018		Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001) Note: Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0019		1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020	EA	4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC)	32.48	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0021	EA	4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)	33.22	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0022		3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC)	30.69	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0024	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC)	38.74	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0025	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS)	32.18	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0026	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS)	39.93	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0027	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR)	32.78	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0028	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR)	33.97	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0029	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR)	41.72	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0030	EA	12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR)	46.49	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0031	EA	Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS)	33.82	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0032	EA	Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR)	38.59	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0033		1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034	EA	4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC)	49.92	10.22
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
		<i>For Stainless Steel Riser And High Speed Rotor, Add</i>	21.94	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0035			1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036	EA		5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005)	67.21	10.22
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0037			Impact-Drive Sprinkler Heads (32 84 23 00-0001) Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038	EA		1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08).....	41.57	10.22
			For Non-Potable Cover, Add	2.00	
32 84 23 00-0039	EA		1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08).....	34.42	10.22
32 84 23 00-0040	EA		3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB)	58.26	10.22
32 84 23 00-0041			Electric Remote Control Irrigation Valves (32 84 23)		
32 84 23 00-0042			0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0043	EA		3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV)	108.98	42.60
32 84 23 00-0044	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV)	108.98	42.60
32 84 23 00-0045	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS).....	121.16	48.57
32 84 23 00-0046	EA		1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA)	109.58	42.60
32 84 23 00-0047			0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0048	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF)	109.58	42.60
32 84 23 00-0049	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS)	122.06	48.57
32 84 23 00-0050	EA		1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB).....	122.65	48.57
32 84 23 00-0051			0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041) Note: 20 to 200 PSI.		
32 84 23 00-0052	EA		1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB)	157.28	42.60
32 84 23 00-0053	EA		1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB)	178.15	42.60
32 84 23 00-0054	EA		2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB)	204.99	42.60
32 84 23 00-0055			5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056	EA		1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D)	213.85	47.88
32 84 23 00-0057	EA		1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D)	234.72	47.88
32 84 23 00-0058	EA		2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D)	261.55	47.88
32 84 23 00-0059			20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060	EA		1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D)	243.66	47.88
32 84 23 00-0061	EA		1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D)	264.53	47.88
32 84 23 00-0062	EA		2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D)	291.37	47.88
32 84 23 00-0063			0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA		1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B)	216.64	42.60
32 84 23 00-0065	EA		1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B)	312.59	42.60
32 84 23 00-0066	EA		2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B)	321.27	42.60
32 84 23 00-0067	EA		3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B)	718.70	57.51

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 84 23 00-0068	5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.				
32 84 23 00-0069	EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP)	207.38		47.88	
32 84 23 00-0070	EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP)	235.91		47.88	
32 84 23 00-0071	EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP)	266.89		47.88	
32 84 23 00-0072	EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP)	307.68		47.88	
32 84 23 00-0073	0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.				
32 84 23 00-0074	EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS)	261.01		47.88	
32 84 23 00-0075	EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS)	374.85		47.88	
32 84 23 00-0076	EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS)	384.61		47.88	
32 84 23 00-0077	EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS)	756.49		47.88	
32 84 23 00-0078	0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.				
32 84 23 00-0079	EA 1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B-ACCU-SYNC-ADJ)	260.01		42.60	
32 84 23 00-0080	EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B-ACCU-SYNC-ADJ)	355.96		42.60	
32 84 23 00-0081	EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B-ACCU-SYNC-ADJ)	364.64		42.60	
32 84 23 00-0082	EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B-ACCU-SYNC-ADJ)	762.07		57.51	
32 84 23 00-0083	5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.				
32 84 23 00-0084	EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D)	252.10		47.88	
32 84 23 00-0085	EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D)	280.63		47.88	
32 84 23 00-0086	EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D)	311.61		47.88	
32 84 23 00-0087	EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D)	352.40		47.88	
32 84 23 00-0088	0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.				
32 84 23 00-0089	EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ)	304.38		47.88	
32 84 23 00-0090	EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ)	418.22		47.88	
32 84 23 00-0091	EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ)	427.98		47.88	
32 84 23 00-0092	EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ)	799.86		47.88	
32 84 23 00-0093	Other Electric Remote Control Valves/Accessories (32 84 23 00-0041)				
32 84 23 00-0094	EA Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL)	78.81			
32 84 23 00-0095	Remote Control Valve Assemblies (32 84 23 00-0041) Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.				
32 84 23 00-0096	EA 1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	369.63		106.51	
32 84 23 00-0097	EA 1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	390.50		106.51	
32 84 23 00-0098	EA 2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	417.33		106.51	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0099 EA 1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	399.44	106.51
32 84 23 00-0100 EA 1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	420.32	106.51
32 84 23 00-0101 EA 2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	447.15	106.51
32 84 23 00-0102 EA 1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	407.88	106.51
32 84 23 00-0103 EA 1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	467.39	106.51
32 84 23 00-0104 EA 2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	508.18	106.51
32 84 23 00-0105 Irrigation Valve Boxes (32 84 23) Note: Includes lid.		
32 84 23 00-0106 EA 6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND)	70.49	30.67
32 84 23 00-0107 EA 7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND)	77.53	30.67
32 84 23 00-0108 EA 10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND)	101.82	40.39
32 84 23 00-0109 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD)	171.94	58.96
32 84 23 00-0110 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH)	174.77	58.96
32 84 23 00-0111 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB)	195.07	58.96
32 84 23 00-0112 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH)	197.49	58.96
32 84 23 00-0113 EA 33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH)	313.52	58.96
32 84 23 00-0114 EA 40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH)	463.80	58.96
32 84 23 00-0115 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid	307.59	101.84
For 12" Extension, Add	62.12	
32 84 23 00-0116 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid	455.22	101.84
For 12" Extension, Add	62.12	
32 84 23 00-0117 EA 12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12)	140.39	51.12
32 84 23 00-0118 EA 15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12)	196.35	58.96
32 84 23 00-0119 EA 10" Round Irrigation Valve Box With Lid (Carson 910-10)	110.38	40.39
32 84 23 00-0120 Irrigation Controllers (32 84 23) See CSI section 27 14 13 16-0074 for low voltage wiring.		
32 84 23 00-0121 Irrigation Controllers (32 84 23 00-0120)		
32 84 23 00-0122 Irrigation Controllers (Rain Bird®) (32 84 23 00-0121)		
32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) (32 84 23 00-0122)		
32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0123)		
32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) (32 84 23 00-0124)		
32 84 23 00-0126 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	211.45	27.16
32 84 23 00-0127 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	296.52	27.16
32 84 23 00-0128 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	381.57	27.16
32 84 23 00-0129 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	466.63	27.16
32 84 23 00-0130 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	524.53	27.16
32 84 23 00-0131 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	612.98	27.16
32 84 23 00-0132 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	701.44	27.16
32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0124)		
32 84 23 00-0134 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	237.73	27.16
32 84 23 00-0135 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	322.80	27.16
32 84 23 00-0136 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	407.85	27.16
32 84 23 00-0137 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	492.91	27.16
32 84 23 00-0138 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	550.81	27.16
32 84 23 00-0139 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	639.26	27.16
32 84 23 00-0140 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	727.72	27.16
32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0123)		
32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)		
32 84 23 00-0143 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	302.75	27.16
32 84 23 00-0144 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	387.82	27.16
32 84 23 00-0145 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	472.87	27.16

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0146 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	557.93	27.16
32 84 23 00-0147 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	615.83	27.16
32 84 23 00-0148 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	704.28	27.16
32 84 23 00-0149 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	792.74	27.16
32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0141)		
32 84 23 00-0151 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	322.44	27.16
32 84 23 00-0152 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	407.51	27.16
32 84 23 00-0153 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	492.56	27.16
32 84 23 00-0154 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	577.62	27.16
32 84 23 00-0155 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	635.52	27.16
32 84 23 00-0156 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	723.97	27.16
32 84 23 00-0157 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	812.43	27.16
32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0123)		
32 84 23 00-0159 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3)	88.45	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0160 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6)	171.43	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0161 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG)	195.46	
32 84 23 00-0162 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) (32 84 23 00-0122)		
32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) (32 84 23 00-0162)		
32 84 23 00-0164 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	476.67	27.16
32 84 23 00-0165 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	582.40	27.16
32 84 23 00-0166 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	689.40	27.16
32 84 23 00-0167 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	795.12	27.16
32 84 23 00-0168 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	902.13	27.16
32 84 23 00-0169 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,007.86	27.16
32 84 23 00-0170 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,114.86	27.16
32 84 23 00-0171 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,220.58	27.16
32 84 23 00-0172 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,327.59	27.16
32 84 23 00-0173 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,433.33	27.16
32 84 23 00-0174 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0162)		
32 84 23 00-0175 EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	447.42	27.16
32 84 23 00-0176 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	553.15	27.16
32 84 23 00-0177 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	660.16	27.16
32 84 23 00-0178 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	765.88	27.16
32 84 23 00-0179 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	872.88	27.16
32 84 23 00-0180 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	978.62	27.16
32 84 23 00-0181 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,085.61	27.16
32 84 23 00-0182 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,191.34	27.16
32 84 23 00-0183 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,298.34	27.16
32 84 23 00-0184 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,404.07	27.16
32 84 23 00-0185 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,511.08	27.16
32 84 23 00-0186 Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0162)		
32 84 23 00-0187 EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM)	300.54	
32 84 23 00-0188 EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMPED + LXMM)	687.12	
Note: Excludes concrete foundation.		
32 84 23 00-0189 EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS)	622.40	
32 84 23 00-0190 EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS)	1,375.46	
Note: Excludes concrete foundation.		
32 84 23 00-0191 EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4)	105.73	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0192 EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8)	212.72	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193 EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12)	327.22	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194 EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME)	114.87	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0195 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)		
32 84 23 00-0196 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0195)		
32 84 23 00-0197 EA 1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	215.32	27.16
32 84 23 00-0198 EA 2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	264.80	27.16
32 84 23 00-0199 EA 4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	342.07	27.16
32 84 23 00-0200 Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0195)		
32 84 23 00-0201 EA Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS)	223.07	
32 84 23 00-0202 EA Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL)	60.72	20.38
32 84 23 00-0203 Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)		
32 84 23 00-0204 EA Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDBEX).....	102.51	20.38
32 84 23 00-0205 EA Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC)	195.08	20.38
32 84 23 00-0206 EA Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC).....	202.73	20.38
32 84 23 00-0207 EA Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y)	269.02	20.38
32 84 23 00-0208 Two-Wire Decoder Systems (32 84 23 00-0120)		
32 84 23 00-0209 Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0208)		
32 84 23 00-0210 Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0209) Note: Includes water resistant cabinet.		
32 84 23 00-0211 EA 50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	1,227.52	27.16
32 84 23 00-0212 EA 125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	1,900.42	27.16
32 84 23 00-0213 EA 200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	2,573.34	27.16
32 84 23 00-0214 Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0215 EA One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF).....	161.07	27.16
32 84 23 00-0216 EA One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF)	202.68	27.16
32 84 23 00-0217 EA Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF).....	297.02	27.16
32 84 23 00-0218 EA Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF).....	351.05	27.16
32 84 23 00-0219 EA Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF)	560.35	27.16
32 84 23 00-0220 Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0221 EA 50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD).....	938.21	
32 84 23 00-0222 EA 75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75)	672.90	
32 84 23 00-0223 EA Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF).....	123.15	23.77
32 84 23 00-0224 EA Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF).....	472.63	27.16
32 84 23 00-0225 Calsense Controllers (32 84 23 00-0120)		
32 84 23 00-0226 Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0227 EA 6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6).....	1,572.07	67.91
32 84 23 00-0228 EA 8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8).....	2,023.26	76.39
32 84 23 00-0229 EA 12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12).....	2,768.39	84.88
32 84 23 00-0230 EA 16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16).....	3,042.28	84.88
32 84 23 00-0231 EA 24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24).....	3,593.69	93.37
32 84 23 00-0232 EA 32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32).....	4,328.53	93.37
32 84 23 00-0233 EA 40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40).....	4,899.96	101.86
32 84 23 00-0234 EA 48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48).....	5,481.15	101.86
32 84 23 00-0235 EA Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE)	1,586.16	33.95
32 84 23 00-0236 EA Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE)	675.21	33.95
32 84 23 00-0237 Irrigation Controller Accessories (32 84 23 00-0225)		
32 84 23 00-0238 EA Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1).....	64.13	
32 84 23 00-0239 EA Spare Lock For Enclosures (Calsense PAD)	69.48	
32 84 23 00-0240 EA Hardware And Software For Up To 4 Additional Light Circuits (Calsense L)	86.45	8.49
32 84 23 00-0241 EA Transformer For Irrigation Controllers (Calsense TR-1).....	134.71	33.95
32 84 23 00-0242 EA AC Line Protection For Irrigation Controllers (Calsense TP-110)	341.80	33.95
32 84 23 00-0243 EA Transient Protection Board For Irrigation Controller Stations (Calsense TP-1)	448.69	33.95
For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add		
	337.19	
32 84 23 00-0244 Sensors For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0245 Flow Sensors (32 84 23 00-0244)		
32 84 23 00-0246 EA 1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5)	783.25	50.92
For Flow Meter Replacement Insert Only, Deduct		
	-420.34	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0247 EA 2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2) 809.97		50.92
For Flow Meter Replacement Insert Only, Deduct	-447.06	
32 84 23 00-0248 EA 3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3) 836.69		50.92
For Flow Meter Replacement Insert Only, Deduct	-473.78	
32 84 23 00-0249 EA 1" Brass Tee Mounted Flow Meter (Calsense FM 1B) 930.77		67.91
For Flow Meter Replacement Insert Only, Deduct	-567.65	
32 84 23 00-0250 EA 1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B) 997.57		67.91
For Flow Meter Replacement Insert Only, Deduct	-634.45	
32 84 23 00-0251 EA 1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B) 1,024.29		67.91
For Flow Meter Replacement Insert Only, Deduct	-661.17	
32 84 23 00-0252 EA 2" Brass Tee Mounted Flow Meter (Calsense FM 2B) 1,197.98		67.91
For Flow Meter Replacement Insert Only, Deduct	-706.58	
32 84 23 00-0253 EA 2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX) 922.99		33.95
Note: For 4" and larger pipe. Excludes pipe saddle.		
For Flow Meter Replacement Insert Only, Deduct	-431.58	
32 84 23 00-0254 Moisture Sensors (32 84 23 00-0244)		
32 84 23 00-0255 EA Soil Moisture Sensor (Calsense 1000-S) 331.49		25.46
32 84 23 00-0256 Weather Sensors (32 84 23 00-0244)		
32 84 23 00-0257 EA Wind Gage, Irrigation Weather Sensor (Calsense WG-1) 904.04		67.91
32 84 23 00-0258 EA Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1) 1,066.57		135.81
32 84 23 00-0259 EA ET Gage, Irrigation Weather Sensor (Calsense ETG) 2,040.79		101.86
32 84 23 00-0260 Weather Sensor Accessories (32 84 23 00-0244)		
32 84 23 00-0261 EA Replacement Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C) 602.33		
32 84 23 00-0262 EA Replacement Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB) 1,123.40		
32 84 23 00-0263 EA Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE) 602.33		33.95
32 84 23 00-0264 EA Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE) 1,363.33		33.95
32 84 23 00-0265 Antennas For Irrigation Controllers (32 84 23 00-0225)		
Note: Excludes antenna cable.		
32 84 23 00-0266 EA Local Radio Dome Antenna (Calsense LR-DOME) 321.76		33.95
32 84 23 00-0267 EA Local Radio Stick Antenna (Calsense LR-STICK) 462.05		33.95
32 84 23 00-0268 EA Local Radio Yagi Antenna (Calsense LR-YAGI) 529.95		67.91
32 84 23 00-0269 EA Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR) 321.76		33.95
32 84 23 00-0270 EA Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE) 321.76		33.95
32 84 23 00-0271 EA GPRS Stubby Antenna (Calsense GR-STUBBY) 321.76		33.95
32 84 23 00-0272 EA GPRS Stick Antenna (Calsense GR-STICK) 462.05		33.95
32 84 23 00-0273 EA Spread Spectrum Dome Antenna (Calsense SR-DOME) 321.76		33.95
32 84 23 00-0274 EA Spread Spectrum Stick Antenna (Calsense SR-STICK) 462.05		33.95
32 84 23 00-0275 EA Spread Spectrum Yagi Antenna (Calsense SR-YAGI) 529.95		67.91
32 84 23 00-0276 EA Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR) 321.76		33.95
32 84 23 00-0277 EA Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE) 321.76		33.95
32 84 23 00-0278 EA Spread Spectrum Stubby Antenna (Calsense SR-STUBBY) 321.76		33.95
32 84 23 00-0279 EA WiFi Stubby Antenna (Calsense WEN-STUBBY) 321.76		33.95
32 84 23 00-0280 LF Antenna Cable With End Connectors (Calsense LMR-400-DB) 8.56		0.41
32 84 23 00-0281 EA Surge Protection Device For Antenna (Calsense ANT-PROT) 314.52		16.97
32 84 23 00-0282 EA 5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIPS) 515.49		33.95
32 84 23 00-0283 EA 3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM) 434.22		
32 84 23 00-0284 EA Local Radio Frequency Filter (Calsense LR-FILTER) 614.59		
32 84 23 00-0285 EA Spread Spectrum Frequency Filter (Calsense SR-FILTER) 454.26		
32 84 23 00-0286 Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0287 EA 15 Amp, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER) 302.27		50.92
32 84 23 00-0288 EA Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX) 716.32		84.88
32 84 23 00-0289 EA Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP) 769.34		33.95
Note: Includes GFI and receptacle.		
32 84 23 00-0290 EA Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1) 912.68		25.46
Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0291 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE) 2,837.52		25.46
Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0292 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R) 3,204.02		25.46
Note: Includes factory installed transient protection board, AC line protection and dome antenna.		
32 84 23 00-0293 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D) 4,654.79		50.92
Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.		
32 84 23 00-0294 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R) 4,877.97		50.92
Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.		
32 84 23 00-0295 EA Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM) 162.72		
32 84 23 00-0296 EA Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED) 525.22		
32 84 23 00-0297 Central Computer For Irrigation Control Systems (32 84 23 00-0225)		



Exterior Improvements		32	32
Irrigation		32 80	
Planting Irrigation		32 84	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0298 EA Central Computer For Irrigation Control Systems (Calsense COMP-2).....3,578.10 Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.		
32 84 23 00-0299 EA Command Center Water Management Software For Central Computer (Calsense COMM-1).....6,323.10		
32 84 23 00-0300 EA Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5).....1,218.19 Note: Package price for up to 5 users. Includes remote communication through internet connection.		
32 84 23 00-0301 EA >5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10).....2,388.85 Note: Package price for 6 to 10 users. Includes remote communication through internet connection.		
32 84 23 00-0302 EA Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2) 3,842.96		
32 84 23 00-0303 EA GPRS Radio For Use At Central Computer (Calsense DTR-G) 2,295.59		
32 84 23 00-0304 Data Access Service (32 84 23 00-0225)		
32 84 23 00-0305 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN) 19.43 Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0306 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR) 212.56 Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0307 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR) 910.95 Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0308 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M) 78.95 Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0309 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M) 850.22 Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0310 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M) 3,643.80 Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0311 Communication Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0312 EA FCC License Fee (Calsense).....137.19		
32 84 23 00-0313 EA P.C.I.A. And/Or A.P.C.O. Fee (Calsense).....258.65 Note: Per frequency or frequency pair.		
32 84 23 00-0314 EA Hardware Communication Option For Irrigation Controllers (Calsense M) 704.47 Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.		
32 84 23 00-0315 EA Phone Line Communication Option For Irrigation Controllers (Calsense R) 740.91		
32 84 23 00-0316 EA Ethernet Communication Option For Irrigation Controllers (Calsense EN) 740.91		
32 84 23 00-0317 EA WiFi Communication Option For Irrigation Controllers (Calsense WEN) 1,518.25		
32 84 23 00-0318 EA Local Radio Communication Option For Irrigation Controllers (Calsense LR) 1,931.21		
32 84 23 00-0319 EA Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR) 1,931.21		
32 84 23 00-0320 EA GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR) 1,931.21		
32 84 23 00-0321 EA Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM) 6,194.46		
32 84 23 00-0322 EA Communication Hub For Irrigation Controllers (Calsense HUB) 2,393.31 Note: Accepts up to two communication options. Excludes communication options.		
32 84 23 00-0323 Retrofit Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0324 Weather Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0325 EA Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO) 960.64		
32 84 23 00-0326 EA Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO) 960.64		
32 84 23 00-0327 EA Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO) 960.64		
32 84 23 00-0328 EA Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO) 960.64		
32 84 23 00-0329 Phone Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0330 EA Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO) 1,009.23		
32 84 23 00-0331 EA Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO) 1,191.41		
32 84 23 00-0332 EA Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO) 1,901.96		
32 84 23 00-0333 Local Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0334 EA Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO) 1,130.69		
32 84 23 00-0335 EA Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO) 2,369.58		
32 84 23 00-0336 EA Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO) 3,074.05		
32 84 23 00-0337 Spread Spectrum Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0338 EA Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-Retro) 1,130.69		
32 84 23 00-0339 EA Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR- RETRO) 2,369.58		
32 84 23 00-0340 EA Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO) 3,074.05		
32 84 23 00-0341 Ethernet Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0342 EA Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro) 1,130.69		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0343	EA	Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO)	1,191.41	
32 84 23 00-0344	EA	Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO)	1,901.96	
32 84 23 00-0345		GPRS Radio Modem Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0346	EA	Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO)	1,130.69	
32 84 23 00-0347	EA	Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO)	2,369.58	
32 84 23 00-0348	EA	Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO)	3,074.05	
32 84 23 00-0349		Radio Remote Units For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0350	EA	Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN)	1,136.76	
32 84 23 00-0351	EA	Calsense Integrated Board Radio Remote Receiver Board (Calsense RR/RRe)	240.49	
		Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.		
32 84 23 00-0352	EA	Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG)	103.24	
32 84 23 00-0353	EA	Replacement Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT)	187.01	
32 84 23 00-0354	EA	Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT)	120.21	8.49
		Note: Excludes antenna cable.		
32 84 23 00-0355	EA	Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP)	229.53	8.49
		Note: Excludes antenna cable.		
32 84 23 00-0356	EA	Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome)	247.74	8.49
		Note: Excludes antenna cable.		
32 84 23 00-0357		Satellite Irrigation Controllers (Rain Bird® ESP-SAT) (32 84 23 00-0120)		
		Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358	EA	12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS)	2,699.76	152.78
32 84 23 00-0359	EA	24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS)	2,847.20	161.27
32 84 23 00-0360	EA	40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS)	3,931.19	169.75
32 84 23 00-0361		LEIT Controllers (32 84 23 00-0120)		
32 84 23 00-0362		LEIT X Series Irrigation Controller (32 84 23 00-0361)		
32 84 23 00-0363	EA	10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	2,522.87	27.16
32 84 23 00-0364	EA	12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	2,766.33	27.16
32 84 23 00-0365	EA	16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,172.27	27.16
32 84 23 00-0366	EA	20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,578.20	27.16
32 84 23 00-0367	EA	24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,869.19	27.16
32 84 23 00-0368	EA	28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,160.19	27.16
32 84 23 00-0369		LEIT X Series Irrigation Controller Assembly (32 84 23 00-0361)		
		Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370	EA	10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	2,912.18	141.67
32 84 23 00-0371	EA	12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	3,155.63	141.67
32 84 23 00-0372	EA	16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	3,561.56	141.67
32 84 23 00-0373	EA	20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	3,967.49	141.67
32 84 23 00-0374	EA	24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,258.49	141.67
32 84 23 00-0375	EA	28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,549.47	141.67
32 84 23 00-0376		Enclosure For LEIT Controller Assembly (32 84 23 00-0361)		
		Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0377	EA	12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch	1,961.64	187.08
		Note: For LEIT Controller		
32 84 23 00-0378		Hunter Controllers (32 84 23 00-0120)		
32 84 23 00-0379		Hunter XC Hybrid Controller (32 84 23 00-0378)		
		Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0380	EA	6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS)	440.35	67.91
32 84 23 00-0381	EA	12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS)	559.59	84.88
32 84 23 00-0382		DC Latching Solenoid (32 84 23 00-0120)		
32 84 23 00-0383	EA	DC Latching Solenoid (Micro Power Solenoid) For Non LEIT Controllers	26.87	
		Note: As per manufacture of valve.		
32 84 23 00-0384	EA	DC Solenoid For LEIT Controllers (DIG S-305DC)	39.81	
32 84 23 00-0385		Irrigation Controller Enclosure Cabinet (32 84 23 00-0120)		
		Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0386	EA		35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	2,005.36	373.39
32 84 23 00-0387	EA		35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	2,168.05	407.32
32 84 23 00-0388	EA		35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	2,396.65	441.27
32 84 23 00-0389	EA		35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet.....	2,005.38	373.39
32 84 23 00-0390	EA		35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	2,168.05	407.32
32 84 23 00-0391	EA		35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	2,396.65	441.27
32 84 23 00-0392	EA		35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	2,445.34	373.39
32 84 23 00-0393	EA		35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	2,663.00	407.32
32 84 23 00-0394	EA		35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	2,891.60	441.27
32 84 23 00-0395			Irrigation Valves (32 84 23)		
32 84 23 00-0396			Reduced Pressure Zone Valves With QT Shut-Offs (32 84 23 00-0395) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
32 84 23 00-0397	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series).....	308.89	35.18
32 84 23 00-0398	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	368.31	42.95
32 84 23 00-0399	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	534.30	49.99
32 84 23 00-0400	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	571.13	57.39
32 84 23 00-0401	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	693.72	74.06
32 84 23 00-0402			Brass Quick-Coupling Irrigation Valves (32 84 23 00-0395)		
32 84 23 00-0403	EA		3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC).....	106.32	30.67
			For Valve Key, Add.....	21.91	
32 84 23 00-0404	EA		3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC).....	108.86	30.67
			For Locking Cover, Add.....	25.00	
			For Valve Key, Add.....	21.91	
32 84 23 00-0405	EA		1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC).....	136.74	30.67
			For Valve Key, Add.....	56.05	
32 84 23 00-0406	EA		1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC).....	146.87	30.67
			For Valve Key, Add.....	56.05	
32 84 23 00-0407	EA		1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP).....	142.10	30.67
32 84 23 00-0408	EA		1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP).....	146.87	30.67
32 84 23 00-0409			Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0395) Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.		
32 84 23 00-0410	EA		3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	160.09	25.92
32 84 23 00-0411	EA		1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	223.42	29.63
32 84 23 00-0412	EA		1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	390.69	34.25
32 84 23 00-0413	EA		1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	474.59	37.95
32 84 23 00-0414	EA		2" Anti-Siphon Pressure Type Vacuum Breaker.....	484.24	46.28
32 84 23 00-0415			Aluminum Cam And Groove Adapter (32 84 23 00-0395)		
32 84 23 00-0416	EA		1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread.....	31.31	
32 84 23 00-0417	EA		2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread.....	33.02	
32 84 23 00-0418	EA		1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread.....	32.00	
32 84 23 00-0419	EA		2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread.....	34.32	
32 84 23 00-0420			Irrigation Piping (32 84 23)		
32 84 23 00-0421			Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0420) Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.		
32 84 23 00-0422			Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0423	LF		1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	2.40	0.86
			For >1,000, Deduct.....	-0.12	
32 84 23 00-0424	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	2.96	1.07
			For >1,000, Deduct.....	-0.15	
32 84 23 00-0425	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	3.60	1.28
			For >1,000, Deduct.....	-0.18	
32 84 23 00-0426	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	4.78	1.62
			For >1,000, Deduct.....	-0.24	
32 84 23 00-0427	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	6.01	2.03
			For >1,000, Deduct.....	-0.30	
32 84 23 00-0428	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	7.68	2.37
			For >1,000, Deduct.....	-0.38	
32 84 23 00-0429	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	10.56	3.41
			For >1,000, Deduct.....	-0.53	
32 84 23 00-0430	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	13.81	4.26
			For >1,000, Deduct.....	-0.69	
32 84 23 00-0431	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	19.70	5.32
			For >1,000, Deduct.....	-0.99	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0432 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0433 LF 3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	2.79	1.07
For >1,000, Deduct	-0.14	
32 84 23 00-0434 LF 1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	3.31	1.28
For >1,000, Deduct	-0.17	
32 84 23 00-0435 LF 1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	4.59	1.62
For >1,000, Deduct	-0.23	
32 84 23 00-0436 LF 2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	5.85	2.03
For >1,000, Deduct	-0.29	
32 84 23 00-0437 LF 2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	7.43	2.37
For >1,000, Deduct	-0.37	
32 84 23 00-0438 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	10.47	3.41
For >1,000, Deduct	-0.52	
32 84 23 00-0439 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	14.34	4.26
For >1,000, Deduct	-0.72	
32 84 23 00-0440 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	23.03	5.32
For >1,000, Deduct	-1.15	
32 84 23 00-0441 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0442 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	2.93	1.07
For >1,000, Deduct	-0.15	
32 84 23 00-0443 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	3.51	1.28
For >1,000, Deduct	-0.18	
32 84 23 00-0444 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	4.95	1.62
For >1,000, Deduct	-0.25	
32 84 23 00-0445 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	6.46	2.03
For >1,000, Deduct	-0.32	
32 84 23 00-0446 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	8.41	2.37
For >1,000, Deduct	-0.42	
32 84 23 00-0447 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	10.56	3.41
For >1,000, Deduct	-0.53	
32 84 23 00-0448 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	13.81	4.26
For >1,000, Deduct	-0.69	
32 84 23 00-0449 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	20.02	5.32
For >1,000, Deduct	-1.00	
32 84 23 00-0450 Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted (32 84 23 00-0420)		
Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.		
32 84 23 00-0451 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)		
32 84 23 00-0452 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	4.61	1.07
For >1,000, Deduct	-0.23	
32 84 23 00-0453 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.24	1.28
For >1,000, Deduct	-0.26	
32 84 23 00-0454 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.42	1.62
For >1,000, Deduct	-0.32	
32 84 23 00-0455 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.66	2.03
For >1,000, Deduct	-0.38	
32 84 23 00-0456 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	9.33	2.37
For >1,000, Deduct	-0.47	
32 84 23 00-0457 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	12.22	3.41
For >1,000, Deduct	-0.61	
32 84 23 00-0458 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	15.46	4.26
For >1,000, Deduct	-0.77	
32 84 23 00-0459 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	21.34	5.32
For >1,000, Deduct	-1.07	
32 84 23 00-0460 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)		
32 84 23 00-0461 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	4.80	1.07
For >1,000, Deduct	-0.24	
32 84 23 00-0462 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	5.42	1.28
For >1,000, Deduct	-0.27	
32 84 23 00-0463 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.62	1.62
For >1,000, Deduct	-0.33	
32 84 23 00-0464 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.85	2.03
For >1,000, Deduct	-0.39	
32 84 23 00-0465 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	9.53	2.37
For >1,000, Deduct	-0.48	
32 84 23 00-0466 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	12.41	3.41
For >1,000, Deduct	-0.62	
32 84 23 00-0467 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	15.65	4.26
For >1,000, Deduct	-0.78	
32 84 23 00-0468 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	21.53	5.32
For >1,000, Deduct	-1.08	



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

32

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
32 84 23 00-0469 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0470	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	4.99		1.07	
	For >1,000, Deduct	-0.25			
32 84 23 00-0471	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	5.62		1.28	
	For >1,000, Deduct	-0.28			
32 84 23 00-0472	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.81		1.62	
	For >1,000, Deduct	-0.34			
32 84 23 00-0473	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	8.04		2.03	
	For >1,000, Deduct	-0.40			
32 84 23 00-0474	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	9.72		2.37	
	For >1,000, Deduct	-0.49			
32 84 23 00-0475	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	12.59		3.41	
	For >1,000, Deduct	-0.63			
32 84 23 00-0476	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	15.84		4.26	
	For >1,000, Deduct	-0.79			
32 84 23 00-0477	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	21.72		5.32	
	For >1,000, Deduct	-1.09			
32 84 23 00-0478 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0479	LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	4.52		1.07	
	For >1,000, Deduct	-0.23			
32 84 23 00-0480	LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.10		1.28	
	For >1,000, Deduct	-0.26			
32 84 23 00-0481	LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.43		1.62	
	For >1,000, Deduct	-0.32			
32 84 23 00-0482	LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.96		2.03	
	For >1,000, Deduct	-0.40			
32 84 23 00-0483	LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	9.81		2.37	
	For >1,000, Deduct	-0.49			
32 84 23 00-0484	LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	12.12		3.41	
	For >1,000, Deduct	-0.61			
32 84 23 00-0485	LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	15.99		4.26	
	For >1,000, Deduct	-0.80			
32 84 23 00-0486	LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	24.68		5.32	
	For >1,000, Deduct	-1.23			
32 84 23 00-0487 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0488	LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	4.71		1.07	
	For >1,000, Deduct	-0.24			
32 84 23 00-0489	LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	5.28		1.28	
	For >1,000, Deduct	-0.26			
32 84 23 00-0490	LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.63		1.62	
	For >1,000, Deduct	-0.33			
32 84 23 00-0491	LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	8.15		2.03	
	For >1,000, Deduct	-0.41			
32 84 23 00-0492	LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.01		2.37	
	For >1,000, Deduct	-0.50			
32 84 23 00-0493	LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	12.31		3.41	
	For >1,000, Deduct	-0.62			
32 84 23 00-0494	LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	16.18		4.26	
	For >1,000, Deduct	-0.81			
32 84 23 00-0495	LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	24.87		5.32	
	For >1,000, Deduct	-1.24			
32 84 23 00-0496 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0497	LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	4.90		1.07	
	For >1,000, Deduct	-0.25			
32 84 23 00-0498	LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	5.48		1.28	
	For >1,000, Deduct	-0.27			
32 84 23 00-0499	LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.82		1.62	
	For >1,000, Deduct	-0.34			
32 84 23 00-0500	LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	8.34		2.03	
	For >1,000, Deduct	-0.42			
32 84 23 00-0501	LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	10.20		2.37	
	For >1,000, Deduct	-0.51			

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0502	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	12.49 -0.62	3.41
32 84 23 00-0503	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	16.37 -0.82	4.26
32 84 23 00-0504	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	25.06 -1.25	5.32
32 84 23 00-0505 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)				
32 84 23 00-0506	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	4.58 -0.23	1.07
32 84 23 00-0507	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.15 -0.26	1.28
32 84 23 00-0508	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.59 -0.33	1.62
32 84 23 00-0509	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	8.11 -0.41	2.03
32 84 23 00-0510	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	10.05 -0.50	2.37
32 84 23 00-0511	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	12.22 -0.61	3.41
32 84 23 00-0512	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	15.46 -0.77	4.26
32 84 23 00-0513	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	21.67 -1.08	5.32
32 84 23 00-0514 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)				
32 84 23 00-0515	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	4.77 -0.24	1.07
32 84 23 00-0516	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.33 -0.27	1.28
32 84 23 00-0517	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.79 -0.34	1.62
32 84 23 00-0518	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	8.30 -0.42	2.03
32 84 23 00-0519	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	10.25 -0.51	2.37
32 84 23 00-0520	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	12.41 -0.62	3.41
32 84 23 00-0521	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	15.65 -0.78	4.26
32 84 23 00-0522	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	21.86 -1.09	5.32
32 84 23 00-0523 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)				
32 84 23 00-0524	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	4.96 -0.25	1.07
32 84 23 00-0525	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.53 -0.28	1.28
32 84 23 00-0526	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.98 -0.35	1.62
32 84 23 00-0527	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	8.49 -0.42	2.03
32 84 23 00-0528	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	10.44 -0.52	2.37
32 84 23 00-0529	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	12.59 -0.63	3.41
32 84 23 00-0530	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	15.84 -0.79	4.26
32 84 23 00-0531	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	22.05 -1.10	5.32
32 84 23 00-0532 Irrigation Riser Piping With Fittings (32 84 23 00-0420)				
32 84 23 00-0533	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	12.36	2.56



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0534 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	13.46	3.19
32 84 23 00-0535 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	13.37	2.98
32 84 23 00-0536 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	14.74	3.72
32 84 23 00-0537 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	26.05	4.47
32 84 23 00-0538 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	27.99	5.60
32 84 23 00-0539 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	30.71	5.75
32 84 23 00-0540 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	33.20	7.19
32 84 23 00-0541 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	35.36	7.02
32 84 23 00-0542 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	38.41	8.79
32 84 23 00-0543 Irrigation Crossover Piping With Fittings (32 84 23 00-0420) Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0587 for irrigation wiring.		
32 84 23 00-0544 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench (32 84 23 00-0543)		
32 84 23 00-0545 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation For >1,000, Deduct	26.91 -1.35	
32 84 23 00-0546 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation For >1,000, Deduct	37.93 -1.90	
32 84 23 00-0547 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... For >1,000, Deduct	52.10 -2.61	
32 84 23 00-0548 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... For >1,000, Deduct	68.70 -3.44	
32 84 23 00-0549 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench (32 84 23 00-0543)		
32 84 23 00-0550 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	27.48 -1.37	
32 84 23 00-0551 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	38.57 -1.93	
32 84 23 00-0552 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	52.81 -2.64	
32 84 23 00-0553 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	69.46 -3.47	
32 84 23 00-0554 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench (32 84 23 00-0543)		
32 84 23 00-0555 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation For >1,000, Deduct	28.05 -1.40	
32 84 23 00-0556 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	39.20 -1.96	
32 84 23 00-0557 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	53.50 -2.68	
32 84 23 00-0558 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	70.23 -3.51	
32 84 23 00-0559 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore (32 84 23 00-0543)		
32 84 23 00-0560 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	69.90 -3.50	
32 84 23 00-0561 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	89.61 -4.48	
32 84 23 00-0562 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	108.08 -5.40	
32 84 23 00-0563 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	128.96 -6.45	
32 84 23 00-0564 Below Ground Cam Adapter Assembly (32 84 23 00-0420) Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0565 EA Below Ground Cam Adapter Assembly Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	516.03	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0566 Above Ground Cam Adapter Assembly (32 84 23 00-0420)				
Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe				
32 84 23 00-0567	EA	Above Ground Cam Adapter Assembly	325.09	
Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.				
32 84 23 00-0568 Thrust Block (32 84 23 00-0420)				
32 84 23 00-0569	EA	Thrust Block For 1-1/2" Pipe Size And Smaller	30.14	
32 84 23 00-0570	EA	Thrust Block For 2" Pipe	52.20	
32 84 23 00-0571	EA	Thrust Block For 3" And 4" Pipe.....	74.26	
32 84 23 00-0572	EA	Thrust Block For 6" Pipe	118.74	
32 84 23 00-0573	EA	Thrust Block For 8" Pipe	169.85	
32 84 23 00-0574 Irrigation Swing Joints (32 84 23)				
32 84 23 00-0575	EA	3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	40.34	16.96
32 84 23 00-0576	EA	1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12)	45.69	18.93
32 84 23 00-0577	EA	1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS).....	57.62	18.93
32 84 23 00-0578	EA	1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	34.65	22.10
Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.				
32 84 23 00-0579	EA	3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	46.25	29.48
Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.				
32 84 23 00-0580	EA	1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	57.47	36.15
Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.				
32 84 23 00-0581	EA	1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II	49.70	22.44
Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.				
32 84 23 00-0582	EA	3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II	65.68	29.78
Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.				
32 84 23 00-0583	EA	1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II	80.31	36.52
Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.				
32 84 23 00-0584	EA	1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	28.03	13.75
Note: Consists of two street 90 degree elbows.				
32 84 23 00-0585	EA	3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	37.42	18.33
Note: Consists of two street 90 degree elbows.				
32 84 23 00-0586	EA	1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	43.94	22.72
Note: Consists of two street 90 degree elbows.				
32 84 23 00-0587 Irrigation Control Wire (32 84 23)				
Note: Excludes excavation and backfill.				
32 84 23 00-0588 18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)				
32 84 23 00-0589	CLF	1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	36.81	12.78
32 84 23 00-0590	CLF	2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	47.32	14.91
32 84 23 00-0591	CLF	3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	54.40	17.04
32 84 23 00-0592	CLF	4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	62.08	19.17
32 84 23 00-0593	CLF	5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	70.40	21.31
32 84 23 00-0594	CLF	6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	83.11	23.43
32 84 23 00-0595	CLF	7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	95.32	25.56
32 84 23 00-0596	CLF	8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	103.53	27.70
32 84 23 00-0597	CLF	9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	113.39	29.82
32 84 23 00-0598	CLF	10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	124.53	31.95
32 84 23 00-0599	CLF	11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	129.40	34.09
32 84 23 00-0600	CLF	12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	134.92	36.21
32 84 23 00-0601	CLF	13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	142.41	38.34
32 84 23 00-0602 16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)				
32 84 23 00-0603	CLF	1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	38.47	12.78
32 84 23 00-0604 14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)				
32 84 23 00-0605	CLF	1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	38.47	12.78
32 84 23 00-0606 12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)				
32 84 23 00-0607	CLF	1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	49.46	12.78
32 84 23 00-0608 10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)				
32 84 23 00-0609	CLF	1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	63.38	12.78
32 84 23 00-0610 Root Watering Systems (32 84 23)				
Note: Includes swing assembly.				



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0611	EA	0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401).....	62.54	17.04
		For Root Watering Sand Sock, Add	3.89	
32 84 23 00-0612	EA	0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)	66.49	17.04
		For Root Watering Sand Sock, Add	3.89	
32 84 23 00-0613	EA	0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402).....	62.54	17.04
		For Root Watering Sand Sock, Add	3.89	
32 84 23 00-0614	EA	0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402)	66.49	17.04
		For Root Watering Sand Sock, Add	3.89	
32 84 23 00-0615	EA	1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404)	66.49	17.04
		For Root Watering Sand Sock, Add	3.89	
32 84 23 00-0616	EA	0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401)	54.36	14.91
		For Root Watering Sand Sock, Add	3.46	
32 84 23 00-0617	EA	0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)	58.14	14.91
		For Root Watering Sand Sock, Add	3.46	
32 84 23 00-0618	EA	0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402)	54.36	14.91
		For Root Watering Sand Sock, Add	3.46	
32 84 23 00-0619	EA	0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)	58.14	14.91
		For Root Watering Sand Sock, Add	3.46	
32 84 23 00-0620	EA	0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401)	38.61	12.78
		For Root Watering Sand Sock, Add	3.04	
32 84 23 00-0621	EA	0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401).....	42.22	12.78
		For Root Watering Sand Sock, Add	3.04	

32 90 Planting ⁽³²⁾

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation ^(32 90)

32 91 13 Soil Preparation ^(32 91)

32 91 13 16 Mulching ^(32 91 13)

32 91 13 16-0001

Mulch ^(32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.

32 91 13 16-0002	CY	Pine Bark Nugget Mulch	87.73	
		For Work On Slopes >2.5:1, Add	11.01	
		For >5 To 20, Deduct	-7.14	
		For >20 To 50, Deduct	-10.71	
		For >50, Deduct	-15.09	
32 91 13 16-0003	CY	Hardwood Bark Nugget Mulch	86.42	
		For Work On Slopes >2.5:1, Add	11.01	
		For >5 To 20, Deduct	-7.07	
		For >20 To 50, Deduct	-10.61	
		For >50, Deduct	-14.93	
32 91 13 16-0004	CY	Pine Wood Chip Mulch	83.81	
		For Work On Slopes >2.5:1, Add	11.01	
		For >5 To 20, Deduct	-6.94	
		For >20 To 50, Deduct	-10.41	
		For >50, Deduct	-14.60	
32 91 13 16-0005	CY	Hardwood Chip Mulch	89.04	
		For Work On Slopes >2.5:1, Add	11.01	
		For >5 To 20, Deduct	-7.20	
		For >20 To 50, Deduct	-10.81	
		For >50, Deduct	-15.26	
32 91 13 16-0006	CY	Shredded Hardwood Mulch	89.04	
		For Work On Slopes >2.5:1, Add	11.01	
		For >5 To 20, Deduct	-7.20	
		For >20 To 50, Deduct	-10.81	
		For >50, Deduct	-15.26	
32 91 13 16-0007	CY	Shredded Pine Mulch	77.27	
		For Work On Slopes >2.5:1, Add	11.01	
		For >5 To 20, Deduct	-6.62	
		For >20 To 50, Deduct	-9.92	
		For >50, Deduct	-13.79	
32 91 13 16-0008	CY	Shredded Cedar Mulch	102.77	
		For Work On Slopes >2.5:1, Add	11.01	
		For >5 To 20, Deduct	-7.89	
		For >20 To 50, Deduct	-11.84	
		For >50, Deduct	-16.97	
32 91 13 16-0009	CY	Shredded Cypress Mulch	100.81	
		For Work On Slopes >2.5:1, Add	11.01	
		For >5 To 20, Deduct	-7.79	
		For >20 To 50, Deduct	-11.69	
		For >50, Deduct	-16.73	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0010 CY Shredded Redwood Mulch.....	106.04	
For Work On Slopes >2.5:1, Add	11.01	
For >5 To 20, Deduct	-8.05	
For >20 To 50, Deduct	-12.08	
For >50, Deduct	-17.38	
32 91 13 16-0011 CY Pea Gravel Mulch.....	105.72	
For Work On Slopes >2.5:1, Add	11.01	
For >5 To 20, Deduct	-8.04	
For >20 To 50, Deduct	-12.06	
For >50, Deduct	-17.34	
32 91 13 16-0012 CY Chunk Recycled Tire Mulch.....	161.67	
For Work On Slopes >2.5:1, Add	14.03	
For >5 To 20, Deduct	-11.59	
For >20 To 50, Deduct	-17.39	
For >50, Deduct	-25.47	
32 91 13 16-0013 CY Chunk Colored Recycled Tire Mulch.....	251.90	
For Work On Slopes >2.5:1, Add	14.03	
For >5 To 20, Deduct	-16.10	
For >20 To 50, Deduct	-24.15	
For >50, Deduct	-36.75	
32 91 13 16-0014 CY Shredded Recycled Tire Mulch.....	253.20	
For Work On Slopes >2.5:1, Add	14.03	
For >5 To 20, Deduct	-16.17	
For >20 To 50, Deduct	-24.25	
For >50, Deduct	-36.91	
32 91 13 16-0015 CY Shredded Colored Recycled Tire Mulch	433.65	
For Work On Slopes >2.5:1, Add	14.03	
For >5 To 20, Deduct	-25.19	
For >20 To 50, Deduct	-37.78	
For >50, Deduct	-59.47	
32 91 13 16-0016 EA Pine Straw Mulch Bale.....	7.61	
Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
For Work On Slopes >2.5:1, Add	0.61	
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.69	
For >500, Deduct	-0.91	
32 91 13 16-0017 EA Wheat Straw Mulch Bale.....	7.66	
Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
For Work On Slopes >2.5:1, Add	0.46	
For >100 To 250, Deduct	-0.50	
For >250 To 500, Deduct	-0.61	
For >500, Deduct	-0.88	
32 91 13 16-0018 CY Stone/Gravel Mulch, Marble Chips	203.67	
For Work On Slopes >2.5:1, Add	11.01	
For >5 To 20, Deduct	-12.94	
For >20 To 50, Deduct	-19.40	
For >50, Deduct	-29.59	
32 91 13 16-0019 CY Stone Mulch, Decomposed Granite Chips	93.96	
For Work On Slopes >2.5:1, Add	11.01	
For >5 To 20, Deduct	-7.45	
For >20 To 50, Deduct	-11.18	
For >50, Deduct	-15.87	
32 91 13 16-0020 Compost Soil Amendment (AgriService) (32 91 13 16)		
Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles.		
32 91 13 16-0021 CY Humic Compost (OIM)	66.24	
Note: (Agri Service or Equal)		
For Work On Slopes >2.5:1, Add	11.01	
For >100 To 1,000, Deduct	-11.57	
For >1,000, Deduct	-17.63	
32 91 13 26 Planting Beds (32 91 13)		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001 Plant Bed Preparation (32 91 13 26)		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002 SF Prepare And Mix Plant Bed, Up To 8" Deep By Machine.....	0.86	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.17	
32 91 13 26-0003 SF Prepare And Mix Plant Bed, 9" To 13" Deep By Machine.....	0.99	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.20	
32 91 13 26-0004 SF Prepare And Mix Plant Bed, 14" To 18" Deep By Machine.....	1.17	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.23	
32 91 13 26-0005 SF Prepare And Mix Plant Bed By Hand, Up To 8" Deep.....	3.92	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.78	



Exterior Improvements			32
Planting			32 90
Planting Preparation			32 91

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0006	SF		Prepare And Mix Plant Bed By Hand, 9" To 13" Deep..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	4.51 0.90	
32 91 13 26-0007	SF		Prepare And Mix Plant Bed By Hand, 14" To 18" Deep..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	5.31 1.06	
32 91 13 26-0008 Plant Bed Preparation With Humic Compost (32 91 13 26)					
32 91 13 26-0009	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	0.95 0.18 -0.14 -0.23 -0.46 -0.65	
32 91 13 26-0010	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.17 0.22 -0.17 -0.28 -0.55 -0.78	
32 91 13 26-0011	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.38 0.26 -0.19 -0.32 -0.65 -0.91	
32 91 13 26-0012 Planting Pit Preparation (32 91 13 26)					
			Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013	CY		Excavate Planting Pit By Hand, Sandy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	67.91 13.58	
32 91 13 26-0014	CY		Excavate Planting Pit By Hand, Heavy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	135.81 27.16	
32 91 13 26-0015	CY		Excavate Planting Pit By Machine, Sandy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	10.57 2.11	
32 91 13 26-0016	CY		Excavate Planting Pit By Machine, Heavy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	13.75 2.75	
32 91 13 26-0017	CY		Backfill Planting Pit By Hand With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	60.34 12.07	
32 91 13 26-0018	CY		Backfill Planting Pit By Hand With Contractor Furnished Planting Mix <i>For Work On Slopes >2.5:1, Add</i>	100.12 11.01	
32 91 13 26-0019	CY		Backfill Planting Pit By Machine, With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	5.83 1.17	
32 91 13 26-0020	CY		Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix <i>For Work On Slopes >2.5:1, Add</i>	59.69 2.92	
32 91 13 26-0021 Weed Barrier (32 91 13 26)					
32 91 13 26-0022	SY		Up To 3 Oz/SY Non Woven, Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	1.45 0.11	
32 91 13 26-0023	SY		4 Oz/SY Woven, Polypropylene Weed Barrier..... <i>For Work On Slopes >2.5:1, Add</i>	1.92 0.11	
32 91 13 26-0024	SY		5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	2.13 0.11	
32 91 13 33 Soil Conditioners (32 91 13)					
32 91 13 33-0001 Spread Soil Conditioners (32 91 13 33)					
32 91 13 33-0002	SY		Aluminum Sulfate 1 LB/SY, Push Spreader.....	0.18	
32 91 13 33-0003	MSF		Aluminum Sulfate 1 LB/SY, Tractor Spreader.....	15.34	
32 91 13 33-0004	SY		Fertilizer, 0.2 LB/SY, Push Spreader.....	0.04	
32 91 13 33-0005	MSF		Fertilizer, 0.2 LB/SY, Tractor Spread.....	1.68	
32 91 13 33-0006	MSF		Fertilizer, 18.36 LB/MSF, Truck Spread.....	3.57	
32 91 13 33-0007	SY		Pelletized Lime, 1 LB/SY, Push Spreader.....	0.06	
32 91 13 33-0008	MSF		Pelletized Lime, 1 LB/SY, Tractor Spreader.....	3.38	
32 91 13 33-0009	SY		Perlite, 1" Deep, Push Spreader.....	1.36	
32 91 13 33-0010	MSF		Perlite, 1" Deep, Tractor Spreader.....	140.05	
32 91 13 33-0011	SY		Vermiculite, Push Spreader.....	1.27	
32 91 13 33-0012	MSF		Vermiculite, Tractor Spreader.....	136.82	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 33-0013	SY	Humate Granular Soil Conditioner, 10 LB/MSF, Push Spreader	0.13	
32 91 13 33-0014	MSF	Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader	11.47	
32 91 13 36 Lawn Bed Preparation (32 91 13)				
32 91 13 36-0001 Lawn Bed Preparation (32 91 13 36)				
32 91 13 36-0002	MSF	Rake Topsoil With Machine	66.22	
32 91 13 36-0003	MSF	Rake Topsoil By Hand	54.32	
32 91 13 36-0004	MSF	Screen Loam By Hand	36.21	
32 91 13 36-0005	SY	Roll Topsoil With Machine	0.84	
32 91 13 36-0006	SY	Roll Topsoil By Hand	2.43	
32 91 13 36-0007	MSF	Removal Of Rocks And Debris With Machine	7.84	
32 91 13 36-0008	MSF	Removal Of Rocks And Debris By Hand	24.61	
32 91 13 36-0009	MSF	Root Raking And Loading, No Boulders	40.98	
		For >45 to 225, Deduct	-28.69	
		For >225, Deduct	-36.88	
32 91 13 36-0010	MSF	Root Raking And Loading, With Boulders	68.31	
		For >45 to 225, Deduct	-47.82	
		For >225, Deduct	-61.48	
32 91 13 36-0011	MSF	Up To 6" Deep Tilling Topsoil With Tractor	3.66	
32 91 13 36-0012	MSF	>6" To 12" Deep Tilling Topsoil With Tractor	7.42	
		For Work On Slopes >2.5:1, Add	1.48	
32 91 13 36-0013	SY	Up To 2" Deep Tilling Topsoil With Rototiller	0.57	
32 91 13 36-0014	SY	>2" To 4" Deep Tilling Topsoil With Rototiller	0.70	
32 91 13 36-0015	SY	>4" To 6" Deep Tilling Topsoil With Rototiller	0.87	
32 91 13 36-0016	LF	"V" Cut Soil For Edge Of Planting Beds	0.96	
32 91 13 36-0017 Sod Removal (32 91 13 36)				
32 91 13 36-0018	SY	Removal Of Sod By Hand	4.57	
		For Work On Slopes >2.5:1, Add	0.91	
32 91 13 36-0019	SY	Removal Of Sod With Machine	0.49	
		For Work On Slopes >2.5:1, Add	0.10	
32 91 13 36-0020	SY	Pile Sod By Hand	2.72	
		For Work On Slopes >2.5:1, Add	0.54	
32 91 13 36-0021	SY	Pile Sod With Machine	0.93	
		For Work On Slopes >2.5:1, Add	0.19	
32 91 19 Landscape Grading (32 91)				
32 91 19 13 Topsoil Placement And Grading (32 91 19)				
32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)				
32 91 19 13-0002	CY	Removal Of Topsoil, 4" Deep Stockpile On Site	3.82	
32 91 19 13-0003	CY	Removal Of Topsoil, 6" Deep Stockpile On Site	3.78	
32 91 19 13-0004 Screening Topsoil (32 91 19 13)				
32 91 19 13-0005	CY	Screen Topsoil With Vibrating Screen, Wet Material (Organic)	8.31	
32 91 19 13-0006	CY	Screen Topsoil With Vibrating Screen, Dry Material	5.55	
32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)				
32 91 19 13-0008	CY	Spread Topsoil By Machine From Stockpile	6.28	
32 91 19 13-0009	CY	Spread Topsoil By Hand From Stockpile	51.83	
32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)				
Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0048 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.				
32 91 19 13-0011	SY	Furnish And Place Imported Screened Topsoil, 2" Deep	3.34	
		For Unscreened, Deduct	-0.47	
32 91 19 13-0012	SY	Furnish And Place Imported Screened Topsoil, 4" Deep	6.45	
		For Unscreened, Deduct	-0.95	
32 91 19 13-0013	SY	Furnish And Place Imported Screened Topsoil, 6" Deep	9.37	
		For Unscreened, Deduct	-1.42	
32 91 19 13-0014	SY	Furnish And Place Imported Screened Topsoil, 9" Deep	13.58	
		For Unscreened, Deduct	-2.13	
32 91 19 13-0015	SY	Furnish And Place Imported Screened Topsoil, 12" Deep	17.79	
		For Unscreened, Deduct	-2.83	
32 91 19 13-0016	CY	Furnish And Place Imported Screened Topsoil, Over 12" Deep	49.44	
		For Unscreened, Deduct	-8.50	
32 91 19 16 Scarify Soil (32 91 19)				
32 91 19 16-0001 Scarify Soil For Planting Preparation (32 91 19 16)				
Note: Ripped in multiple directions with 3" maximum clods.				
32 91 19 16-0002	MSF	Up To 5,000 SF Scarify Up To 8" Soil With Machine	49.46	
32 91 19 16-0003	MSF	>5,000 To 20,000 SF Scarify Up To 8" Soil With Machine	34.61	



Exterior Improvements		32	32
Planting		32 90	
Planting Preparation		32 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 91 19 16-0004 MSF >20,000 SF Scarify Up To 8" Soil With Machine.....20.29

32 92 Turf And Grasses (32 90)

32 92 16 Plugging (32 92)

32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep (32 92 16)
Note: Includes fine grade and soil preparation.

32 92 16 00-0002 6" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0003 MSF Plugging By Hand, 6" On Center 183.49
32 92 16 00-0004 MSF Plugging By Walk Behind Planter, 6" On Center.....32.24
32 92 16 00-0005 MSF Plugging By Towed Planter, 6" On Center.....26.09

32 92 16 00-0006 9" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0007 MSF Plugging By Hand, 9" On Center 140.54
32 92 16 00-0008 MSF Plugging By Walk Behind Planter, 9" On Center.....24.90
32 92 16 00-0009 MSF Plugging By Towed Planter, 9" On Center.....19.47

32 92 16 00-0010 12" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0011 MSF Plugging By Hand, 12" On Center 116.95
32 92 16 00-0012 MSF Plugging By Walk Behind Planter, 12" On Center.....16.49
32 92 16 00-0013 MSF Plugging By Towed Planter, 12" On Center.....12.31

32 92 19 Seeding (32 92)

32 92 19 13 Mechanical Seeding (32 92 19)

Note: Includes fertilizing, liming, mixing, seeding and initial watering.

32 92 19 13-0001 Tractor Spreader Mechanical Seeding (32 92 19 13)

Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.

32 92 19 13-0002 MSF Common Bluegrass, Tractor Spreader 43.63
Note: 4 LB/MSF spread rate.
32 92 19 13-0003 MSF Tall Fescue, Tractor Spreader 28.59
Note: 5.5 LB/MSF spread rate.
32 92 19 13-0004 MSF Rye, Tractor Spreader 29.17
Note: 10 LB/MSF spread rate.
32 92 19 13-0005 MSF Shade Mix, Tractor Spreader.....32.10
Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.
32 92 19 13-0006 MSF Turf Mix, Tractor Spreader.....34.20
Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.
32 92 19 13-0007 MSF Slope Mix, Tractor Spreader 31.40
Note: 6 LB/MSF spread rate.
32 92 19 13-0008 MSF Utility Mix, Tractor Spreader 27.90
Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.
32 92 19 13-0009 MSF Wild Flower Mix, Tractor Spreader 21.30
Note: 0.10 LB/MSF spread rate.
32 92 19 13-0010 MSF Crown Vetch Mix, Tractor Spreader.....73.48
Note: 4 LB/MSF spread rate.
32 92 19 13-0011 MSF Athletic Mix, Tractor Spreader 42.62
Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.
32 92 19 13-0012 MSF White Clover Mix, Tractor Spreader.....21.23
Note: 7 LB/MSF spread rate.
32 92 19 13-0013 MSF Ladino Clover Mix, Tractor Spreader 24.03
Note: 7 LB/MSF spread rate.

32 92 19 13-0014 Hydro Or Air Mechanical Seeding (32 92 19 13)

32 92 19 13-0015 MSF Common Bluegrass, Hydro Or Air Seeding 86.00
Note: 4 LB/MSF spread rate.
For Spot Areas Up To 1, Add 80.85
For >1 To 4, Add 50.98
For >4 To 7.5, Add 33.94
For >7.5 To 10, Add 16.97
For >45, Deduct -6.41
For Tackifier, Add 0.79
32 92 19 13-0016 MSF Tall Fescue, Hydro Or Air Seeding 92.66
Note: 5.5 LB/MSF spread rate.
For Spot Areas Up To 1, Add 83.52
For >1 To 4, Add 52.32
For >4 To 7.5, Add 34.60
For >7.5 To 10, Add 17.30
For >45, Deduct -6.74
For Tackifier, Add 0.79

32 Exterior Improvements**32 90 Planting****32 92 Turf And Grasses**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0017	MSF		Rye, Hydro Or Air Spread.....	86.28	
			Note: 10 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	80.97	
			For >1 To 4, Add	51.04	
			For >4 To 7.5, Add	33.97	
			For >7.5 To 10, Add	16.98	
			For >45, Deduct	-6.43	
			For Tackifier, Add	0.79	
32 92 19 13-0018	MSF		Shade Mix, Hydro Or Air Seeding.....	86.00	
			Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
			For Spot Areas Up To 1, Add	80.85	
			For >1 To 4, Add	50.98	
			For >4 To 7.5, Add	33.94	
			For >7.5 To 10, Add	16.97	
			For >45, Deduct	-6.41	
			For Tackifier, Add	0.79	
32 92 19 13-0019	MSF		Turf Mix, Hydro Or Air Seeding.....	92.66	
			Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
			For Spot Areas Up To 1, Add	83.52	
			For >1 To 4, Add	52.32	
			For >4 To 7.5, Add	34.60	
			For >7.5 To 10, Add	17.30	
			For >45, Deduct	-6.74	
			For Tackifier, Add	0.79	
32 92 19 13-0020	MSF		Slope Mix, Hydro Or Air Seeding.....	89.81	
			Note: 6 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	82.38	
			For >1 To 4, Add	51.75	
			For >4 To 7.5, Add	34.32	
			For >7.5 To 10, Add	17.16	
			For >45, Deduct	-6.60	
			For Tackifier, Add	0.79	
32 92 19 13-0021	MSF		Utility Mix, Hydro Or Air Seeding.....	87.50	
			Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
			For Spot Areas Up To 1, Add	81.45	
			For >1 To 4, Add	51.28	
			For >4 To 7.5, Add	34.09	
			For >7.5 To 10, Add	17.04	
			For >45, Deduct	-6.49	
			For Tackifier, Add	0.79	
32 92 19 13-0022	MSF		Wild Flower Mix, Hydro Or Air Seeding.....	80.09	
			Note: 0.10 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	78.49	
			For >1 To 4, Add	49.80	
			For >4 To 7.5, Add	33.35	
			For >7.5 To 10, Add	16.67	
			For >45, Deduct	-6.12	
			For Tackifier, Add	0.79	
32 92 19 13-0023	MSF		Crown Vetch Mix, Hydro Or Air Seeding.....	146.90	
			Note: 4 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	105.21	
			For >1 To 4, Add	63.16	
			For >4 To 7.5, Add	40.03	
			For >7.5 To 10, Add	20.01	
			For >45, Deduct	-9.46	
			For Tackifier, Add	0.79	
32 92 19 13-0024	MSF		Athletic Mix, Hydro Or Air Seeding.....	125.99	
			Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
			For Spot Areas Up To 1, Add	96.85	
			For >1 To 4, Add	58.98	
			For >4 To 7.5, Add	37.94	
			For >7.5 To 10, Add	18.97	
			For >45, Deduct	-8.41	
			For Tackifier, Add	0.79	
32 92 19 13-0025	MSF		White Clover Mix, Hydro Or Air Seeding.....	71.06	
			Note: 7 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	74.88	
			For >1 To 4, Add	48.00	
			For >4 To 7.5, Add	32.44	
			For >7.5 To 10, Add	16.22	
			For >45, Deduct	-5.66	
			For Tackifier, Add	0.79	
32 92 19 13-0026	MSF		Ladino Clover Mix, Hydro Or Air Seeding.....	82.20	
			Note: 7 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	79.33	
			For >1 To 4, Add	50.22	
			For >4 To 7.5, Add	33.56	
			For >7.5 To 10, Add	16.78	
			For >45, Deduct	-6.22	
			For Tackifier, Add	0.79	

**Exterior Improvements 32****Planting 32 90****Turf And Grasses 32 92****32**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0027	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread.....	87.91	
			Note: 4 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	81.62	
			For >1 To 4, Add	51.37	
			For >4 To 7.5, Add	34.13	
			For >7.5 To 10, Add	17.06	
			For >45, Deduct	-6.51	
			For Tackifier, Add	0.79	
32 92 19 13-0028	MSF		2,500 LB/Acre, High Performance - Flexible Growth Medium.....	75.89	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-4.85	
32 92 19 13-0029	MSF		3,000 LB/Acre, High Performance - Flexible Growth Medium.....	87.90	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-5.50	
32 92 19 13-0030	MSF		3,500 LB/Acre, High Performance - Flexible Growth Medium.....	99.97	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-6.16	
32 92 19 13-0031	MSF		4,000 LB/Acre, High Performance - Flexible Growth Medium.....	112.08	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-6.83	
32 92 19 13-0032	MSF		4,500 LB/Acre, High Performance - Flexible Growth Medium.....	124.26	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-7.50	
32 92 19 19 Seeding By Hand (32 92 19)					
Note: Includes fertilizing, liming, mixing, seeding and initial watering. See CSI section 32 91 13 16-0017 for wheat straw mulch.					
32 92 19 19-0001			Push Spreader Or Hand Seeding (32 92 19 19)		
Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.					
32 92 19 19-0002	MSF		Common Bluegrass, Push Spreader Or Hand.....	94.16	
			Note: 4 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.41	
			For >20 To 45, Deduct	-12.15	
			For >45, Deduct	-19.60	
32 92 19 19-0003	MSF		Tall Fescue, Push Spreader Or Hand.....	79.12	
			Note: 5.5 LB/MSF spread rate.		
			For >5 To 20, Deduct	-5.65	
			For >20 To 45, Deduct	-11.03	
			For >45, Deduct	-18.10	
32 92 19 19-0004	MSF		Rye, Push Spreader Or Hand.....	79.70	
			Note: 10 LB/MSF spread rate.		
			For >5 To 20, Deduct	-5.68	
			For >20 To 45, Deduct	-11.07	
			For >45, Deduct	-18.16	
32 92 19 19-0005	MSF		Shade Mix, Push Spreader Or Hand.....	82.63	
			Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
			For >5 To 20, Deduct	-5.83	
			For >20 To 45, Deduct	-11.29	
			For >45, Deduct	-18.45	
32 92 19 19-0006	MSF		Turf Mix, Push Spreader Or Hand.....	84.73	
			Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
			For >5 To 20, Deduct	-5.93	
			For >20 To 45, Deduct	-11.45	
			For >45, Deduct	-18.66	
32 92 19 19-0007	MSF		Slope Mix, Push Spreader Or Hand.....	81.93	
			Note: 6 LB/MSF spread rate.		
			For >5 To 20, Deduct	-5.79	
			For >20 To 45, Deduct	-11.24	
			For >45, Deduct	-18.38	
32 92 19 19-0008	MSF		Utility Mix, Push Spreader Or Hand.....	78.43	
			Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
			For >5 To 20, Deduct	-5.62	
			For >20 To 45, Deduct	-10.97	
			For >45, Deduct	-18.03	
32 92 19 19-0009	MSF		Wild Flower Mix, Push Spreader Or Hand.....	71.83	
			Note: 0.10 LB/MSF spread rate.		
			For >5 To 20, Deduct	-5.29	
			For >20 To 45, Deduct	-10.48	
			For >45, Deduct	-17.37	
32 92 19 19-0010	MSF		Crown Vetch Mix, Push Spreader Or Hand.....	124.01	
			Note: 4 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.90	
			For >20 To 45, Deduct	-14.39	
			For >45, Deduct	-22.59	
32 92 19 19-0011	MSF		Athletic Mix, Push Spreader Or Hand.....	93.15	
			Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
			For >5 To 20, Deduct	-6.36	
			For >20 To 45, Deduct	-12.08	
			For >45, Deduct	-19.50	
32 92 19 19-0012	MSF		White Clover Mix, Push Spreader Or Hand.....	71.76	
			Note: 7 LB/MSF spread rate.		
			For >5 To 20, Deduct	-5.29	
			For >20 To 45, Deduct	-10.47	
			For >45, Deduct	-17.36	

32 Exterior Improvements**32 90 Planting****32 92 Turf And Grasses**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0013	MSF	Ladino Clover Mix, Push Spreader Or Hand..... Note: 7 LB/MSF spread rate.	74.56	
		For >5 To 20, Deduct	-5.43	
		For >20 To 45, Deduct	-10.68	
		For >45, Deduct	-17.64	
32 92 19 19-0014	MSF	100% Kentucky Bluegrass, Push Spreader Or Hand..... Note: 3.3 LB/MSF spread rate.	95.97	
		For >5 To 20, Deduct	-6.50	
		For >20 To 45, Deduct	-12.29	
		For >45, Deduct	-19.78	
32 92 19 19-0015	MSF	70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand..... Note: 3.3 LB/MSF spread rate.	90.74	
		For >5 To 20, Deduct	-6.23	
		For >20 To 45, Deduct	-11.90	
		For >45, Deduct	-19.26	
32 92 19 19-0016	MSF	50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand..... Note: 3.3 LB/MSF spread rate.	86.93	
		For >5 To 20, Deduct	-6.04	
		For >20 To 45, Deduct	-11.61	
		For >45, Deduct	-18.88	
32 92 19 19-0017	MSF	50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand..... Note: 4.4 LB/MSF spread rate.	94.54	
		For >5 To 20, Deduct	-6.42	
		For >20 To 45, Deduct	-12.18	
		For >45, Deduct	-19.64	
32 92 19 19-0018	MSF	60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand..... Note: 3.3 LB/MSF spread rate.	88.83	
		For >5 To 20, Deduct	-6.14	
		For >20 To 45, Deduct	-11.75	
		For >45, Deduct	-19.07	
32 92 19 19-0019	MSF	40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand..... Note: 3.3 LB/MSF spread rate.	84.73	
		For >5 To 20, Deduct	-5.93	
		For >20 To 45, Deduct	-11.45	
		For >45, Deduct	-18.66	

32 92 23 Sodding^(32 92)

Note: Includes raking preparation, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering.

32 92 23 00-0001 Bermuda Sod^(32 92 23)

32 92 23 00-0002	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Level Ground.....	1,468.75	
32 92 23 00-0003	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Level Ground.....	1,202.77	
32 92 23 00-0004	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Level Ground.....	1,015.29	
32 92 23 00-0005	MSF	>8,000 SF, Bermuda Sod, Installed On Level Ground.....	870.45	
32 92 23 00-0006	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,734.11	
32 92 23 00-0007	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,428.93	
32 92 23 00-0008	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,171.31	
32 92 23 00-0009	MSF	>8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,003.12	

32 92 23 00-0010 Zoysia Sod^(32 92 23)

32 92 23 00-0011	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Level Ground.....	2,283.51	
32 92 23 00-0012	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Level Ground.....	1,813.84	
32 92 23 00-0013	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,524.52	
32 92 23 00-0014	MSF	>8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,277.83	
32 92 23 00-0015	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,548.87	
32 92 23 00-0016	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,040.00	
32 92 23 00-0017	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,680.54	
32 92 23 00-0018	MSF	>8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,410.50	

32 92 23 00-0019 Tall Fescue Sod^(32 92 23)

32 92 23 00-0020	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground..... For Hybrid Fescue "Marathon", Add	1,777.44 124.67	
32 92 23 00-0021	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground..... For Hybrid Fescue "Marathon", Add	1,434.29 93.68	
32 92 23 00-0022	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground..... For Hybrid Fescue "Marathon", Add	1,208.22 78.18	
32 92 23 00-0023	MSF	>8,000 SF, Tall Fescue Sod, Installed On Level Ground..... For Hybrid Fescue "Marathon", Add	1,024.80 62.68	
32 92 23 00-0024	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes..... For Hybrid Fescue "Marathon", Add	2,042.80 124.67	
32 92 23 00-0025	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes..... For Hybrid Fescue "Marathon", Add	1,660.45 93.68	
32 92 23 00-0026	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes..... For Hybrid Fescue "Marathon", Add	1,364.24 78.18	
32 92 23 00-0027	MSF	>8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes..... For Hybrid Fescue "Marathon", Add	1,157.47 62.68	



Exterior Improvements			32
Planting			32 90
Turf And Grasses			32 92

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 23 00-0028			Centipede Sod (32 92 23)		
32 92 23 00-0029	MSF		Up To 1,000 SF, Centipede Sod, Installed On Level Ground	1,968.55	
32 92 23 00-0030	MSF		>1,000 To 4,000 SF, Centipede Sod, Installed On Level Ground	1,577.62	
32 92 23 00-0031	MSF		>4,000 To 8,000 SF, Centipede Sod, Installed On Level Ground	1,327.67	
32 92 23 00-0032	MSF		>8,000 SF, Centipede Sod, Installed On Level Ground	1,120.35	
32 92 23 00-0033	MSF		Up To 1,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	2,233.91	
32 92 23 00-0034	MSF		>1,000 To 4,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,803.78	
32 92 23 00-0035	MSF		>4,000 To 8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,483.69	
32 92 23 00-0036	MSF		>8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,253.02	
32 92 23 00-0037			Kentucky Blue Grass Sod (32 92 23)		
32 92 23 00-0038	MSF		Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,837.43	
32 92 23 00-0039	MSF		>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,479.28	
32 92 23 00-0040	MSF		>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,245.72	
32 92 23 00-0041	MSF		>8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,054.79	
32 92 23 00-0042	MSF		Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	2,102.79	
32 92 23 00-0043	MSF		>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,705.44	
32 92 23 00-0044	MSF		>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,401.74	
32 92 23 00-0045	MSF		>8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,187.46	
32 92 23 00-0046			Ballfield Mix 2A Sod 10% Bermuda Shorts, 10% Barclay, 80% Turfstar (32 92 23)		
32 92 23 00-0047	MSF		Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,690.88	
32 92 23 00-0048	MSF		>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,369.37	
32 92 23 00-0049	MSF		>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,154.12	
32 92 23 00-0050	MSF		>8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	981.52	
32 92 23 00-0051	MSF		Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,956.24	
32 92 23 00-0052	MSF		>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,595.53	
32 92 23 00-0053	MSF		>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,310.14	
32 92 23 00-0054	MSF		>8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,114.19	
32 92 23 00-0055			GN-1 Sod (32 92 23)		
32 92 23 00-0056	MSF		Up To 1,000 SF, GN-1 Sod, Installed On Level Ground	2,267.58	
32 92 23 00-0057	MSF		>1,000 To 4,000 SF, GN-1 Sod, Installed On Level Ground	1,801.89	
32 92 23 00-0058	MSF		>4,000 To 8,000 SF, GN-1 Sod, Installed On Level Ground	1,514.56	
32 92 23 00-0059	MSF		>8,000 SF, GN-1 Sod, Installed On Level Ground	1,269.87	
32 92 23 00-0060	MSF		Up To 1,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	2,532.94	
32 92 23 00-0061	MSF		>1,000 To 4,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	2,028.05	
32 92 23 00-0062	MSF		>4,000 To 8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	1,670.58	
32 92 23 00-0063	MSF		>8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	1,402.54	
32 92 23 00-0064			Tifgreen Bermuda Sod (32 92 23)		
32 92 23 00-0065	MSF		Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	2,393.60	
32 92 23 00-0066	MSF		>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	1,896.40	
32 92 23 00-0067	MSF		>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	1,593.32	
32 92 23 00-0068	MSF		>8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	1,332.88	
32 92 23 00-0069	MSF		Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	2,658.96	
32 92 23 00-0070	MSF		>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	2,122.56	
32 92 23 00-0071	MSF		>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,749.34	
32 92 23 00-0072	MSF		>8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,465.55	
32 93			Plants (32 93)		
32 93 13			Ground Covers (32 93)		
Note: Materials only. See CSI section 32 93 53 00-0057 for installation and planting of ground cover.					
32 93 13 00-0001			Ornamental Grasses (32 93 13)		
32 93 13 00-0002	EA		1 Gallon Cortaderia selloana - Pampas Grass	8.91	
32 93 13 00-0003	EA		2 Gallon Cortaderia selloana - Pampas Grass	10.86	
32 93 13 00-0004	EA		3 Gallon Cortaderia selloana - Pampas Grass	12.81	
32 93 13 00-0005	EA		10 Gallon Cortaderia selloana - Pampas Grass	49.18	
32 93 13 00-0006	EA		1 Quart Imperata cylindrica - Japanese Blood Grass	5.48	
32 93 13 00-0007	EA		1 Gallon Imperata cylindrica - Japanese Blood Grass	7.89	
32 93 13 00-0008	EA		2 Gallon Imperata cylindrica - Japanese Blood Grass	10.86	
32 93 13 00-0009	EA		1 Quart Koeleria glauca - Blue Hair Grass	3.90	
32 93 13 00-0010	EA		1 Gallon Koeleria glauca - Blue Hair Grass	6.96	
32 93 13 00-0011	EA		3 Gallon Koeleria glauca - Blue Hair Grass	12.81	
32 93 13 00-0012	EA		1 Gallon Miscanthus sinensis 'Gracillimus' - Maiden Grass	10.86	
32 93 13 00-0013	EA		3 Gallon Miscanthus sinensis 'Gracillimus' - Maiden Grass	18.74	
32 93 13 00-0014	EA		5 Gallon Miscanthus sinensis 'Gracillimus' - Maiden Grass	24.68	
32 93 13 00-0015	EA		1 Gallon Miscanthus sinensis 'Zebrinus' - Zebra Grass	10.86	
32 93 13 00-0016	EA		3 Gallon Miscanthus sinensis 'Zebrinus' - Zebra Grass	18.74	
32 93 13 00-0017	EA		5 Gallon Miscanthus sinensis 'Zebrinus' - Zebra Grass	24.68	
32 93 13 00-0018	EA		1 Quart Pennisetum setaceum - Fountain Grass	4.36	
32 93 13 00-0019	EA		1 Gallon Pennisetum setaceum - Fountain Grass	6.96	
32 93 13 00-0020	EA		3 Gallon Pennisetum setaceum - Fountain Grass	12.81	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0021 EA 1 Gallon Saccharum ravennae - Ravenna Grass.....	8.91	
32 93 13 00-0022 EA 3 Gallon Saccharum ravennae - Ravenna Grass.....	12.81	
32 93 13 00-0023 EA 7 Gallon Saccharum ravennae - Ravenna Grass.....	24.68	
32 93 13 00-0024 EA 1 Gallon Spartina pectinata - Variegated Cord Grass.....	7.89	
32 93 13 00-0025 EA 2 Gallon Spartina pectinata - Variegated Cord Grass.....	12.81	
32 93 13 00-0026 EA 1 Quart Stipa gigantea - Giant Feather Grass.....	9.84	
32 93 13 00-0027 EA 1 Gallon Stipa gigantea - Giant Feather Grass.....	14.85	
32 93 13 00-0028 Ground Covers (32 93 13)		
32 93 13 00-0029 EA 1 Gallon Agave Attenuata - Century Plant.....	6.77	
32 93 13 00-0030 EA 5 Gallon Agave Attenuata - Century Plant.....	18.25	
32 93 13 00-0031 EA 15 Gallon Agave Attenuata - Century Plant.....	60.34	
32 93 13 00-0032 EA 1 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....	5.77	
32 93 13 00-0033 EA 5 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....	16.07	
32 93 13 00-0034 EA 1 Gallon Ceanothus 'Yankee Point' - Wild Lilac.....	5.77	
32 93 13 00-0035 EA 5 Gallon Ceanothus 'Yankee Point' - Wild Lilac.....	15.01	
32 93 13 00-0036 EA 1 Gallon Dietes Vegata - Fortnight Lily.....	5.06	
32 93 13 00-0037 EA 5 Gallon Dietes Vegata - Fortnight Lily.....	12.48	
32 93 13 00-0038 EA 1 Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....	9.41	
32 93 13 00-0039 EA 5 Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....	24.71	
32 93 13 00-0040 EA 4" Pot Miscanthus 'Morning Light' - NCN.....	7.05	
32 93 13 00-0041 EA 20 Count Flat Miscanthus 'Morning Light' - NCN.....	104.03	
32 93 13 00-0042 EA 1 Gallon Nassella Tenuissima - Mexican Feather Grass.....	9.41	
32 93 13 00-0043 EA 1 Gallon Trachelospermum Jasminoides - Star Jasmine.....	5.11	
32 93 13 00-0044 EA 5 Gallon Trachelospermum Jasminoides - Star Jasmine.....	12.81	
32 93 13 00-0045 EA 1 Gallon Westringia Fruticosa - Coast Rosemary.....	5.06	
32 93 13 00-0046 EA 5 Gallon Westringia Fruticosa - Coast Rosemary.....	12.48	
32 93 13 00-0047 EA 15 Gallon Westringia Fruticosa - Coast Rosemary.....	51.21	
32 93 13 00-0048 EA 1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge.....	9.84	
32 93 13 00-0049 EA 1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge.....	12.81	
32 93 13 00-0050 EA 2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper.....	16.21	
32 93 13 00-0051 EA 1 Quart Waldsteinia ternata - Barren Strawberry.....	2.78	
32 93 13 00-0052 EA 1 Gallon Waldsteinia ternata - Barren Strawberry.....	6.68	
32 93 13 00-0053 EA 1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	9.09	
32 93 13 00-0054 EA 2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	17.26	
32 93 13 00-0055 EA 5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	30.44	
32 93 13 00-0056 EA 1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope.....	3.11	
32 93 13 00-0057 EA 1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	5.75	
32 93 13 00-0058 EA 5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	20.23	
32 93 13 00-0059 EA 1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper.....	7.55	
32 93 13 00-0060 EA 4" Pot Parthenocissus tricuspidata - Boston Ivy.....	4.64	
32 93 13 00-0061 EA 1 Gallon Parthenocissus tricuspidata - Boston Ivy.....	10.58	
32 93 13 00-0062 EA 5 Gallon Parthenocissus tricuspidata - Boston Ivy.....	28.95	
32 93 13 00-0063 EA 3 Gallon Bougainvillea spectabilis - Bougainvillea.....	9.73	
32 93 13 00-0064 EA 1 Quart Iberis sempervirens - Candytuft.....	2.78	
32 93 13 00-0065 EA 1 Gallon Iberis sempervirens - Candytuft.....	6.68	
32 93 13 00-0066 EA 1 Gallon Gelsemium sempervirens - Carolina Jessamine.....	6.68	
32 93 13 00-0067 EA 5 Gallon Gelsemium sempervirens - Carolina Jessamine.....	24.13	
32 93 13 00-0068 EA 3" Pot Ajuga reptans - Carpet Bugle.....	1.67	
32 93 13 00-0069 EA 1 Quart Ajuga reptans - Carpet Bugle.....	2.78	
32 93 13 00-0070 EA 1 Gallon Ajuga reptans - Carpet Bugle.....	6.68	
32 93 13 00-0071 EA 24 Plant Flat Ajuga reptans - Carpet Bugle.....	28.77	
32 93 13 00-0072 EA 1 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	6.68	
32 93 13 00-0073 EA 5 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	28.95	
32 93 13 00-0074 EA 1 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	8.72	
32 93 13 00-0075 EA 3 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	19.30	
32 93 13 00-0076 EA 5 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	28.95	
32 93 13 00-0077 EA 1 Gallon Ranunculaceae - Clematis Varieties.....	9.59	
32 93 13 00-0078 EA 2 Gallon Ranunculaceae - Clematis Varieties.....	17.74	
32 93 13 00-0079 EA 1 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	12.06	
32 93 13 00-0080 EA 2 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	22.64	
32 93 13 00-0081 EA 5 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	37.12	
32 93 13 00-0082 EA 4" Pot Lantana camera - Common Lantana.....	1.67	
32 93 13 00-0083 EA 1 Gallon Lantana camera - Common Lantana.....	4.83	
32 93 13 00-0084 EA 1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	5.75	
32 93 13 00-0085 EA 5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	18.93	
32 93 13 00-0086 EA 2 Quart Lysimachia nummularia - Creeping Jenny.....	2.78	
32 93 13 00-0087 EA 1 Gallon Lysimachia nummularia - Creeping Jenny.....	5.38	
32 93 13 00-0088 EA 2 Quart Liriope spicata - Creeping Lilytuft.....	4.83	
32 93 13 00-0089 EA 1 Gallon Liriope spicata - Creeping Lilytuft.....	8.72	
32 93 13 00-0090 EA 5 Gallon Liriope spicata - Creeping Lilytuft.....	18.37	
32 93 13 00-0091 EA Bare Root Liriope spicata - Creeping Liriope.....	1.22	
32 93 13 00-0092 EA 3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	1.67	
32 93 13 00-0093 EA 1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	6.68	
32 93 13 00-0094 EA 2-1/4" Pot Securigera varia - Crown Vetch.....	1.11	
32 93 13 00-0095 EA 50 Plant Flat Securigera varia - Crown Vetch.....	37.68	
32 93 13 00-0096 EA 1 Quart Senecio cineraria - Dusty Miller.....	2.78	
32 93 13 00-0097 EA 1 Gallon Senecio cineraria - Dusty Miller.....	6.68	
32 93 13 00-0098 EA 2 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	23.20	
32 93 13 00-0099 EA 5 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	42.50	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0100 EA 1 Gallon Ilex cornuta - Dwarf Holly	5.04	
32 93 13 00-0101 EA 3 Gallon Ilex cornuta - Dwarf Holly	10.80	
32 93 13 00-0102 EA 3 Gallon Raphiolepis umbellata 'Minor' - Dwarf Indian Hawthorn	10.80	
32 93 13 00-0103 EA 1 Gallon Tradescantia spathacea - Dwarf Oyster Plant	3.60	
32 93 13 00-0104 EA 2" To 3" Pot Hedera helix - English Ivy	1.67	
32 93 13 00-0105 EA 12" To 15" Runners Hedera helix - English Ivy	2.78	
32 93 13 00-0106 EA 1 Gallon Hedera helix - English Ivy	6.68	
32 93 13 00-0107 EA 50 Plant Flat Hedera helix - English Ivy	38.60	
32 93 13 00-0108 EA 4" Pot Lavandula angustifolia - English Lavender	2.41	
32 93 13 00-0109 EA 1 Quart Lavandula angustifolia - English Lavender	4.64	
32 93 13 00-0110 EA 1 Gallon Lavandula angustifolia - English Lavender	7.61	
32 93 13 00-0111 EA 1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	7.24	
32 93 13 00-0112 EA 2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	14.48	
32 93 13 00-0113 EA 1 Quart Arundo donax - Giant Reed	8.91	
32 93 13 00-0114 EA 1 Gallon Arundo donax - Giant Reed	12.81	
32 93 13 00-0115 EA 1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	7.61	
32 93 13 00-0116 EA 2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	14.48	
32 93 13 00-0117 EA 1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	9.84	
32 93 13 00-0118 EA 1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	14.85	
32 93 13 00-0119 EA 3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	1.67	
32 93 13 00-0120 EA 1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	7.61	
32 93 13 00-0121 EA 2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	14.48	
32 93 13 00-0122 EA 1 Gallon Hardenbergia violacea - Happy Wanderer	6.68	
32 93 13 00-0123 EA 5 Gallon Hardenbergia violacea - Happy Wanderer	22.27	
32 93 13 00-0124 EA 3 Gallon Hibiscus, Assorted Colors	8.70	
32 93 13 00-0125 EA 1 Gallon Acorus gramineus - Japanese Sweet Flag	6.96	
32 93 13 00-0126 EA 1 Gallon Jasminum volubile - Wax Jasmine	3.51	
32 93 13 00-0127 EA 1 Gallon Jasminum volubile - Wax Jasmine	8.70	
32 93 13 00-0128 EA 1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	4.37	
32 93 13 00-0129 EA 3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	9.73	
32 93 13 00-0130 EA 1 Gallon Cissus antarctica - Kangaroo Vine	5.38	
32 93 13 00-0131 EA 5 Gallon Cissus antarctica - Kangaroo Vine	16.89	
32 93 13 00-0132 EA 1 Quart Stachys byzantina - Lamb's Ear	2.78	
32 93 13 00-0133 EA 1 Quart Stachys byzantina - Lamb's Ear	6.68	
32 93 13 00-0134 EA 1 Gallon Lantana spp. Various Colors	3.94	
32 93 13 00-0135 EA 1 Gallon Lantana sellowiana - Trailing Lantana	2.59	
32 93 13 00-0136 EA 1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	5.38	
32 93 13 00-0137 EA 5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	19.30	
32 93 13 00-0138 EA 1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum	3.94	
32 93 13 00-0139 EA 1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	4.97	
32 93 13 00-0140 EA 3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	7.95	
32 93 13 00-0141 EA 1 Quart Moss Phlox, Creeping Phlox	2.78	
32 93 13 00-0142 EA 1 Gallon Moss Phlox, Creeping Phlox	6.68	
32 93 13 00-0143 EA 1 Gallon Nephrolepis exaltata - Common Boston Fern	3.51	
32 93 13 00-0144 EA 4" Pot Ophiopogon Japonicus - Mondo grass	1.67	
32 93 13 00-0145 EA 1 Gallon Ophiopogon Japonicus - Mondo grass	6.68	
32 93 13 00-0146 EA 5 Gallon Ophiopogon Japonicus - Mondo grass	15.40	
32 93 13 00-0147 EA 2' To 3' High Oregon Holly-Grape	7.71	
32 93 13 00-0148 EA 1 Gallon Pachysandra terminalis - Pachysandra	10.05	
32 93 13 00-0149 EA 2-1/4" Pot Vinca minor - Periwinkle	0.93	
32 93 13 00-0150 EA 4" Pot Vinca minor - Periwinkle	2.78	
32 93 13 00-0151 EA Bare Root Vinca minor - Periwinkle	0.93	
32 93 13 00-0152 EA 1 Quart Nepeta mussinii - Persian Catmint	2.78	
32 93 13 00-0153 EA 1 Gallon Nepeta mussinii - Persian Catmint	5.75	
32 93 13 00-0154 EA 1 Gallon Coprosma kirkii - Prostrate Coprosma	4.64	
32 93 13 00-0155 EA 5 Gallon Coprosma kirkii - Prostrate Coprosma	16.89	
32 93 13 00-0156 EA 1 Gallon Juniperus Horizontalis - Prostrate Juniper	7.61	
32 93 13 00-0157 EA 3 Gallon Juniperus Horizontalis - Prostrate Juniper	16.33	
32 93 13 00-0158 EA 5 Gallon Juniperus Horizontalis - Prostrate Juniper	24.13	
32 93 13 00-0159 EA 1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	6.63	
32 93 13 00-0160 EA 1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	17.17	
32 93 13 00-0161 EA 24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	28.77	
32 93 13 00-0162 EA 1 Gallon Tradescantia spathacea - Rhoeco Discolor 'Dwarf'	3.51	
32 93 13 00-0163 EA 1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	3.90	
32 93 13 00-0164 EA 1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	6.96	
32 93 13 00-0165 EA 2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	10.86	
32 93 13 00-0166 EA 1 Gallon Hymenocallis latifolia - Spider Lily	4.32	
32 93 13 00-0167 EA 3 Gallon Hymenocallis latifolia - Spider Lily	11.52	
32 93 13 00-0168 EA 1 Quart Hypericum perforatum - St. John's Wort	2.78	
32 93 13 00-0169 EA 1 Gallon Hypericum perforatum - St. John's Wort	6.68	
32 93 13 00-0170 EA 5 Gallon Hypericum perforatum - St. John's Wort	17.26	
32 93 13 00-0171 EA 24" To 30" High Viburnum awabuki - Sweet Viburnum	23.49	
32 93 13 00-0172 EA 1 Gallon Campsis radicans - Trumpet Creeper	10.21	
32 93 13 00-0173 EA 2 Gallon Campsis radicans - Trumpet Creeper	15.40	
32 93 13 00-0174 EA 5 Gallon Campsis radicans - Trumpet Creeper	37.12	
32 93 13 00-0175 EA 2-1/4" Pot Vinca major - Variegated Greater Periwinkle	0.93	
32 93 13 00-0176 EA 4" Pot Vinca major - Variegated Greater Periwinkle	2.78	
32 93 13 00-0177 EA Bare Root Vinca major - Variegated Greater Periwinkle	0.93	
32 93 13 00-0178 EA 1 Quart Carex hachijoensis - Variegated Japanese Sedge	5.01	
32 93 13 00-0179 EA 1 Gallon Carex hachijoensis - Variegated Japanese Sedge	6.96	
32 93 13 00-0180 EA 2 Gallon Carex hachijoensis - Variegated Japanese Sedge	10.86	

32 Exterior Improvements**32 90 Planting****32 93 Plants**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

32 93 13 00-0181	EA	1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf.....	7.61
32 93 13 00-0182	EA	2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena.....	3.53
32 93 13 00-0183	EA	1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena.....	5.38
32 93 13 00-0184	EA	48 Plant Flat Vinca minor - Lesser Periwinkle.....	33.08
32 93 13 00-0185	EA	3" Pot Parthenocissus quinquefolia - Virginia Creeper.....	1.67
32 93 13 00-0186	EA	1 Gallon Parthenocissus quinquefolia - Virginia Creeper.....	8.72
32 93 13 00-0187	EA	1 Gallon Jasminum polyanthum - Winter Jasmine.....	6.68
32 93 13 00-0188	EA	2 Gallon Jasminum polyanthum - Winter Jasmine.....	13.36
32 93 13 00-0189	EA	5 Gallon Jasminum polyanthum - Winter Jasmine.....	23.20
32 93 13 00-0190	EA	1 Gallon Cistaceae - Winkleaf Rock Rose.....	5.38
32 93 13 00-0191	EA	5 Gallon Cistaceae - Winkleaf Rock Rose.....	18.37
32 93 13 00-0192	EA	Flat Hedera canariensis - Algerian Ivy.....	13.75
32 93 13 00-0193	EA	2-1/2" Pot Hedera canariensis - Algerian Ivy.....	3.63
32 93 13 00-0194	EA	Flat Gazania 'Copper King'.....	11.27
32 93 13 00-0195	EA	1 Gallon Gazania 'Copper King'.....	3.85
32 93 13 00-0196	EA	Flat Myoporum parvifolium - Myoporum.....	13.75
32 93 13 00-0197	EA	1 Gallon Myoporum parvifolium - Myoporum.....	3.85
32 93 13 00-0198	EA	5 Gallon Myoporum parvifolium - Myoporum.....	11.00
32 93 13 00-0199	EA	1 Gallon Lantana montevidensis - Purple Lantana.....	3.85
32 93 13 00-0200	EA	5 Gallon Lantana montevidensis - Purple Lantana.....	11.00
32 93 13 00-0201	EA	Flat Carpobrotus - Ice Plant.....	10.45
32 93 13 00-0202	EA	1 Gallon Carpobrotus - Ice Plant.....	4.40

32 93 23 Plants And Bulbs (32 93)

Note: Materials only. See CSI section 32 93 53 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)

32 93 23 00-0002	EA	2 Quart Assorted Daylilies.....	5.38
32 93 23 00-0003	EA	1 Gallon Assorted Daylilies.....	7.61
32 93 23 00-0004	EA	2 Gallon Assorted Daylilies.....	12.62
32 93 23 00-0005	EA	1 Quart Azure Penstemon.....	2.78
32 93 23 00-0006	EA	1 Gallon Azure Penstemon.....	6.96
32 93 23 00-0007	EA	1 Quart Balloon Flower.....	2.78
32 93 23 00-0008	EA	1 Gallon Balloon Flower.....	6.96
32 93 23 00-0009	EA	1 Quart Black-eyed Susan.....	2.78
32 93 23 00-0010	EA	1 Gallon Black-eyed Susan.....	6.96
32 93 23 00-0011	EA	2 Gallon Black-eyed Susan.....	9.00
32 93 23 00-0012	EA	1 Quart Blackberry Lily.....	2.78
32 93 23 00-0013	EA	1 Gallon Blackberry Lily.....	6.96
32 93 23 00-0014	EA	1 Quart Blank Flower.....	2.78
32 93 23 00-0015	EA	1 Gallon Blank Flower.....	6.40
32 93 23 00-0016	EA	2 Gallon Blank Flower.....	9.00
32 93 23 00-0017	EA	1 Quart Blazing Star, Gayfeather.....	2.78
32 93 23 00-0018	EA	1 Gallon Blazing Star, Gayfeather.....	6.96
32 93 23 00-0019	EA	1 Quart Bloodred Geranium.....	4.73
32 93 23 00-0020	EA	1 Gallon Bloodred Geranium.....	7.98
32 93 23 00-0021	EA	1 Quart Blue Plumbago.....	2.78
32 93 23 00-0022	EA	1 Gallon Blue Plumbago.....	6.96
32 93 23 00-0023	EA	1 Quart Blue Star.....	5.01
32 93 23 00-0024	EA	1 Gallon Blue Star.....	7.98
32 93 23 00-0025	EA	1 Quart Cardinal Flower.....	2.78
32 93 23 00-0026	EA	1 Gallon Cardinal Flower.....	6.96
32 93 23 00-0027	EA	4" Pot Columbine.....	1.67
32 93 23 00-0028	EA	1 Quart Columbine.....	2.78
32 93 23 00-0029	EA	1 Gallon Columbine.....	6.96
32 93 23 00-0030	EA	1 Quart Common Globeflower.....	2.78
32 93 23 00-0031	EA	1 Gallon Common Globeflower.....	6.96
32 93 23 00-0032	EA	1 Quart Cottage Pink, Scotch Pink.....	2.78
32 93 23 00-0033	EA	1 Quart Cottage Pink, Scotch Pink.....	6.96
32 93 23 00-0034	EA	1 Gallon Astilbe 'Deutschland'.....	10.02
32 93 23 00-0035	EA	1 Quart Diploid.....	3.53
32 93 23 00-0036	EA	1 Gallon Diploid.....	7.98
32 93 23 00-0037	EA	3 Gallon Diploid.....	13.73
32 93 23 00-0038	EA	4" Pot Dune Sunflower.....	3.97
32 93 23 00-0039	EA	1 Quart Evans Begonia.....	5.01
32 93 23 00-0040	EA	1 Gallon Evans Begonia.....	9.00
32 93 23 00-0041	EA	1 Quart False Dragonhead.....	2.78
32 93 23 00-0042	EA	1 Gallon False Dragonhead.....	6.96
32 93 23 00-0043	EA	1 Quart False Spirea.....	2.78
32 93 23 00-0044	EA	1 Gallon False Spirea.....	9.00
32 93 23 00-0045	EA	3 Gallon False Spirea.....	12.44
32 93 23 00-0046	EA	2 Quart False Sunflower.....	4.45
32 93 23 00-0047	EA	1 Gallon False Sunflower.....	6.96
32 93 23 00-0048	EA	2 Gallon False Sunflower.....	9.00
32 93 23 00-0049	EA	1 Gallon Foxglove.....	6.40
32 93 23 00-0050	EA	2 Gallon Foxglove.....	9.00
32 93 23 00-0051	EA	3 Gallon Foxglove.....	12.99
32 93 23 00-0052	EA	1 Gallon Francee Hostas.....	11.27
32 93 23 00-0053	EA	1 Quart Garden Phlox.....	2.78
32 93 23 00-0054	EA	1 Gallon Garden Phlox.....	6.96
32 93 23 00-0055	EA	2 Quart Golden Groundsel.....	5.94



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0056	EA		2 Gallon Golden Groundsel	11.97	
32 93 23 00-0057	EA		1 Quart Golden Star	2.78	
32 93 23 00-0058	EA		1 Gallon Golden Star	6.96	
32 93 23 00-0059	EA		1 Quart Goldenrod	2.78	
32 93 23 00-0060	EA		1 Gallon Goldenrod	6.96	
32 93 23 00-0061	EA		1 Gallon Happy Returns Daylillies	12.96	
32 93 23 00-0062	EA		4" Pot Hardy Aster, Michaelmas Daisy	1.67	
32 93 23 00-0063	EA		1 Quart Hardy Aster, Michaelmas Daisy	2.78	
32 93 23 00-0064	EA		1 Gallon Hardy Aster, Michaelmas Daisy	6.96	
32 93 23 00-0065	EA		1 Quart Hardy Chrysanthemum	2.41	
32 93 23 00-0066	EA		6" To 8" Pot Hardy Chrysanthemum	3.99	
32 93 23 00-0067	EA		1 Gallon Hardy Chrysanthemum	6.40	
32 93 23 00-0068	EA		1 Gallon Herbaceous Peony	9.93	
32 93 23 00-0069	EA		2 Gallon Herbaceous Peony	15.87	
32 93 23 00-0070	EA		3 Gallon Herbaceous Peony	20.88	
32 93 23 00-0071	EA		4" Pot Japanese Anemone	1.67	
32 93 23 00-0072	EA		1 Quart Japanese Anemone	5.01	
32 93 23 00-0073	EA		2 Gallon Japanese Anemone	9.00	
32 93 23 00-0074	EA		2" Pot Japanese Spurge	0.99	
32 93 23 00-0075	EA		6" Pot Japanese Spurge	1.48	
32 93 23 00-0076	EA		1 Gallon Japanese Spurge	6.39	
32 93 23 00-0077	EA		1 Quart Oriental Poppy	3.99	
32 93 23 00-0078	EA		1 Gallon Oriental Poppy	7.98	
32 93 23 00-0079	EA		48 Plant Flat Pachysandra terminalis	33.08	
32 93 23 00-0080	EA		1 Gallon Pacific Coast Iris	5.48	
32 93 23 00-0081	EA		3 Gallon Pacific Coast Iris	10.39	
32 93 23 00-0082	EA		1 Gallon Palace Purple Coral Bells	10.54	
32 93 23 00-0083	EA		4" Pot Perennial Salvia	1.67	
32 93 23 00-0084	EA		1 Quart Perennial Salvia	2.78	
32 93 23 00-0085	EA		1 Gallon Perennial Salvia	6.96	
32 93 23 00-0086	EA		1 Quart Pincushion Flower	2.78	
32 93 23 00-0087	EA		1 Gallon Pincushion Flower	6.96	
32 93 23 00-0088	EA		2 Quart Plantain Lily	5.38	
32 93 23 00-0089	EA		1 Gallon Plantain Lily	7.61	
32 93 23 00-0090	EA		2 Gallon Plantain Lily	12.62	
32 93 23 00-0091	EA		3 Gallon Plantain Lily	23.85	
32 93 23 00-0092	EA		2 Quart Purple Coneflower	5.01	
32 93 23 00-0093	EA		1 Gallon Purple Coneflower	6.96	
32 93 23 00-0094	EA		2 Gallon Purple Coneflower	9.00	
32 93 23 00-0095	EA		1 Quart Purple Loosestrife	2.78	
32 93 23 00-0096	EA		1 Gallon Purple Loosestrife	6.96	
32 93 23 00-0097	EA		1 Quart Rose Mallow	5.48	
32 93 23 00-0098	EA		2 Gallon Rose Mallow	9.93	
32 93 23 00-0099	EA		3 Gallon Rose Mallow	16.98	
32 93 23 00-0100	EA		1 Gallon Autumn Joy Sedum	10.61	
32 93 23 00-0101	EA		1 Quart Siberian Iris	4.73	
32 93 23 00-0102	EA		2 Gallon Siberian Iris	9.00	
32 93 23 00-0103	EA		3 Gallon Siberian Iris	12.44	
32 93 23 00-0104	EA		1 Quart Speedwell	2.78	
32 93 23 00-0105	EA		1 Gallon Speedwell	6.96	
32 93 23 00-0106	EA		1 Quart Tetraploid	6.96	
32 93 23 00-0107	EA		1 Gallon Tetraploid	12.99	
32 93 23 00-0108	EA		3 Gallon Tetraploid	17.73	
32 93 23 00-0109	EA		1 Quart Threadleaf Coreopsis	2.78	
32 93 23 00-0110	EA		1 Gallon Threadleaf Coreopsis	6.96	
32 93 23 00-0111	EA		1 Quart Torch Lily	2.78	
32 93 23 00-0112	EA		1 Quart Bluebeard	5.01	
32 93 23 00-0113	EA		1 Gallon Bluebeard	7.42	
32 93 23 00-0114	EA		2 Gallon Bluebeard	10.86	
32 93 23 00-0115 Annuals (32 93 23)					
32 93 23 00-0116	EA		2-1/2" Pot Annual Flowers	1.29	
32 93 23 00-0117	EA		3" Pot Annual Flowers	1.75	
32 93 23 00-0118	EA		4" Pot Annual Flowers	3.74	
32 93 23 00-0119	EA		5-1/2" Pot Annual Flowers	4.97	
32 93 23 00-0120	EA		6" Pot Annual Flowers	9.83	
32 93 23 00-0121	EA		8" Pot Annual Flowers	16.39	
32 93 23 00-0122	EA		36 Plant Flat Annual Flowers	21.46	
32 93 23 00-0123	EA		48 Plant Flat Annual Flowers	24.34	
32 93 23 00-0124 Bulbs (32 93 23)					
32 93 23 00-0125	EA		Top Size Allium giganteum - Giant Ornamental Onion	4.49	
32 93 23 00-0126	EA		Top Size Allium sphaerocephalum - Drumstick Ornamental Onion	0.26	
32 93 23 00-0127	EA		Top Size Crocus Hybrid	0.29	
32 93 23 00-0128	EA		Top Size Eranthis hyemalis - Winter Aconite	0.38	
32 93 23 00-0129	EA		Top Size Galanthus nivalis - Snowdrops	0.48	
32 93 23 00-0130	EA		Top Size Iris reticulata cvs - Dutch Iris	0.19	
32 93 23 00-0131	EA		Top Size Muscari armeniacum - Grape Hyacinth	0.22	
32 93 23 00-0132	EA		Top Size Muscari latifolium - Grape Hyacinth	0.26	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0133 EA Narcissus 'Carlton' - Carlton Daffodil DNI	1.55	
32 93 23 00-0134 EA Narcissus 'Dutch Master' - Dutch Master Daffodil DNI	0.74	
32 93 23 00-0135 EA Narcissus 'February Gold' - February Gold Daffodil DNI	0.78	
32 93 23 00-0136 EA Narcissus 'Ice Follies' - Ice Follies Daffodil DNI	0.78	
32 93 23 00-0137 EA Narcissus 'Mount Hood' - Mount Hood Daffodil DNI	0.81	
32 93 23 00-0138 EA Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI	0.86	
32 93 23 00-0139 EA Narcissus 'Pipit' - Pipit Daffodil DNI	0.81	
32 93 23 00-0140 EA Narcissus 'Salome' - Salome Daffodil DNI	0.76	
32 93 23 00-0141 EA Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI	0.81	
32 93 23 00-0142 EA Narcissus 'Thalia' - Thalia Daffodil DNI	0.81	
32 93 23 00-0143 EA Top Size Scilla siberica - Siberian Squill	0.24	
32 93 23 00-0144 EA Top Size Tulip 'Angelique' - Angelique Tulip	0.69	
32 93 23 00-0145 EA Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip	0.52	
32 93 23 00-0146 EA Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip	0.69	
32 93 23 00-0147 EA Top Size Tulip 'Big Smile' - Big Smile Tulip	0.60	
32 93 23 00-0148 EA Top Size Tulip 'Black Parrot' - Black Parrot Tulip	0.86	
32 93 23 00-0149 EA Top Size Tulip 'Blue Heron' - Blue Heron Tulip	0.66	
32 93 23 00-0150 EA Top Size Tulip 'Cardinal' - Cardinal Tulip	0.57	
32 93 23 00-0151 EA Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip	0.64	
32 93 23 00-0152 EA Top Size Tulip clusiana - Species Tulip	0.64	
32 93 23 00-0153 EA Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip	0.64	
32 93 23 00-0154 EA Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip	0.52	
32 93 23 00-0155 EA Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip	0.50	
32 93 23 00-0156 EA Top Size Tulip 'Halcro' - Halcro Tulip	0.52	
32 93 23 00-0157 EA Top Size Tulip 'Ivory Floridale' - Ivory Floridale Tulip	0.86	
32 93 23 00-0158 EA Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip	0.52	
32 93 23 00-0159 EA Top Size Tulip 'Passionale' - Passionale Tulip	0.69	
32 93 23 00-0160 EA Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip	0.74	
32 93 23 00-0161 EA Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip	0.78	
32 93 23 00-0162 EA Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip	0.62	
32 93 23 00-0163 EA Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip	0.59	
32 93 23 00-0164 EA Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip	0.64	
32 93 23 00-0165 EA Top Size Tulip 'Princeps' - Princeps Tulip	0.64	
32 93 23 00-0166 EA Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip	0.50	
32 93 23 00-0167 EA Top Size Tulip saxatilis - Species Tulip	0.35	
32 93 23 00-0168 EA Top Size Tulip 'Shirley' - Shirley Tulip	0.52	
32 93 23 00-0169 EA Top Size Tulip 'Spring Green' - Spring Green Tulip	0.67	
32 93 23 00-0170 EA Top Size Tulip 'White Emperor' - White Emperor Tulip	0.52	

32 93 33 Shrubs (32 93 33)

Note: (cvs = cultivar) materials only. See CSI section 32 93 53 00-0033 for installation and planting of shrubs.

32 93 33 00-0001 Shrubs (32 93 33)

32 93 33 00-0002 EA 1 Gallon Abelia x grandiflora - Abelia	9.80
32 93 33 00-0003 EA 3 Gallon Abelia x grandiflora - Abelia	19.95
32 93 33 00-0004 EA 5 Gallon Abelia x grandiflora - Abelia	38.30
32 93 33 00-0005 EA 1 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	5.11
32 93 33 00-0006 EA 5 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	12.65
32 93 33 00-0007 EA 15 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	50.21
32 93 33 00-0008 EA 3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	260.06
32 93 33 00-0009 EA 18" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	380.08
32 93 33 00-0010 EA 24" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	424.09
32 93 33 00-0011 EA 30" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	536.12
32 93 33 00-0012 EA 36" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	596.13
32 93 33 00-0013 EA 18" B&B Aesculus parviflora - Bottlebrush Buckeye	120.03
32 93 33 00-0014 EA 24" B&B Aesculus parviflora - Bottlebrush Buckeye	160.03
32 93 33 00-0015 EA 30" B&B Aesculus parviflora - Bottlebrush Buckeye	200.04
32 93 33 00-0016 EA 1 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	5.11
32 93 33 00-0017 EA 5 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	12.65
32 93 33 00-0018 EA 36" B&B Aronia arbutifolia & cvs - Red Chokeberry	68.01
32 93 33 00-0019 EA 42" B&B Aronia arbutifolia & cvs - Red Chokeberry	80.02
32 93 33 00-0020 EA 48" B&B Aronia arbutifolia & cvs - Red Chokeberry	96.02
32 93 33 00-0021 EA 60" B&B Aronia arbutifolia & cvs - Red Chokeberry	112.02
32 93 33 00-0022 EA 72" B&B Aronia arbutifolia & cvs - Red Chokeberry	136.03
32 93 33 00-0023 EA 36" B&B Aronia melanocarpa & cvs - Black Chokeberry	66.01
32 93 33 00-0024 EA 42" B&B Aronia melanocarpa & cvs - Black Chokeberry	70.02
32 93 33 00-0025 EA 48" B&B Aronia melanocarpa & cvs - Black Chokeberry	74.02
32 93 33 00-0026 EA 60" B&B Aronia melanocarpa & cvs - Black Chokeberry	84.02
32 93 33 00-0027 EA 36" B&B Aronia prunifolia - Purple-Fruited Chokeberry	67.01
32 93 33 00-0028 EA 42" B&B Aronia prunifolia - Purple-Fruited Chokeberry	71.02
32 93 33 00-0029 EA 48" B&B Aronia prunifolia - Purple-Fruited Chokeberry	75.02
32 93 33 00-0030 EA 60" B&B Aronia prunifolia - Purple-Fruited Chokeberry	79.02
32 93 33 00-0031 EA 1 Gallon Aspidistra elatior - Cast Iron Plant	13.75
32 93 33 00-0032 EA 2 Gallon Aspidistra elatior - Cast Iron Plant	31.81
32 93 33 00-0033 EA 1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	16.12
32 93 33 00-0034 EA 3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	35.46
32 93 33 00-0035 EA 5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	47.92
32 93 33 00-0036 EA 1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	5.11
32 93 33 00-0037 EA 5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	12.65
32 93 33 00-0038 EA 1 Gallon Baccharis pilularis "Twin Peaks" - Dwarf Coyote Brush	5.11
32 93 33 00-0039 EA 5 Gallon Baccharis pilularis "Twin Peaks" - Dwarf Coyote Brush	12.65



Exterior Improvements			32
Planting			32 90
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MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
32 93 33 00-0040	EA	1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	17.19		
32 93 33 00-0041	EA	2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	25.14		
32 93 33 00-0042	EA	15" To 18" Berberis - Northern Bayberry	71.78		
32 93 33 00-0043	EA	2' To 2-1/2' Berberis - Northern Bayberry	91.12		
32 93 33 00-0044	EA	2-1/2' To 3' Berberis - Northern Bayberry	127.65		
32 93 33 00-0045	EA	1 Gallon Berberis Buxifolia 'Nana' - Barberry.....	5.77		
32 93 33 00-0046	EA	5 Gallon Berberis Buxifolia 'Nana' - Barberry.....	13.91		
32 93 33 00-0047	EA	18" To 24" Berberis julianae - Dwarf Wintergreen Barberry.....	76.72		
32 93 33 00-0048	EA	2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry.....	98.21		
32 93 33 00-0049	EA	2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry.....	125.50		
32 93 33 00-0050	EA	1 Gallon Berberis thunbergii - Crimson Pygmy Barberry	20.63		
32 93 33 00-0051	EA	2 Gallon Berberis thunbergii - Crimson Pygmy Barberry	40.62		
32 93 33 00-0052	EA	3 Gallon Berberis thunbergii - Crimson Pygmy Barberry	49.64		
32 93 33 00-0053	EA	1 Gallon Berberis x mentorensis - Mentor Barberry.....	19.56		
32 93 33 00-0054	EA	5 Gallon Berberis x mentorensis - Mentor Barberry.....	55.23		
32 93 33 00-0055	EA	2' To 3' Berberis x mentorensis - Mentor Barberry.....	76.72		
32 93 33 00-0056	EA	3' To 4' Berberis x mentorensis - Mentor Barberry.....	118.41		
32 93 33 00-0057	EA	1 Gallon Buxus microphylla japonica - Japanese Boxwood.....	22.35		
32 93 33 00-0058	EA	5 Gallon Buxus microphylla japonica - Japanese Boxwood.....	59.96		
32 93 33 00-0059	EA	12" To 15" Buxus microphylla japonica - Japanese Boxwood	63.83		
32 93 33 00-0060	EA	15" To 18" Buxus microphylla japonica - Japanese Boxwood	82.09		
32 93 33 00-0061	EA	18" To 24" Buxus microphylla japonica - Japanese Boxwood	109.39		
32 93 33 00-0062	EA	24" To 30" Buxus microphylla japonica - Japanese Boxwood	164.19		
32 93 33 00-0063	EA	30" To 36" Buxus microphylla japonica - Japanese Boxwood	228.01		
32 93 33 00-0064	EA	12" To 15" Buxus sempervirens - Common Boxwood	63.83		
32 93 33 00-0065	EA	15" To 18" Buxus sempervirens - Common Boxwood	82.09		
32 93 33 00-0066	EA	18" To 24" Buxus sempervirens - Common Boxwood	109.39		
32 93 33 00-0067	EA	24" To 30" Buxus sempervirens - Common Boxwood	164.19		
32 93 33 00-0068	EA	2 Gallon Buxus Hybrid - Boxwood Cultivars	42.01		
32 93 33 00-0069	EA	5 Gallon Buxus Hybrid - Boxwood Cultivars	70.02		
32 93 33 00-0070	EA	5 Gallon Buxus microphylla & cvs - Little leaf Boxwood	184.04		
32 93 33 00-0071	EA	18" B&B Buxus microphylla & cvs - Little leaf Boxwood	100.02		
32 93 33 00-0072	EA	24" B&B Buxus microphylla & cvs - Little leaf Boxwood	136.03		
32 93 33 00-0073	EA	30" B&B Buxus microphylla & cvs - Little leaf Boxwood	184.04		
32 93 33 00-0074	EA	1 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	4.59		
32 93 33 00-0075	EA	5 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	14.13		
32 93 33 00-0076	EA	15 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	45.91		
32 93 33 00-0077	EA	5 Gallon Calycanthus floridus - Common Sweetshrub.....	66.01		
32 93 33 00-0078	EA	30" B&B Calycanthus floridus - Common Sweetshrub.....	60.01		
32 93 33 00-0079	EA	36" B&B Calycanthus floridus - Common Sweetshrub.....	80.02		
32 93 33 00-0080	EA	1 Gallon Camellia "Sasanqua" - Camellia.....	16.12		
32 93 33 00-0081	EA	3 Gallon Camellia "Sasanqua" - Camellia.....	34.38		
32 93 33 00-0082	EA	5 Gallon Camellia "Sasanqua" - Camellia.....	57.16		
32 93 33 00-0083	EA	7 Gallon Camellia "Sasanqua" - Camellia.....	85.12		
32 93 33 00-0084	EA	15 Gallon Camellia "Sasanqua" - Camellia.....	220.85		
32 93 33 00-0085	EA	1 Gallon Camellia japonica - Camellia.....	16.12		
32 93 33 00-0086	EA	3 Gallon Camellia japonica - Camellia.....	34.38		
32 93 33 00-0087	EA	5 Gallon Camellia japonica - Camellia.....	57.16		
32 93 33 00-0088	EA	5 Gallon Ceanothus americanus - New Jersey Tea.....	66.01		
32 93 33 00-0089	EA	1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	5.77		
32 93 33 00-0090	EA	5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	15.01		
32 93 33 00-0091	EA	5 Gallon Celastrus scandens - Bittersweet	66.01		
32 93 33 00-0092	EA	36" B&B Celastrus scandens - Bittersweet	56.01		
32 93 33 00-0093	EA	5 Gallon Cephalanthus occidentalis - Buttonbush	66.01		
32 93 33 00-0094	EA	24" B&B Cephalanthus occidentalis - Buttonbush	50.01		
32 93 33 00-0095	EA	30" B&B Cephalanthus occidentalis - Buttonbush	56.01		
32 93 33 00-0096	EA	36" B&B Cephalanthus occidentalis - Buttonbush	60.01		
32 93 33 00-0097	EA	18" To 24" Chaenomeles speciosa - Flowering Quince	57.59		
32 93 33 00-0098	EA	2' To 3' Chaenomeles speciosa - Flowering Quince	76.72		
32 93 33 00-0099	EA	3' To 4' Chaenomeles speciosa - Flowering Quince	118.41		
32 93 33 00-0100	EA	1 Gallon Cistus Hybridus - White Rockrose	5.11		
32 93 33 00-0101	EA	5 Gallon Cistus Hybridus - White Rockrose	12.65		
32 93 33 00-0102	EA	3 Gallon Clethra alnifolia & cvs - Summersweet Clethra	64.01		
32 93 33 00-0103	EA	18" B&B Clethra alnifolia & cvs - Summersweet Clethra	69.02		
32 93 33 00-0104	EA	24" B&B Clethra alnifolia & cvs - Summersweet Clethra	77.02		
32 93 33 00-0105	EA	30" B&B Clethra alnifolia & cvs - Summersweet Clethra	81.02		
32 93 33 00-0106	EA	36" B&B Clethra alnifolia & cvs - Summersweet Clethra	95.02		
32 93 33 00-0107	EA	1 Gallon Coleonema Pulchellum - Confetti Bush	5.11		
32 93 33 00-0108	EA	5 Gallon Coleonema Pulchellum - Confetti Bush	12.65		
32 93 33 00-0109	EA	15 Gallon Coleonema Pulchellum - Confetti Bush	59.23		
32 93 33 00-0110	EA	2' To 3' Cornus mas - Cornelian Cherry.....	91.12		
32 93 33 00-0111	EA	3' To 4' Cornus mas - Cornelian Cherry.....	113.90		
32 93 33 00-0112	EA	4' To 5' Cornus mas - Cornelian Cherry.....	145.92		
32 93 33 00-0113	EA	5' To 6' Cornus mas - Cornelian Cherry.....	200.50		
32 93 33 00-0114	EA	5 Gallon Cornus alba & cvs - Tartarian Dogwood.....	60.01		
32 93 33 00-0115	EA	36" B&B Cornus alba & cvs - Tartarian Dogwood.....	42.01		
32 93 33 00-0116	EA	48" B&B Cornus alba & cvs - Tartarian Dogwood.....	48.01		
32 93 33 00-0117	EA	60" B&B Cornus alba & cvs - Tartarian Dogwood.....	60.01		
32 93 33 00-0118	EA	72" B&B Cornus alba & cvs - Tartarian Dogwood.....	72.02		
32 93 33 00-0119	EA	36" B&B Cornus amomum - Silky Dogwood	60.01		
32 93 33 00-0120	EA	5 Gallon Cornus obliqua - Blue Fruited Dogwood.....	66.01		

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0121	EA	5 Gallon Cornus racemosa - Gray Dogwood	66.01	
32 93 33 00-0122	EA	36" B&B Cornus racemosa - Gray Dogwood	60.01	
32 93 33 00-0123	EA	48" B&B Cornus racemosa - Gray Dogwood	70.02	
32 93 33 00-0124	EA	60" B&B Cornus racemosa - Gray Dogwood	76.02	
32 93 33 00-0125	EA	72" B&B Cornus racemosa - Gray Dogwood	92.02	
32 93 33 00-0126	EA	36" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	65.01	
32 93 33 00-0127	EA	48" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	73.02	
32 93 33 00-0128	EA	60" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	83.02	
32 93 33 00-0129	EA	24" B&B Cornus sericea & cvs - Redosier Dogwood	52.01	
32 93 33 00-0130	EA	30" B&B Cornus sericea & cvs - Redosier Dogwood	60.01	
32 93 33 00-0131	EA	36" B&B Cornus sericea & cvs - Redosier Dogwood	64.01	
32 93 33 00-0132	EA	48" B&B Cornus sericea & cvs - Redosier Dogwood	70.02	
32 93 33 00-0133	EA	60" B&B Cornus sericea & cvs - Redosier Dogwood	78.02	
32 93 33 00-0134	EA	5 Gallon Corylus americana - American Filbert	62.01	
32 93 33 00-0135	EA	30" B&B Corylus americana - American Filbert	70.02	
32 93 33 00-0136	EA	36" B&B Corylus americana - American Filbert	75.02	
32 93 33 00-0137	EA	48" B&B Corylus americana - American Filbert	81.02	
32 93 33 00-0138	EA	24" B&B Corylus avellana - Contorted Hazelnut	200.04	
32 93 33 00-0139	EA	30" B&B Corylus avellana - Contorted Hazelnut	260.06	
32 93 33 00-0140	EA	36" B&B Corylus avellana - Contorted Hazelnut	280.06	
32 93 33 00-0141	EA	42" B&B Corylus avellana - Contorted Hazelnut	360.08	
32 93 33 00-0142	EA	48" B&B Corylus avellana - Contorted Hazelnut	440.10	
32 93 33 00-0143	EA	60" B&B Corylus avellana - Contorted Hazelnut	500.11	
32 93 33 00-0144	EA	5' To 6' Cotinus coggygria - Smoke Tree	191.48	
32 93 33 00-0145	EA	6' To 8' Cotinus coggygria - Smoke Tree	287.11	
32 93 33 00-0146	EA	8' To 10' Cotinus coggygria - Smoke Tree	433.03	
32 93 33 00-0147	EA	5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster	50.01	
32 93 33 00-0148	EA	18" B&B Cotoneaster acutifolia & cvs - Peking Cotoneaster	50.01	
32 93 33 00-0149	EA	24" B&B Cotoneaster acutifolia & cvs - Peking Cotoneaster	52.01	
32 93 33 00-0150	EA	12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster	47.92	
32 93 33 00-0151	EA	3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster	52.01	
32 93 33 00-0152	EA	18" B&B Cotoneaster apiculata & cvs - Cranberry Cotoneaster	50.01	
32 93 33 00-0153	EA	24" B&B Cotoneaster apiculata & cvs - Cranberry Cotoneaster	52.01	
32 93 33 00-0154	EA	1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster	20.63	
32 93 33 00-0155	EA	2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster	63.83	
32 93 33 00-0156	EA	3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster	86.18	
32 93 33 00-0157	EA	4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster	145.92	
32 93 33 00-0158	EA	1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	5.11	
32 93 33 00-0159	EA	5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	12.65	
32 93 33 00-0160	EA	1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	20.63	
32 93 33 00-0161	EA	2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	40.62	
32 93 33 00-0162	EA	1 Gallon Cotoneaster lacteus - Red Clusterberry	5.11	
32 93 33 00-0163	EA	5 Gallon Cotoneaster lacteus - Red Clusterberry	12.65	
32 93 33 00-0164	EA	15 Gallon Cotoneaster lacteus - Red Clusterberry	50.21	
32 93 33 00-0165	EA	1 Gallon Dendromecon harfordii - Island Bush Poppy	11.77	
32 93 33 00-0166	EA	5 Gallon Dendromecon harfordii - Island Bush Poppy	29.43	
32 93 33 00-0167	EA	18" B&B Deutzia gracilis - Slender Deutzia	51.01	
32 93 33 00-0168	EA	24" B&B Deutzia gracilis - Slender Deutzia	56.01	
32 93 33 00-0169	EA	30" B&B Deutzia gracilis - Slender Deutzia	72.02	
32 93 33 00-0170	EA	36" B&B Deutzia gracilis - Slender Deutzia	84.02	
32 93 33 00-0171	EA	42" B&B Deutzia gracilis - Slender Deutzia	96.02	
32 93 33 00-0172	EA	24" B&B Diervilla sessilifolia - Southern Bush Honeysuckle	80.02	
32 93 33 00-0173	EA	30" B&B Diervilla sessilifolia - Southern Bush Honeysuckle	96.02	
32 93 33 00-0174	EA	36" B&B Diervilla sessilifolia - Southern Bush Honeysuckle	112.02	
32 93 33 00-0175	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle	30.01	
32 93 33 00-0176	EA	36" B&B Diervilla splendens - Splendens Bush Honeysuckle	72.02	
32 93 33 00-0177	EA	48" B&B Diervilla splendens - Splendens Bush Honeysuckle	96.02	
32 93 33 00-0178	EA	5 Gallon Elaeagnus angustifolia - Russian Olive	12.65	
32 93 33 00-0179	EA	1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	5.11	
32 93 33 00-0180	EA	5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	12.65	
32 93 33 00-0181	EA	15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	50.21	
32 93 33 00-0182	EA	1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	5.11	
32 93 33 00-0183	EA	5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	12.65	
32 93 33 00-0184	EA	15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	50.21	
32 93 33 00-0185	EA	3' To 4' Elaeagnus umbellata - Autumn Olive	59.74	
32 93 33 00-0186	EA	4' To 5' Elaeagnus umbellata - Autumn Olive	82.09	
32 93 33 00-0187	EA	5' To 6' Elaeagnus umbellata - Autumn Olive	98.21	
32 93 33 00-0188	EA	3' To 4' Elaeagnus angustifolia - Russian Olive	95.63	
32 93 33 00-0189	EA	1 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	5.11	
32 93 33 00-0190	EA	5 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	12.65	
32 93 33 00-0191	EA	15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	50.21	
32 93 33 00-0192	EA	1 Gallon Euonymus - Gold Spot	17.19	
32 93 33 00-0193	EA	2 Gallon Euonymus - Gold Spot	36.10	
32 93 33 00-0194	EA	5 Gallon Euonymus - Gold Spot	49.64	
32 93 33 00-0195	EA	1 Gallon Euonymus alatus - Winged Euonymus	14.68	
32 93 33 00-0196	EA	3 Gallon Euonymus alatus - Winged Euonymus	42.33	
32 93 33 00-0197	EA	24" B&B Euonymus alatus - Winged Euonymus	57.05	
32 93 33 00-0198	EA	30" B&B Euonymus alatus - Winged Euonymus	71.32	
32 93 33 00-0199	EA	36" B&B Euonymus alatus - Winged Euonymus	98.00	
32 93 33 00-0200	EA	42" B&B Euonymus alatus - Winged Euonymus	121.01	
32 93 33 00-0201	EA	48" B&B Euonymus alatus - Winged Euonymus	142.63	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0202	EA		54" B&B Euonymus alatus - Winged Euonymus.....	184.04	
32 93 33 00-0203	EA		5 Gallon Euonymus alatus - Winged Euonymus.....	52.91	
32 93 33 00-0204	EA		60" B&B Euonymus alatus - Winged Euonymus.....	230.05	
32 93 33 00-0205	EA		30" B&B Euonymus alatus compactus - Compact Winged Euonymus.....	90.02	
32 93 33 00-0206	EA		36" B&B Euonymus alatus compactus - Compact Winged Euonymus.....	107.02	
32 93 33 00-0207	EA		42" B&B Euonymus alatus compactus - Compact Winged Euonymus.....	140.03	
32 93 33 00-0208	EA		48" B&B Euonymus alatus compactus - Compact Winged Euonymus.....	168.04	
32 93 33 00-0209	EA		60" B&B Euonymus alatus compactus - Compact Winged Euonymus.....	208.05	
32 93 33 00-0210	EA		18" To 24" Euonymus alatus - Winged Burning Bush.....	63.83	
32 93 33 00-0211	EA		2' To 2-1/2' Euonymus alatus - Winged Burning Bush.....	75.22	
32 93 33 00-0212	EA		2-1/2' To 3' Euonymus alatus - Winged Burning Bush.....	102.72	
32 93 33 00-0213	EA		3' To 3-1/2' Euonymus alatus - Winged Burning Bush.....	123.14	
32 93 33 00-0214	EA		3-1/2' To 4' Euonymus alatus - Winged Burning Bush.....	154.94	
32 93 33 00-0215	EA		4' To 5' Euonymus alatus - Winged Burning Bush.....	218.77	
32 93 33 00-0216	EA		5' To 6' Euonymus alatus - Winged Burning Bush.....	273.57	
32 93 33 00-0217	EA		6' To 8' Euonymus alatus - Winged Burning Bush.....	319.13	
32 93 33 00-0218	EA		15" To 18" Euonymus alatus - Dwarf Winged Burning Bush.....	63.83	
32 93 33 00-0219	EA		18" To 24" Euonymus alatus - Dwarf Winged Burning Bush.....	72.85	
32 93 33 00-0220	EA		2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	88.97	
32 93 33 00-0221	EA		2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush.....	125.50	
32 93 33 00-0222	EA		3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	148.28	
32 93 33 00-0223	EA		3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush.....	177.72	
32 93 33 00-0224	EA		4' To 5' Euonymus alatus - Dwarf Winged Burning Bush.....	250.79	
32 93 33 00-0225	EA		5' To 6' Euonymus alatus - Dwarf Winged Burning Bush.....	296.35	
32 93 33 00-0226	EA		36" B&B Euonymus atropurpurea - Eastern Wahoo.....	54.01	
32 93 33 00-0227	EA		1 Gallon Euonymus fortunei - Wintercreeper.....	20.63	
32 93 33 00-0228	EA		2 Gallon Euonymus fortunei - Wintercreeper.....	40.62	
32 93 33 00-0229	EA		3 Gallon Euonymus fortunei - Wintercreeper.....	49.64	
32 93 33 00-0230	EA		5 Gallon Euonymus fortunei - Wintercreeper.....	58.88	
32 93 33 00-0231	EA		1 Gallon Euonymus japonicus - Evergreen Spindle.....	5.11	
32 93 33 00-0232	EA		5 Gallon Euonymus japonicus - Evergreen Spindle.....	12.65	
32 93 33 00-0233	EA		15 Gallon Euonymus japonicus - Evergreen Spindle.....	50.21	
32 93 33 00-0234	EA		2' To 3' Forsythia - Korean Forsythia.....	45.56	
32 93 33 00-0235	EA		3' To 4' Forsythia - Korean Forsythia.....	57.60	
32 93 33 00-0236	EA		4' To 5' Forsythia - Korean Forsythia.....	71.78	
32 93 33 00-0237	EA		30" B&B Forsythia cvs - Forsythia cultivars.....	46.01	
32 93 33 00-0238	EA		36" B&B Forsythia cvs - Forsythia cultivars.....	51.01	
32 93 33 00-0239	EA		48" B&B Forsythia cvs - Forsythia cultivars.....	55.01	
32 93 33 00-0240	EA		18" B&B Forsythia viridissima & cvs - Green Forsythia.....	48.01	
32 93 33 00-0241	EA		24" B&B Forsythia viridissima & cvs - Green Forsythia.....	64.01	
32 93 33 00-0242	EA		24" B&B Forsythia x intermedia & cvs - Border Forsythia.....	48.01	
32 93 33 00-0243	EA		30" B&B Forsythia x intermedia & cvs - Border Forsythia.....	56.01	
32 93 33 00-0244	EA		36" B&B Forsythia x intermedia & cvs - Border Forsythia.....	66.01	
32 93 33 00-0245	EA		42" B&B Forsythia x intermedia & cvs - Border Forsythia.....	76.02	
32 93 33 00-0246	EA		48" B&B Forsythia x intermedia & cvs - Border Forsythia.....	88.02	
32 93 33 00-0247	EA		2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	68.01	
32 93 33 00-0248	EA		3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	95.02	
32 93 33 00-0249	EA		5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	100.02	
32 93 33 00-0250	EA		15" B&B Fothergilla gardenii & cvs - Dwarf Fothergilla.....	104.02	
32 93 33 00-0251	EA		18" B&B Fothergilla gardenii & cvs - Dwarf Fothergilla.....	112.02	
32 93 33 00-0252	EA		24" B&B Fothergilla gardenii & cvs - Dwarf Fothergilla.....	136.03	
32 93 33 00-0253	EA		24" B&B Fothergilla major - Large Fothergilla.....	176.04	
32 93 33 00-0254	EA		30" B&B Fothergilla major - Large Fothergilla.....	200.04	
32 93 33 00-0255	EA		1 Gallon Gardenia jasminoides - Cape Jasmine.....	14.83	
32 93 33 00-0256	EA		3 Gallon Gardenia jasminoides - Cape Jasmine.....	38.90	
32 93 33 00-0257	EA		5 Gallon Gardenia jasminoides - Cape Jasmine.....	49.64	
32 93 33 00-0258	EA		1 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	5.11	
32 93 33 00-0259	EA		5 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	12.65	
32 93 33 00-0260	EA		15 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	50.21	
32 93 33 00-0261	EA		36" B&B Hamamelis vernalis & cvs - Vernal Witchhazel.....	140.03	
32 93 33 00-0262	EA		48" B&B Hamamelis vernalis & cvs - Vernal Witchhazel.....	228.05	
32 93 33 00-0263	EA		60" B&B Hamamelis vernalis & cvs - Vernal Witchhazel.....	288.06	
32 93 33 00-0264	EA		72" B&B Hamamelis vernalis & cvs - Vernal Witchhazel.....	440.10	
32 93 33 00-0265	EA		84" B&B Hamamelis vernalis & cvs - Vernal Witchhazel.....	500.11	
32 93 33 00-0266	EA		1 Gallon Hedychium gartdnerum - Variegated Ginger.....	8.51	
32 93 33 00-0267	EA		3 Gallon Hedychium gartdnerum - Variegated Ginger.....	29.91	
32 93 33 00-0268	EA		5 Gallon Hedychium gartdnerum - Variegated Ginger.....	57.51	
32 93 33 00-0269	EA		1 Gallon Hibiscus rosa-sinensis - Hibiscus.....	21.81	
32 93 33 00-0270	EA		3 Gallon Hibiscus rosa-sinensis - Hibiscus.....	36.81	
32 93 33 00-0271	EA		5 Gallon Hibiscus rosa-sinensis - Hibiscus.....	55.67	
32 93 33 00-0272	EA		5 Gallon Hibiscus syriacus - Rose Of Sharon.....	57.60	
32 93 33 00-0273	EA		2' To 3' Hibiscus syriacus - Rose Of Sharon.....	49.00	
32 93 33 00-0274	EA		3' To 4' Hibiscus syriacus - Rose Of Sharon.....	66.19	
32 93 33 00-0275	EA		4' To 5' Hibiscus syriacus - Rose Of Sharon.....	95.63	
32 93 33 00-0276	EA		5' To 6' Hibiscus syriacus - Rose Of Sharon.....	132.16	
32 93 33 00-0277	EA		2 Gallon Hydrangea - Blue Hydrangea.....	40.62	
32 93 33 00-0278	EA		5 Gallon Hydrangea - Blue Hydrangea.....	57.16	
32 93 33 00-0279	EA		2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea.....	63.83	
32 93 33 00-0280	EA		3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea.....	72.85	
32 93 33 00-0281	EA		2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea.....	40.62	
32 93 33 00-0282	EA		5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea.....	70.02	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0283	EA	30" B&B Hydrangea arborescens & cvs - Smooth Hydrangea.....	76.02
32 93 33 00-0284	EA	36" B&B Hydrangea arborescens & cvs - Smooth Hydrangea.....	88.02
32 93 33 00-0285	EA	4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	92.02
32 93 33 00-0286	EA	18" B&B Hydrangea macrophylla & cvs - Bigleaf Hydrangea	72.02
32 93 33 00-0287	EA	24" B&B Hydrangea macrophylla & cvs - Bigleaf Hydrangea	96.02
32 93 33 00-0288	EA	3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea.....	42.01
32 93 33 00-0289	EA	5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea.....	50.01
32 93 33 00-0290	EA	18" B&B Hydrangea paniculata & cvs - Panicle Hydrangea.....	43.01
32 93 33 00-0291	EA	24" B&B Hydrangea paniculata & cvs - Panicle Hydrangea.....	46.01
32 93 33 00-0292	EA	30" B&B Hydrangea paniculata & cvs - Panicle Hydrangea.....	52.01
32 93 33 00-0293	EA	36" B&B Hydrangea paniculata & cvs - Panicle Hydrangea.....	60.01
32 93 33 00-0294	EA	48" B&B Hydrangea paniculata & cvs - Panicle Hydrangea.....	80.02
32 93 33 00-0295	EA	18" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	58.01
32 93 33 00-0296	EA	24" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	66.01
32 93 33 00-0297	EA	30" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	78.02
32 93 33 00-0298	EA	2 Gallon Hypericum kalmianum - St. John's Wort.....	40.62
32 93 33 00-0299	EA	3 Gallon Hypericum kalmianum - Kalm St. John's Wort.....	48.01
32 93 33 00-0300	EA	24" B&B Hypericum kalmianum - Kalm St. John's Wort.....	52.01
32 93 33 00-0301	EA	1 Gallon Ilex "Carissa" - Holly	20.63
32 93 33 00-0302	EA	2 Gallon Ilex "Carissa" - Holly	40.62
32 93 33 00-0303	EA	5 Gallon Ilex "Carissa" - Holly	57.16
32 93 33 00-0304	EA	18" To 24" Ilex - Gulfside Sweet Holly	54.80
32 93 33 00-0305	EA	2' To 2-1/2' Ilex - Gulfside Sweet Holly	69.41
32 93 33 00-0306	EA	2-1/2' To 3' Ilex - Gulfside Sweet Holly	90.04
32 93 33 00-0307	EA	3' To 3-1/2' Ilex - Gulfside Sweet Holly	109.39
32 93 33 00-0308	EA	3 Gallon Ilex cornuta - Dwarf Horned Holly.....	40.94
32 93 33 00-0309	EA	1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	20.63
32 93 33 00-0310	EA	2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	40.62
32 93 33 00-0311	EA	5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	58.88
32 93 33 00-0312	EA	1 Gallon Ilex crenata - Hellers Japanese Holly	20.63
32 93 33 00-0313	EA	2 Gallon Ilex crenata - Hellers Japanese Holly	45.13
32 93 33 00-0314	EA	3 Gallon Ilex crenata - Hellers Japanese Holly	58.88
32 93 33 00-0315	EA	2 Gallon Ilex crenata - Hetzi Japanese Holly	45.13
32 93 33 00-0316	EA	3 Gallon Ilex crenata - Hetzi Japanese Holly	54.37
32 93 33 00-0317	EA	2' To 3' Ilex crenata - Hetzi Japanese Holly	109.39
32 93 33 00-0318	EA	3' To 4' Ilex crenata - Hetzi Japanese Holly	145.92
32 93 33 00-0319	EA	2' To 3' Ilex opaca - American Holly.....	145.92
32 93 33 00-0320	EA	3' To 4' Ilex opaca - American Holly.....	241.55
32 93 33 00-0321	EA	4' To 5' Ilex opaca - American Holly.....	309.89
32 93 33 00-0322	EA	5' To 6' Ilex opaca - American Holly.....	373.71
32 93 33 00-0323	EA	6' To 7' Ilex opaca - American Holly.....	524.15
32 93 33 00-0324	EA	7' To 8' Ilex opaca - American Holly.....	729.38
32 93 33 00-0325	EA	8' To 10' Ilex opaca - American Holly.....	1,048.29
32 93 33 00-0326	EA	10' To 12' Ilex opaca - American Holly.....	1,595.43
32 93 33 00-0327	EA	12' To 14' Ilex opaca - American Holly.....	1,937.13
32 93 33 00-0328	EA	14' To 16' Ilex opaca - American Holly.....	2,392.93
32 93 33 00-0329	EA	2' To 3' Ilex verticillata - Winterberry (Female).....	145.92
32 93 33 00-0330	EA	3' To 4' Ilex verticillata - Winterberry (Female).....	191.48
32 93 33 00-0331	EA	2' To 3' Ilex verticillata - Winterberry (Male).....	118.41
32 93 33 00-0332	EA	3' To 4' Ilex verticillata - Winterberry (Male).....	164.19
32 93 33 00-0333	EA	4' To 5' Ilex verticillata - Winterberry (Male).....	191.48
32 93 33 00-0334	EA	1 Gallon Ilex vomitoria - Yaupon Holly.....	19.34
32 93 33 00-0335	EA	3 Gallon Ilex vomitoria - Yaupon Holly.....	38.90
32 93 33 00-0336	EA	10 Gallon Ilex vomitoria - Yaupon Holly.....	136.68
32 93 33 00-0337	EA	18" B&B Ilex glabra compacta & cvs - Compact Inkberry Holly	62.01
32 93 33 00-0338	EA	24" B&B Ilex glabra compacta & cvs - Compact Inkberry Holly	70.02
32 93 33 00-0339	EA	3 Gallon Ilex meserveae & cvs - Blue Holly	80.02
32 93 33 00-0340	EA	18" B&B Ilex meserveae & cvs - Blue Holly	74.02
32 93 33 00-0341	EA	24" B&B Ilex meserveae & cvs - Blue Holly	90.02
32 93 33 00-0342	EA	5 Gallon Ilex verticillata & cvs - Common Winterberry	66.01
32 93 33 00-0343	EA	24" B&B Ilex verticillata & cvs - Common Winterberry	66.01
32 93 33 00-0344	EA	30" B&B Ilex verticillata & cvs - Common Winterberry	70.02
32 93 33 00-0345	EA	36" B&B Ilex verticillata & cvs - Common Winterberry	84.02
32 93 33 00-0346	EA	42" B&B Ilex verticillata & cvs - Common Winterberry	94.02
32 93 33 00-0347	EA	48" B&B Ilex verticillata & cvs - Common Winterberry	100.02
32 93 33 00-0348	EA	60" B&B Ilex verticillata & cvs - Common Winterberry	128.03
32 93 33 00-0349	EA	4' To 5' Ilex x attenuata "Foster" - Holly	237.04
32 93 33 00-0350	EA	5' To 6' Ilex x attenuata "Foster" - Holly	314.40
32 93 33 00-0351	EA	6' To 7' Ilex x attenuata "Foster" - Holly	281.31
32 93 33 00-0352	EA	7' To 8' Ilex x attenuata "Foster" - Holly	546.93
32 93 33 00-0353	EA	1 Gallon Jasminum - Jasmine.....	5.29
32 93 33 00-0354	EA	3 Gallon Jasminum - Jasmine.....	20.70
32 93 33 00-0355	EA	3 Gallon Jasminum - Orange Jasmine.....	16.10
32 93 33 00-0356	EA	4' - 5' Jasminum - Orange Jasmine.....	184.04
32 93 33 00-0357	EA	6' - 7' Jasminum - Orange Jasmine.....	368.08
32 93 33 00-0358	EA	8' - 10' Jasminum - Orange Jasmine.....	496.91
32 93 33 00-0359	EA	3 Gallon Juniperus chinensis cvs - Chinese Juniper.....	70.02
32 93 33 00-0360	EA	5 Gallon Juniperus chinensis cvs - Chinese Juniper.....	78.02
32 93 33 00-0361	EA	18" B&B Juniperus chinensis cvs - Chinese Juniper.....	104.02
32 93 33 00-0362	EA	24" B&B Juniperus chinensis cvs - Chinese Juniper.....	136.03
32 93 33 00-0363	EA	30" B&B Juniperus chinensis cvs - Chinese Juniper.....	160.03

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

32

MINOR	CSU	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0364	EA		36" B&B Juniperus chinensis cvs - Chinese Juniper.....	216.05	
32 93 33 00-0365	EA		48" B&B Juniperus chinensis cvs - Chinese Juniper.....	296.06	
32 93 33 00-0366	EA		1 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	33.36	
32 93 33 00-0367	EA		3 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	70.02	
32 93 33 00-0368	EA		5 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	78.02	
32 93 33 00-0369	EA		15" B&B Juniperus horizontalis cvs - Creeping Juniper.....	84.02	
32 93 33 00-0370	EA		18" B&B Juniperus horizontalis cvs - Creeping Juniper.....	92.02	
32 93 33 00-0371	EA		24" B&B Juniperus horizontalis cvs - Creeping Juniper.....	112.02	
32 93 33 00-0372	EA		30" B&B Juniperus horizontalis cvs - Creeping Juniper.....	136.03	
32 93 33 00-0373	EA		3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper.....	54.01	
32 93 33 00-0374	EA		18" B&B Juniperus procumbens cvs - Japanese Garden Juniper.....	64.01	
32 93 33 00-0375	EA		24" B&B Juniperus procumbens cvs - Japanese Garden Juniper.....	88.02	
32 93 33 00-0376	EA		30" B&B Juniperus procumbens cvs - Japanese Garden Juniper.....	112.02	
32 93 33 00-0377	EA		36" B&B Juniperus procumbens cvs - Japanese Garden Juniper.....	136.03	
32 93 33 00-0378	EA		3 Gallon Juniperus sabina cvs - Savin Juniper.....	50.01	
32 93 33 00-0379	EA		5 Gallon Juniperus sabina cvs - Savin Juniper.....	60.01	
32 93 33 00-0380	EA		4 Gallon Juniperus virginiana cvs - Red Cedar Juniper.....	52.01	
32 93 33 00-0381	EA		36" B&B Juniperus virginiana cvs - Red Cedar Juniper.....	100.02	
32 93 33 00-0382	EA		48" B&B Juniperus virginiana cvs - Red Cedar Juniper.....	156.03	
32 93 33 00-0383	EA		60" B&B Juniperus virginiana cvs - Red Cedar Juniper.....	196.04	
32 93 33 00-0384	EA		15" To 18" Kalmia latifolia - Mountain Laurel.....	82.09	
32 93 33 00-0385	EA		18" To 24" Kalmia latifolia - Mountain Laurel.....	109.38	
32 93 33 00-0386	EA		2' To 3' Kalmia latifolia - Mountain Laurel.....	159.46	
32 93 33 00-0387	EA		4' To 5' Kalmia latifolia - Mountain Laurel.....	291.62	
32 93 33 00-0388	EA		5' To 6' Kalmia latifolia - Mountain Laurel.....	446.78	
32 93 33 00-0389	EA		6' To 8' Kalmia latifolia - Mountain Laurel.....	683.82	
32 93 33 00-0390	EA		1 Gallon Kerria japonica - Kerria.....	18.27	
32 93 33 00-0391	EA		5 Gallon Kerria japonica - Kerria.....	57.16	
32 93 33 00-0392	EA		24" B&B Kolkwitzia amabilis & cvs - Beautybush.....	58.01	
32 93 33 00-0393	EA		30" B&B Kolkwitzia amabilis & cvs - Beautybush.....	66.01	
32 93 33 00-0394	EA		36" B&B Kolkwitzia amabilis & cvs - Beautybush.....	72.02	
32 93 33 00-0395	EA		42" B&B Kolkwitzia amabilis & cvs - Beautybush.....	84.02	
32 93 33 00-0396	EA		48" B&B Kolkwitzia amabilis & cvs - Beautybush.....	96.02	
32 93 33 00-0397	EA		60" B&B Kolkwitzia amabilis & cvs - Beautybush.....	120.03	
32 93 33 00-0398	EA		1 Gallon Lagerstroemia indica - Crepe Myrtle.....	13.75	
32 93 33 00-0399	EA		5 Gallon Lagerstroemia indica - Crepe Myrtle.....	49.00	
32 93 33 00-0400	EA		3' To 4' Lagerstroemia indica - Crepe Myrtle.....	68.34	
32 93 33 00-0401	EA		4' To 5' Lagerstroemia indica - Crepe Myrtle.....	100.36	
32 93 33 00-0402	EA		5' To 6' Lagerstroemia indica - Crepe Myrtle.....	159.46	
32 93 33 00-0403	EA		7' To 8' Lagerstroemia indica - Crepe Myrtle.....	207.04	
32 93 33 00-0404	EA		9' To 10' Lagerstroemia indica - Crepe Myrtle.....	276.06	
32 93 33 00-0405	EA		11' To 12' Lagerstroemia indica - Crepe Myrtle.....	575.12	
32 93 33 00-0406	EA		1 Gallon Leucothoe axillaris - Coast Leucothoe.....	20.63	
32 93 33 00-0407	EA		2 Gallon Leucothoe axillaris - Coast Leucothoe.....	45.13	
32 93 33 00-0408	EA		3 Gallon Leucothoe axillaris - Coast Leucothoe.....	54.37	
32 93 33 00-0409	EA		1 Gallon Ligustrum lucidum - Glossy Privet.....	12.68	
32 93 33 00-0410	EA		5 Gallon Ligustrum lucidum - Glossy Privet.....	38.90	
32 93 33 00-0411	EA		15 Gallon Ligustrum lucidum - Glossy Privet.....	182.24	
32 93 33 00-0412	EA		1 Gallon Ligustrum sinense - Variegated Chinese Privet.....	12.68	
32 93 33 00-0413	EA		2 Gallon Ligustrum sinense - Variegated Chinese Privet.....	27.29	
32 93 33 00-0414	EA		3 Gallon Ligustrum sinense - Variegated Chinese Privet.....	35.46	
32 93 33 00-0415	EA		36" B&B Ligustrum vulgare & cvs - Common Privet.....	60.01	
32 93 33 00-0416	EA		48" B&B Ligustrum vulgare & cvs - Common Privet.....	88.02	
32 93 33 00-0417	EA		60" B&B Ligustrum vulgare & cvs - Common Privet.....	112.02	
32 93 33 00-0418	EA		72" B&B Ligustrum vulgare & cvs - Common Privet.....	128.03	
32 93 33 00-0419	EA		5 Gallon Linder benzoin - Spicebush.....	66.01	
32 93 33 00-0420	EA		36" B&B Linder benzoin - Spicebush.....	56.01	
32 93 33 00-0421	EA		48" B&B Linder benzoin - Spicebush.....	68.01	
32 93 33 00-0422	EA		2' To 3' Lonicera fragrantissima - Winter Honeysuckle.....	109.38	
32 93 33 00-0423	EA		3' To 4' Lonicera fragrantissima - Winter Honeysuckle.....	132.16	
32 93 33 00-0424	EA		30" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle.....	60.01	
32 93 33 00-0425	EA		36" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle.....	72.02	
32 93 33 00-0426	EA		42" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle.....	80.02	
32 93 33 00-0427	EA		48" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle.....	88.02	
32 93 33 00-0428	EA		1 Gallon Myrica cerifera - Wax Myrtle.....	11.50	
32 93 33 00-0429	EA		4 Gallon Myrica cerifera - Wax Myrtle.....	36.81	
32 93 33 00-0430	EA		7 Gallon Myrica cerifera - Wax Myrtle.....	80.52	
32 93 33 00-0431	EA		10 Gallon Myrica cerifera - Wax Myrtle.....	119.63	
32 93 33 00-0432	EA		15 Gallon Myrica cerifera - Wax Myrtle.....	184.04	
32 93 33 00-0433	EA		45 Gallon Myrica cerifera - Wax Myrtle.....	552.12	
32 93 33 00-0434	EA		1' - 2' Myrica cerifera - Wax Myrtle.....	16.10	
32 93 33 00-0435	EA		3' - 4' Myrica cerifera - Wax Myrtle.....	55.21	
32 93 33 00-0436	EA		5' - 6' Myrica cerifera - Wax Myrtle.....	101.22	
32 93 33 00-0437	EA		7' - 8' Myrica cerifera - Wax Myrtle.....	138.03	
32 93 33 00-0438	EA		9' - 10' Myrica cerifera - Wax Myrtle.....	184.04	
32 93 33 00-0439	EA		11' - 12' Myrica cerifera - Wax Myrtle.....	280.66	
32 93 33 00-0440	EA		3 Gallon Myrica pensylvanica - Northern Bayberry.....	60.01	
32 93 33 00-0441	EA		24" B&B Myrica pensylvanica - Northern Bayberry.....	98.02	
32 93 33 00-0442	EA		30" B&B Myrica pensylvanica - Northern Bayberry.....	144.03	
32 93 33 00-0443	EA		36" B&B Myrica pensylvanica - Northern Bayberry.....	172.04	
32 93 33 00-0444	EA		48" B&B Myrica pensylvanica - Northern Bayberry.....	180.04	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT
UNIT COST
DEMOLITION
UNIT COST

32 93 33 00-0445	EA	1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	5.11	
32 93 33 00-0446	EA	5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	12.65	
32 93 33 00-0447	EA	15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	50.21	
32 93 33 00-0448	EA	1 Gallon Nandina domestica - Heavenly Bamboo	20.63	
32 93 33 00-0449	EA	2 Gallon Nandina domestica - Heavenly Bamboo	45.13	
32 93 33 00-0450	EA	5 Gallon Nandina domestica - Heavenly Bamboo	68.34	
32 93 33 00-0451	EA	15 Gallon Nerium oleander - Oleander	54.94	
32 93 33 00-0452	EA	24" Box Nerium oleander - Oleander	197.43	
32 93 33 00-0453	EA	1 Gallon Osmanthus fragrans - Fragrant Tea Olive	12.68	
32 93 33 00-0454	EA	3 Gallon Osmanthus fragrans - Fragrant Tea Olive	34.38	
32 93 33 00-0455	EA	1 Gallon Philadelphus - Evergreen Mockorange	17.62	
32 93 33 00-0456	EA	5 Gallon Philadelphus - Evergreen Mockorange	57.16	
32 93 33 00-0457	EA	36" B&B Philadelphus x virginalis & cvs - Mockorange	60.01	
32 93 33 00-0458	EA	42" B&B Philadelphus x virginalis & cvs - Mockorange	70.02	
32 93 33 00-0459	EA	48" B&B Philadelphus x virginalis & cvs - Mockorange	80.02	
32 93 33 00-0460	EA	1 Gallon Photinia fraseri - Red-Tipped Photinia	5.11	
32 93 33 00-0461	EA	5 Gallon Photinia fraseri - Red-Tipped Photinia	12.65	
32 93 33 00-0462	EA	15 Gallon Photinia fraseri - Red-Tipped Photinia	50.21	
32 93 33 00-0463	EA	1 Gallon Phormium tenax - New Zealand Flax	5.39	
32 93 33 00-0464	EA	5 Gallon Phormium tenax - New Zealand Flax	12.92	
32 93 33 00-0465	EA	15 Gallon Phormium tenax - New Zealand Flax	54.94	
32 93 33 00-0466	EA	24" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	60.01	
32 93 33 00-0467	EA	30" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	70.02	
32 93 33 00-0468	EA	36" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	80.02	
32 93 33 00-0469	EA	42" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	100.02	
32 93 33 00-0470	EA	48" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	120.03	
32 93 33 00-0471	EA	12" To 15" Spread Pieris - Mountain Andromeda	55.23	
32 93 33 00-0472	EA	15" To 18" Spread Pieris - Mountain Andromeda	118.41	
32 93 33 00-0473	EA	12" To 15" Pieris japonica - Japanese Andromeda	71.78	
32 93 33 00-0474	EA	15" To 18" Pieris japonica - Japanese Andromeda	82.09	
32 93 33 00-0475	EA	18" To 24" Pieris japonica - Japanese Andromeda	102.72	
32 93 33 00-0476	EA	2' To 2-1/2' Pieris japonica - Japanese Andromeda	145.92	
32 93 33 00-0477	EA	2-1/2' To 3' Pieris japonica - Japanese Andromeda	173.21	
32 93 33 00-0478	EA	24" B&B Pinus mugo & cvs - Mugo Pine	100.02	
32 93 33 00-0479	EA	30" B&B Pinus mugo & cvs - Mugo Pine	128.03	
32 93 33 00-0480	EA	36" B&B Pinus mugo & cvs - Mugo Pine	154.03	
32 93 33 00-0481	EA	48" B&B Pinus mugo & cvs - Mugo Pine	198.04	
32 93 33 00-0482	EA	60" B&B Pinus mugo & cvs - Mugo Pine	238.05	
32 93 33 00-0483	EA	72" B&B Pinus mugo & cvs - Mugo Pine	348.08	
32 93 33 00-0484	EA	30" B&B Pinus mugo compacta - Dwarf Mugo Pine	216.05	
32 93 33 00-0485	EA	36" B&B Pinus mugo compacta - Dwarf Mugo Pine	260.06	
32 93 33 00-0486	EA	48" B&B Pinus mugo compacta - Dwarf Mugo Pine	346.08	
32 93 33 00-0487	EA	1 Gallon Pittosporum - Pittosporum	7.59	
32 93 33 00-0488	EA	3 Gallon Pittosporum - Pittosporum	19.55	
32 93 33 00-0489	EA	1 Gallon Pittosporum - Varigated Pittosporum	7.59	
32 93 33 00-0490	EA	3 Gallon Pittosporum - Varigated Pittosporum	19.55	
32 93 33 00-0491	EA	5 Gallon Pittosporum - Varigated Pittosporum	34.28	
32 93 33 00-0492	EA	1 Gallon Pittosporum eugenioides - Lemonwood	5.87	
32 93 33 00-0493	EA	5 Gallon Pittosporum eugenioides - Lemonwood	13.91	
32 93 33 00-0494	EA	1 Gallon Pittosporum tobira - Japanese Pittosporum	5.11	
32 93 33 00-0495	EA	5 Gallon Pittosporum tobira - Japanese Pittosporum	12.65	
32 93 33 00-0496	EA	15 Gallon Pittosporum tobira - Japanese Pittosporum	50.21	
32 93 33 00-0497	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	34.01	
32 93 33 00-0498	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	48.01	
32 93 33 00-0499	EA	18" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	36.01	
32 93 33 00-0500	EA	24" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	40.01	
32 93 33 00-0501	EA	30" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	58.01	
32 93 33 00-0502	EA	36" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	67.01	
32 93 33 00-0503	EA	1 Gallon Prunus caroliniana - Carolina Cherry Laurel	13.75	
32 93 33 00-0504	EA	3 Gallon Prunus caroliniana - Carolina Cherry Laurel	34.38	
32 93 33 00-0505	EA	15 Gallon Prunus caroliniana - Carolina Cherry Laurel	205.02	
32 93 33 00-0506	EA	15" To 18" Prunus laurocerasus - Cherry Laurel	52.44	
32 93 33 00-0507	EA	18" To 24" Prunus laurocerasus - Cherry Laurel	64.90	
32 93 33 00-0508	EA	24" To 30" Prunus laurocerasus - Cherry Laurel	84.46	
32 93 33 00-0509	EA	15" To 18" Prunus triloba - Double White Flowering Almond	46.85	
32 93 33 00-0510	EA	18" To 24" Prunus triloba - Double White Flowering Almond	59.96	
32 93 33 00-0511	EA	3' To 4' Prunus triloba - Double White Flowering Almond	95.63	
32 93 33 00-0512	EA	4' To 6' Prunus triloba - Double White Flowering Almond	191.48	
32 93 33 00-0513	EA	5 Gallon Prunus triloba - Pink Flowering Almond	57.60	
32 93 33 00-0514	EA	18" To 24" Prunus triloba - Pink Flowering Almond	64.69	
32 93 33 00-0515	EA	2' To 3' Prunus triloba - Pink Flowering Almond	75.22	
32 93 33 00-0516	EA	2' To 3' Prunus virginiana - Brilliant Chokeberry	51.15	
32 93 33 00-0517	EA	3' To 4' Prunus virginiana - Brilliant Chokeberry	62.75	
32 93 33 00-0518	EA	4' To 5' Prunus virginiana - Brilliant Chokeberry	75.22	
32 93 33 00-0519	EA	5' To 6' Prunus virginiana - Brilliant Chokeberry	86.18	
32 93 33 00-0520	EA	1 Gallon Punica granatum - Dwarf Pomegranate	13.54	
32 93 33 00-0521	EA	3 Gallon Punica granatum - Dwarf Pomegranate	39.97	
32 93 33 00-0522	EA	7 Gallon Punica granatum - Dwarf Pomegranate	82.09	
32 93 33 00-0523	EA	1 Gallon Pyracantha koidzumii "Santa Cruz" - Pyracantha	17.19	
32 93 33 00-0524	EA	5 Gallon Pyracantha koidzumii "Santa Cruz" - Pyracantha	57.16	
32 93 33 00-0525	EA	5 Gallon Espalier Pyracantha koidzumii "Santa Cruz" - Pyracantha	118.41	

**Exterior Improvements****32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0526	EA	1 Gallon Ralphialepis indica - Indian Hawthorne	13.75		
32 93 33 00-0527	EA	2 Gallon Ralphialepis indica - Indian Hawthorne	26.22		
32 93 33 00-0528	EA	5 Gallon Ralphialepis indica - Indian Hawthorne	46.64		
32 93 33 00-0529	EA	1 Gallon Rhamnus californica - Coffeeberry	20.90		
32 93 33 00-0530	EA	5 Gallon Rhamnus californica - Coffeeberry	59.78		
32 93 33 00-0531	EA	15 Gallon Rhamnus californica - Coffeeberry	179.41		
32 93 33 00-0532	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge	104.87		
32 93 33 00-0533	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge	143.77		
32 93 33 00-0534	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge	186.96		
32 93 33 00-0535	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge	341.91		
32 93 33 00-0536	EA	1 Gallon Rhamphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn	5.44		
32 93 33 00-0537	EA	5 Gallon Rhamphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn	12.92		
32 93 33 00-0538	EA	15 Gallon Rhamphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn	54.94		
32 93 33 00-0539	EA	1 Gallon Rhododendron - Azalea Evergreen Hybrids	22.35		
32 93 33 00-0540	EA	2 Gallon Rhododendron - Azalea Evergreen Hybrids	45.13		
32 93 33 00-0541	EA	3 Gallon Rhododendron - Azalea Evergreen Hybrids	58.88		
32 93 33 00-0542	EA	5 Gallon Rhododendron - Azalea Evergreen Hybrids	68.34		
32 93 33 00-0543	EA	15" To 18" Rhododendron - Azalea Evergreen Hybrids	79.94		
32 93 33 00-0544	EA	18" To 24" Rhododendron - Azalea Evergreen Hybrids	100.36		
32 93 33 00-0545	EA	2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids	145.92		
32 93 33 00-0546	EA	2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids	205.02		
32 93 33 00-0547	EA	1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	25.14		
32 93 33 00-0548	EA	2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	45.13		
32 93 33 00-0549	EA	15' To 18" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	77.58		
32 93 33 00-0550	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	100.36		
32 93 33 00-0551	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	145.92		
32 93 33 00-0552	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	214.26		
32 93 33 00-0553	EA	4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	287.11		
32 93 33 00-0554	EA	5 Gallon Rhododendron - Boxleaf Azara	57.16		
32 93 33 00-0555	EA	15 Gallon Rhododendron - Boxleaf Azara	205.02		
32 93 33 00-0556	EA	15" To 18" Rhododendron - Carolina Rhododendron	64.69		
32 93 33 00-0557	EA	18" To 24" Rhododendron - Carolina Rhododendron	113.90		
32 93 33 00-0558	EA	24" To 30" Rhododendron - Carolina Rhododendron	168.70		
32 93 33 00-0559	EA	2' To 3' Rhododendron - Five-leafed Azalea	76.72		
32 93 33 00-0560	EA	3' To 4' Rhododendron - Five-leafed Azalea	100.36		
32 93 33 00-0561	EA	4' To 5' Rhododendron - Five-leafed Azalea	132.16		
32 93 33 00-0562	EA	15" To 18" Rhododendron - Ghent Azalea	76.72		
32 93 33 00-0563	EA	18" To 24" Rhododendron - Ghent Azalea	95.63		
32 93 33 00-0564	EA	2' To 3' Rhododendron - Ghent Azalea	154.94		
32 93 33 00-0565	EA	3' To 4' Rhododendron - Ghent Azalea	214.26		
32 93 33 00-0566	EA	4' To 5' Rhododendron - Ghent Azalea	287.11		
32 93 33 00-0567	EA	5' To 6' Rhododendron - Ghent Azalea	382.96		
32 93 33 00-0568	EA	1 Gallon Rhododendron - Hybrid Rhododendron	25.14		
32 93 33 00-0569	EA	2 Gallon Rhododendron - Hybrid Rhododendron	54.37		
32 93 33 00-0570	EA	3 Gallon Rhododendron - Hybrid Rhododendron	77.15		
32 93 33 00-0571	EA	5 Gallon Rhododendron - Hybrid Rhododendron	86.18		
32 93 33 00-0572	EA	15" To 18" Rhododendron - Hybrid Rhododendron	72.85		
32 93 33 00-0573	EA	18" To 24" Rhododendron - Hybrid Rhododendron	100.36		
32 93 33 00-0574	EA	24" To 30" Rhododendron - Hybrid Rhododendron	136.68		
32 93 33 00-0575	EA	30" To 36" Rhododendron - Hybrid Rhododendron	159.46		
32 93 33 00-0576	EA	36" To 42" Rhododendron - Hybrid Rhododendron	228.01		
32 93 33 00-0577	EA	42" To 48" Rhododendron - Hybrid Rhododendron	282.60		
32 93 33 00-0578	EA	15" To 18" Rhododendron - Pjm Rhododendron	82.09		
32 93 33 00-0579	EA	18" To 24" Rhododendron - Pjm Rhododendron	100.36		
32 93 33 00-0580	EA	2' To 2-1/2' Rhododendron - Pjm Rhododendron	145.92		
32 93 33 00-0581	EA	2-1/2' To 3' Rhododendron - Pjm Rhododendron	186.96		
32 93 33 00-0582	EA	3' To 3-1/2' Rhododendron - Pjm Rhododendron	228.01		
32 93 33 00-0583	EA	12" To 15" Rhododendron - Torch Azalea	63.83		
32 93 33 00-0584	EA	15" To 18" Rhododendron - Torch Azalea	76.72		
32 93 33 00-0585	EA	18" To 24" Rhododendron - Torch Azalea	95.63		
32 93 33 00-0586	EA	2' To 3' Rhododendron - Torch Azalea	159.46		
32 93 33 00-0587	EA	3 Gallon Rhododendron cvs - Lepidote Rhododendron	72.02		
32 93 33 00-0588	EA	5 Gallon Rhododendron cvs - Lepidote Rhododendron	88.02		
32 93 33 00-0589	EA	18" B&B Rhododendron cvs - Lepidote Rhododendron	108.02		
32 93 33 00-0590	EA	24" B&B Rhododendron cvs - Lepidote Rhododendron	136.03		
32 93 33 00-0591	EA	30" B&B Rhododendron cvs - Lepidote Rhododendron	160.03		
32 93 33 00-0592	EA	36" B&B Rhododendron cvs - Lepidote Rhododendron	192.04		
32 93 33 00-0593	EA	1 Gallon Rhus glabra - Dwarf Smooth Sumac	20.63		
32 93 33 00-0594	EA	5 Gallon Rhus glabra - Dwarf Smooth Sumac	57.16		
32 93 33 00-0595	EA	2 Gallon Rhus aromatica & cvs - Fragrant Sumac	48.01		
32 93 33 00-0596	EA	5 Gallon Rhus aromatica & cvs - Fragrant Sumac	66.01		
32 93 33 00-0597	EA	18" B&B Rhus aromatica & cvs - Fragrant Sumac	76.02		
32 93 33 00-0598	EA	24" B&B Rhus aromatica & cvs - Fragrant Sumac	100.02		
32 93 33 00-0599	EA	36" B&B Rhus glabra - Smooth Sumac	60.01		
32 93 33 00-0600	EA	48" B&B Rhus typhina & cvs - Staghorn Sumac	100.02		
32 93 33 00-0601	EA	72" B&B Rhus typhina & cvs - Staghorn Sumac	160.03		
32 93 33 00-0602	EA	15" B&B Ribes alpinum & cvs - Alpine Currant	54.01		
32 93 33 00-0603	EA	18" B&B Ribes alpinum & cvs - Alpine Currant	62.01		
32 93 33 00-0604	EA	24" B&B Ribes alpinum & cvs - Alpine Currant	90.02		
32 93 33 00-0605	EA	30" B&B Ribes alpinum & cvs - Alpine Currant	120.03		
32 93 33 00-0606	EA	1 Gallon Rosa hybrids & cvs - Shrub Rose	33.01		

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT
UNIT COST DEMOLITION
UNIT COST

32 93 33 00-0607	EA	2 Gallon Rosa hybrids & cvs - Shrub Rose.....	40.01
32 93 33 00-0608	EA	3 Gallon Rosa hybrids & cvs - Shrub Rose.....	50.01
32 93 33 00-0609	EA	2 Gallon Rosa rugosa & cvs - Rugosa Rose.....	36.01
32 93 33 00-0610	EA	3 Gallon Rosa rugosa & cvs - Rugosa Rose.....	46.01
32 93 33 00-0611	EA	5 Gallon Sambucus canadensis - American Elder.....	66.01
32 93 33 00-0612	EA	1 Gallon Santolina chamaecyparissus - Lavender Cotton.....	5.11
32 93 33 00-0613	EA	5 Gallon Santolina chamaecyparissus - Lavender Cotton.....	12.65
32 93 33 00-0614	EA	1 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	5.11
32 93 33 00-0615	EA	5 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	12.65
32 93 33 00-0616	EA	2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	29.66
32 93 33 00-0617	EA	3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	43.41
32 93 33 00-0618	EA	1 Gallon Sarcococca humilis - Fragrant Sarcococca.....	16.12
32 93 33 00-0619	EA	5 Gallon Sarcococca humilis - Fragrant Sarcococca.....	42.12
32 93 33 00-0620	EA	5 Gallon Senna artemisioides - Feathery Cassia.....	14.13
32 93 33 00-0621	EA	15 Gallon Senna artemisioides - Feathery Cassia.....	56.22
32 93 33 00-0622	EA	24" Box Senna artemisioides - Feathery Cassia.....	176.60
32 93 33 00-0623	EA	1 Gallon Skimmia japonica - Japanese Skimmia.....	20.63
32 93 33 00-0624	EA	2 Gallon Skimmia japonica - Japanese Skimmia.....	41.05
32 93 33 00-0625	EA	5 Gallon Skimmia japonica - Japanese Skimmia.....	66.19
32 93 33 00-0626	EA	1 Gallon Sollya fusiformis - Bluebell Creeper.....	5.11
32 93 33 00-0627	EA	5 Gallon Sollya fusiformis - Bluebell Creeper.....	12.65
32 93 33 00-0628	EA	3' To 4' Spiraea - Garland Spirea.....	95.63
32 93 33 00-0629	EA	4' To 5' Spiraea - Garland Spirea.....	145.92
32 93 33 00-0630	EA	5 Gallon Spiraea - Snowmound Spirea.....	57.16
32 93 33 00-0631	EA	18" To 24" Spiraea - Snowmound Spirea.....	46.85
32 93 33 00-0632	EA	2' To 3' Spiraea - Snowmound Spirea.....	66.19
32 93 33 00-0633	EA	3' To 4' Spiraea - Snowmound Spirea.....	76.72
32 93 33 00-0634	EA	4' To 5' Spiraea - Snowmound Spirea.....	132.16
32 93 33 00-0635	EA	1 Gallon Spiraea japonica & cvs - Japanese Spirea.....	20.63
32 93 33 00-0636	EA	2 Gallon Spiraea japonica & cvs - Japanese Spirea.....	40.62
32 93 33 00-0637	EA	3 Gallon Spiraea japonica & cvs - Japanese Spirea.....	47.01
32 93 33 00-0638	EA	5 Gallon Spiraea japonica & cvs - Japanese Spirea.....	51.01
32 93 33 00-0639	EA	18" B&B Spiraea japonica & cvs - Japanese Spirea.....	52.01
32 93 33 00-0640	EA	24" B&B Spiraea japonica & cvs - Japanese Spirea.....	60.01
32 93 33 00-0641	EA	30" B&B Spiraea japonica & cvs - Japanese Spirea.....	68.01
32 93 33 00-0642	EA	36" B&B Spiraea japonica & cvs - Japanese Spirea.....	79.02
32 93 33 00-0643	EA	2 Gallon Spiraea nipponica & cvs - Nippon Spiraea.....	32.01
32 93 33 00-0644	EA	5 Gallon Spiraea nipponica & cvs - Nippon Spiraea.....	48.01
32 93 33 00-0645	EA	18" B&B Spiraea nipponica & cvs - Nippon Spiraea.....	44.01
32 93 33 00-0646	EA	24" B&B Spiraea nipponica & cvs - Nippon Spiraea.....	52.01
32 93 33 00-0647	EA	30" B&B Spiraea nipponica & cvs - Nippon Spiraea.....	60.01
32 93 33 00-0648	EA	36" B&B Spiraea nipponica & cvs - Nippon Spiraea.....	68.01
32 93 33 00-0649	EA	48" B&B Spiraea nipponica & cvs - Nippon Spiraea.....	88.02
32 93 33 00-0650	EA	1 Gallon Spiraea x bumalda & cvs - Bumalda Spirea.....	20.63
32 93 33 00-0651	EA	2 Gallon Spiraea x bumalda & cvs - Bumalda Spirea.....	37.01
32 93 33 00-0652	EA	4 Gallon Spiraea x bumalda & cvs - Bumalda Spirea.....	48.01
32 93 33 00-0653	EA	18" B&B Spiraea x bumalda & cvs - Bumalda Spirea.....	42.01
32 93 33 00-0654	EA	24" B&B Spiraea x bumalda & cvs - Bumalda Spirea.....	51.01
32 93 33 00-0655	EA	30" B&B Spiraea x bumalda & cvs - Bumalda Spirea.....	60.01
32 93 33 00-0656	EA	36" B&B Spiraea x bumalda & cvs - Bumalda Spirea.....	68.01
32 93 33 00-0657	EA	5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	48.01
32 93 33 00-0658	EA	18" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	48.01
32 93 33 00-0659	EA	24" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	56.01
32 93 33 00-0660	EA	30" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	76.02
32 93 33 00-0661	EA	36" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	88.02
32 93 33 00-0662	EA	42" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	104.02
32 93 33 00-0663	EA	5 Gallon Staphylea trifolia - Bladderhut.....	67.53
32 93 33 00-0664	EA	2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra.....	48.01
32 93 33 00-0665	EA	5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra.....	52.01
32 93 33 00-0666	EA	24" B&B Stephanandra incisa & cvs - Cutleaf Stephanandra.....	60.01
32 93 33 00-0667	EA	30" B&B Stephanandra incisa & cvs - Cutleaf Stephanandra.....	72.02
32 93 33 00-0668	EA	2 Gallon Symphoricarpos albus - Common Snowberry.....	50.01
32 93 33 00-0669	EA	5 Gallon Symphoricarpos albus - Common Snowberry.....	53.01
32 93 33 00-0670	EA	24" B&B Syringa meyeri & cvs - Meyer Lilac.....	88.02
32 93 33 00-0671	EA	30" B&B Syringa meyeri & cvs - Meyer Lilac.....	110.02
32 93 33 00-0672	EA	36" B&B Syringa meyeri & cvs - Meyer Lilac.....	128.03
32 93 33 00-0673	EA	42" B&B Syringa meyeri & cvs - Meyer Lilac.....	148.03
32 93 33 00-0674	EA	18" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac.....	88.02
32 93 33 00-0675	EA	24" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac.....	96.02
32 93 33 00-0676	EA	30" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac.....	110.02
32 93 33 00-0677	EA	36" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac.....	128.03
32 93 33 00-0678	EA	42" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac.....	148.03
32 93 33 00-0679	EA	60" B&B Syringa villosa & cvs - Late Lilac.....	70.02
32 93 33 00-0680	EA	72" B&B Syringa villosa & cvs - Late Lilac.....	76.02
32 93 33 00-0681	EA	36" B&B Syringa vulgaris & cvs - Common Lilac.....	60.01
32 93 33 00-0682	EA	42" B&B Syringa vulgaris & cvs - Common Lilac.....	68.01
32 93 33 00-0683	EA	48" B&B Syringa vulgaris & cvs - Common Lilac.....	76.02
32 93 33 00-0684	EA	60" B&B Syringa vulgaris & cvs - Common Lilac.....	88.02
32 93 33 00-0685	EA	72" B&B Syringa vulgaris & cvs - Common Lilac.....	108.02
32 93 33 00-0686	EA	5 Gallon Syringa x chinensis & cvs - Chinese Lilac.....	50.01
32 93 33 00-0687	EA	36" B&B Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	58.01



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
32 93 33 00-0688	EA	48" B&B Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	76.02		
32 93 33 00-0689	EA	48" B&B Taxus cuspidata capitata - Capitata Japanese Yew.....	318.07		
32 93 33 00-0690	EA	54" B&B Taxus cuspidata capitata - Capitata Japanese Yew.....	356.08		
32 93 33 00-0691	EA	60" B&B Taxus cuspidata capitata - Capitata Japanese Yew.....	392.09		
32 93 33 00-0692	EA	72" B&B Taxus cuspidata capitata - Capitata Japanese Yew.....	472.10		
32 93 33 00-0693	EA	18" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	84.02		
32 93 33 00-0694	EA	24" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	110.02		
32 93 33 00-0695	EA	30" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	128.03		
32 93 33 00-0696	EA	36" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	140.03		
32 93 33 00-0697	EA	15" B&B Taxus x media & cvs - Anglojap Yew.....	84.02		
32 93 33 00-0698	EA	18" B&B Taxus x media & cvs - Anglojap Yew.....	110.02		
32 93 33 00-0699	EA	24" B&B Taxus x media & cvs - Anglojap Yew.....	130.03		
32 93 33 00-0700	EA	30" B&B Taxus x media & cvs - Anglojap Yew.....	154.03		
32 93 33 00-0701	EA	36" B&B Taxus x media & cvs - Anglojap Yew.....	232.05		
32 93 33 00-0702	EA	36" B&B Thuja occidentalis & cvs - Upright Arborvitae.....	128.03		
32 93 33 00-0703	EA	48" B&B Thuja occidentalis & cvs - Upright Arborvitae.....	172.04		
32 93 33 00-0704	EA	60" B&B Thuja occidentalis & cvs - Upright Arborvitae.....	260.06		
32 93 33 00-0705	EA	72" B&B Thuja occidentalis & cvs - Upright Arborvitae.....	380.08		
32 93 33 00-0706	EA	84" B&B Thuja occidentalis & cvs - Upright Arborvitae.....	436.09		
32 93 33 00-0707	EA	96" B&B Thuja occidentalis & cvs - Upright Arborvitae.....	506.11		
32 93 33 00-0708	EA	15" B&B Thuja occidentalis cvs - Dwarf Arborvitae.....	56.01		
32 93 33 00-0709	EA	18" B&B Thuja occidentalis cvs - Dwarf Arborvitae.....	78.02		
32 93 33 00-0710	EA	24" B&B Thuja occidentalis cvs - Dwarf Arborvitae.....	110.02		
32 93 33 00-0711	EA	3' To 4' Viburnum dilatatum - Linden Viburnum.....	95.63		
32 93 33 00-0712	EA	4' To 5' Viburnum dilatatum - Linden Viburnum.....	145.92		
32 93 33 00-0713	EA	5' To 6' Viburnum dilatatum - Linden Viburnum.....	191.48		
32 93 33 00-0714	EA	1 Gallon Viburnum japonicum - Japanese Viburnum.....	11.60		
32 93 33 00-0715	EA	3 Gallon Viburnum japonicum - Japanese Viburnum.....	31.81		
32 93 33 00-0716	EA	5 Gallon Viburnum plicatum - Japanese Snowball.....	57.16		
32 93 33 00-0717	EA	5' To 6' Viburnum plicatum - Japanese Snowball.....	214.26		
32 93 33 00-0718	EA	2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	100.36		
32 93 33 00-0719	EA	3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	118.41		
32 93 33 00-0720	EA	4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	166.55		
32 93 33 00-0721	EA	30" B&B Viburnum burkwoodii & cvs - Burkwood Viburnum.....	110.02		
32 93 33 00-0722	EA	36" B&B Viburnum burkwoodii & cvs - Burkwood Viburnum.....	132.03		
32 93 33 00-0723	EA	24" B&B Viburnum carlesii & cvs - Korean Spice Viburnum.....	100.02		
32 93 33 00-0724	EA	30" B&B Viburnum carlesii & cvs - Korean Spice Viburnum.....	120.03		
32 93 33 00-0725	EA	36" B&B Viburnum carlesii & cvs - Korean Spice Viburnum.....	140.03		
32 93 33 00-0726	EA	42" B&B Viburnum carlesii & cvs - Korean Spice Viburnum.....	160.03		
32 93 33 00-0727	EA	1 Gallon Viburnum davidii - David Viburnum.....	5.11		
32 93 33 00-0728	EA	5 Gallon Viburnum davidii - David Viburnum.....	12.65		
32 93 33 00-0729	EA	36" B&B Viburnum dentatum & cvs - Arrowwood Viburnum.....	56.01		
32 93 33 00-0730	EA	42" B&B Viburnum dentatum & cvs - Arrowwood Viburnum.....	60.01		
32 93 33 00-0731	EA	48" B&B Viburnum dentatum & cvs - Arrowwood Viburnum.....	70.02		
32 93 33 00-0732	EA	60" B&B Viburnum dentatum & cvs - Arrowwood Viburnum.....	80.02		
32 93 33 00-0733	EA	72" B&B Viburnum dentatum & cvs - Arrowwood Viburnum.....	88.02		
32 93 33 00-0734	EA	30" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum.....	54.01		
32 93 33 00-0735	EA	36" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum.....	60.01		
32 93 33 00-0736	EA	42" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum.....	70.02		
32 93 33 00-0737	EA	48" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum.....	88.02		
32 93 33 00-0738	EA	60" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum.....	120.03		
32 93 33 00-0739	EA	72" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum.....	144.03		
32 93 33 00-0740	EA	36" B&B Viburnum lentago & cvs - Nannyberry Viburnum.....	60.01		
32 93 33 00-0741	EA	48" B&B Viburnum lentago & cvs - Nannyberry Viburnum.....	80.02		
32 93 33 00-0742	EA	5' B&B Viburnum lentago & cvs - Nannyberry Viburnum.....	100.02		
32 93 33 00-0743	EA	6' B&B Viburnum lentago & cvs - Nannyberry Viburnum.....	140.03		
32 93 33 00-0744	EA	7' B&B Viburnum lentago & cvs - Nannyberry Viburnum.....	200.04		
32 93 33 00-0745	EA	8' B&B Viburnum lentago & cvs - Nannyberry Viburnum.....	280.06		
32 93 33 00-0746	EA	9' B&B Viburnum lentago & cvs - Nannyberry Viburnum.....	360.08		
32 93 33 00-0747	EA	30" B&B Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	72.02		
32 93 33 00-0748	EA	36" B&B Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	80.02		
32 93 33 00-0749	EA	36" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum.....	144.03		
32 93 33 00-0750	EA	48" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum.....	220.05		
32 93 33 00-0751	EA	60" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum.....	280.06		
32 93 33 00-0752	EA	72" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum.....	340.07		
32 93 33 00-0753	EA	84" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum.....	420.09		
32 93 33 00-0754	EA	96" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum.....	500.11		
32 93 33 00-0755	EA	108" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum.....	600.13		
32 93 33 00-0756	EA	120" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum.....	700.15		
32 93 33 00-0757	EA	30" B&B Viburnum sargentii & cvs - Sargent Viburnum.....	61.01		
32 93 33 00-0758	EA	36" B&B Viburnum sargentii & cvs - Sargent Viburnum.....	67.01		
32 93 33 00-0759	EA	48" B&B Viburnum sargentii & cvs - Sargent Viburnum.....	76.02		
32 93 33 00-0760	EA	60" B&B Viburnum sargentii & cvs - Sargent Viburnum.....	88.02		
32 93 33 00-0761	EA	72" B&B Viburnum sargentii & cvs - Sargent Viburnum.....	101.02		
32 93 33 00-0762	EA	18" B&B Viburnum trilobum & cvs - American Cranberry Viburnum.....	58.01		
32 93 33 00-0763	EA	24" B&B Viburnum trilobum & cvs - American Cranberry Viburnum.....	70.02		
32 93 33 00-0764	EA	30" B&B Viburnum trilobum & cvs - American Cranberry Viburnum.....	84.02		
32 93 33 00-0765	EA	36" B&B Viburnum trilobum & cvs - American Cranberry Viburnum.....	96.02		
32 93 33 00-0766	EA	42" B&B Viburnum trilobum & cvs - American Cranberry Viburnum.....	116.03		
32 93 33 00-0767	EA	48" B&B Viburnum trilobum & cvs - American Cranberry Viburnum.....	128.03		
32 93 33 00-0768	EA	30" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum.....	100.02		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0769 EA 36" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	120.03	
32 93 33 00-0770 EA 42" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	140.03	
32 93 33 00-0771 EA 48" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	160.03	
32 93 33 00-0772 EA 60" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	180.04	
32 93 33 00-0773 EA 30" B&B Viburnum x juddii & cvs - Judd Viburnum	128.03	
32 93 33 00-0774 EA 36" B&B Viburnum x juddii & cvs - Judd Viburnum	144.03	
32 93 33 00-0775 EA 42" B&B Viburnum x juddii & cvs - Judd Viburnum	164.04	
32 93 33 00-0776 EA 48" B&B Viburnum x juddii & cvs - Judd Viburnum	188.04	
32 93 33 00-0777 EA 2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball	118.41	
32 93 33 00-0778 EA 3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball	145.92	
32 93 33 00-0779 EA 4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball	214.26	
32 93 33 00-0780 EA 5 Gallon Weigela florida & cvs - Old Fashioned Weigela	66.01	
32 93 33 00-0781 EA 24" B&B Weigela florida & cvs - Old Fashioned Weigela	60.01	
32 93 33 00-0782 EA 30" B&B Weigela florida & cvs - Old Fashioned Weigela	68.01	
32 93 33 00-0783 EA 36" B&B Weigela florida & cvs - Old Fashioned Weigela	76.02	
32 93 33 00-0784 EA 42" B&B Weigela florida & cvs - Old Fashioned Weigela	88.02	
32 93 33 00-0785 EA 48" B&B Weigela florida & cvs - Old Fashioned Weigela	100.02	
32 93 33 00-0786 EA 1 Gallon Xylosma congestum - Shiny Xylosma	13.75	
32 93 33 00-0787 EA 5 Gallon Xylosma congestum - Shiny Xylosma	38.90	
32 93 33 00-0788 EA 15 Gallon Xylosma congestum - Shiny Xylosma	171.06	
32 93 33 00-0789 EA 1 Gallon Yucca aloifolia - Spanish Bayonet	11.60	
32 93 33 00-0790 EA 3 Gallon Yucca aloifolia - Spanish Bayonet	30.73	
32 93 33 00-0791 EA 1 Gallon Yucca filamentosa - Adams Needle	16.12	
32 93 33 00-0792 EA 3 Gallon Yucca filamentosa - Adams Needle	31.37	
32 93 33 00-0793 EA 5 Gallon Yucca filamentosa - Adams Needle	49.64	
32 93 33 00-0794 EA 5 Gallon Border Forsythia - Goldenbells	55.23	
32 93 33 00-0795 EA 2' To 3' Border Forsythia - Goldenbells	45.56	
32 93 33 00-0796 EA 3' To 4' Border Forsythia - Goldenbells	57.59	
32 93 33 00-0797 EA 4' To 5' Border Forsythia - Goldenbells	71.78	
32 93 33 00-0798 EA 5' To 6' Border Forsythia - Goldenbells	86.18	
32 93 33 00-0799 EA 6' To 8' Border Forsythia - Goldenbells	118.41	
32 93 33 00-0800 EA 3' Juniperus chinensis - Columnar Chinese Juniper	117.33	
32 93 33 00-0801 EA 4' Juniperus chinensis - Columnar Chinese Juniper	161.04	
32 93 33 00-0802 EA 5' Juniperus chinensis - Columnar Chinese Juniper	253.06	
32 93 33 00-0803 EA 6' Juniperus chinensis - Columnar Chinese Juniper	294.46	
32 93 33 00-0804 EA 7' Juniperus chinensis - Columnar Chinese Juniper	386.48	
32 93 33 00-0805 EA 2 Gallon Chrysobalanus icaco - Cocoplum Red Tip	23.00	
32 93 33 00-0806 EA 3 Gallon Chrysobalanus icaco - Cocoplum Red Tip	32.21	
32 93 33 00-0807 EA 5 Gallon Chrysobalanus icaco - Cocoplum Red Tip	77.99	
32 93 33 00-0808 EA 2 Gallon Chrysobalanus icaco - Cocoplum Green Tip	23.00	
32 93 33 00-0809 EA 3 Gallon Chrysobalanus icaco - Cocoplum Green Tip	32.21	

32 93 43 Trees ^(32 93)

Note: (cvs = cultivar) materials only. See CSI section 32 93 53 00-0001 for installation and planting of trees.

32 93 43 00-0001 Ornamental Trees ^(32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002 EA 6' Clump Form Acer ginnala & cvs - Amur Maple	304.54	
32 93 43 00-0003 EA 7' Clump Form Acer ginnala & cvs - Amur Maple	372.21	
32 93 43 00-0004 EA 8' Clump Form Acer ginnala & cvs - Amur Maple	422.97	
32 93 43 00-0005 EA 10' Clump Form Acer ginnala & cvs - Amur Maple	490.64	
32 93 43 00-0006 EA 12' Clump Form Acer ginnala & cvs - Amur Maple	558.32	
32 93 43 00-0007 EA 14' Clump Form Acer ginnala & cvs - Amur Maple	659.83	
32 93 43 00-0008 EA 1-1/2" To 2" Caliper Acer griseum - Paperbark Maple	245.00	
32 93 43 00-0009 EA 2" To 2-1/2" Caliper Acer griseum - Paperbark Maple	1,082.80	
32 93 43 00-0010 EA 2-1/2" To 3" Caliper Acer griseum - Paperbark Maple	1,353.50	
32 93 43 00-0011 EA 5' Clump Form Acer griseum - Paperbark Maple	270.70	
32 93 43 00-0012 EA 1-1/2" Caliper Aesculus californica - California Buckeye	676.75	
32 93 43 00-0013 EA 2" Caliper Aesculus californica - California Buckeye	879.77	
32 93 43 00-0014 EA 2-1/2" Caliper Aesculus californica - California Buckeye	1,015.12	
32 93 43 00-0015 EA 3" Caliper Aesculus californica - California Buckeye	1,150.47	
32 93 43 00-0016 EA 3-1/2" Caliper Aesculus californica - California Buckeye	1,353.50	
32 93 43 00-0017 EA 36" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry	160.03	
32 93 43 00-0018 EA 48" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry	200.04	
32 93 43 00-0019 EA 60" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry	248.05	
32 93 43 00-0020 EA 60" B&B Amelanchier arborea & cvs - Downy Serviceberry	200.04	
32 93 43 00-0021 EA 72" B&B Amelanchier arborea & cvs - Downy Serviceberry	240.05	
32 93 43 00-0022 EA 7' B&B Amelanchier arborea & cvs - Downy Serviceberry	280.06	
32 93 43 00-0023 EA 8' B&B Amelanchier arborea & cvs - Downy Serviceberry	320.07	
32 93 43 00-0024 EA 5' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	360.08	
32 93 43 00-0025 EA 6' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	400.09	
32 93 43 00-0026 EA 7' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	460.10	
32 93 43 00-0027 EA 8' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	520.11	
32 93 43 00-0028 EA 9' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	600.13	
32 93 43 00-0029 EA 7' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	460.10	
32 93 43 00-0030 EA 8' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	540.12	
32 93 43 00-0031 EA 9' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	620.13	
32 93 43 00-0032 EA 10' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	680.15	
32 93 43 00-0033 EA 30" B&B Amelanchier stolonifera & cvs - Running Serviceberry	160.03	
32 93 43 00-0034 EA 48" B&B Amelanchier stolonifera & cvs - Running Serviceberry	340.07	



Exterior Improvements	32	32
Planting	32 90	
Plants	32 93	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0035 EA 60" B&B Amelanchier stolonifera & cvs - Running Serviceberry.....	440.10	
32 93 43 00-0036 EA 2' To 4' Amelanchier - Juneberry	48.71	
32 93 43 00-0037 EA 4' To 5' Amelanchier - Juneberry	51.10	
32 93 43 00-0038 EA 5' To 6' Amelanchier - Juneberry	60.84	
32 93 43 00-0039 EA 6' To 8' Amelanchier - Juneberry	72.59	
32 93 43 00-0040 EA 6' Cercis occidentalis - Western Redbud	189.51	
32 93 43 00-0041 EA 8' Cercis occidentalis - Western Redbud	260.72	
32 93 43 00-0042 EA 2-1/2" Caliper Cercis occidentalis - Western Redbud	537.00	
32 93 43 00-0043 EA 3" Caliper Cercis occidentalis - Western Redbud	653.74	
32 93 43 00-0044 EA 2' To 3' Magnolia virginiana - Sweetbay Magnolia	64.13	
32 93 43 00-0045 EA 3' To 4' Magnolia virginiana - Sweetbay Magnolia	96.19	
32 93 43 00-0046 EA 4' To 5' Magnolia virginiana - Sweetbay Magnolia	120.24	
32 93 43 00-0047 EA 5' To 6' Magnolia virginiana - Sweetbay Magnolia	149.76	
32 93 43 00-0048 EA 4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	253.78	
32 93 43 00-0049 EA 5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	338.37	
32 93 43 00-0050 EA 6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	439.89	
32 93 43 00-0051 EA 7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	490.64	
32 93 43 00-0052 EA 8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	592.15	
32 93 43 00-0053 EA 9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	659.83	
32 93 43 00-0054 EA 4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	253.78	
32 93 43 00-0055 EA 5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	338.37	
32 93 43 00-0056 EA 6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	439.89	
32 93 43 00-0057 EA 7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	490.64	
32 93 43 00-0058 EA 8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	592.15	
32 93 43 00-0059 EA 9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	659.83	
32 93 43 00-0060 EA 1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	5.85	
32 93 43 00-0061 EA 5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	24.78	
32 93 43 00-0062 EA 20 Gallon Prunus subhirtella - Flowering Cherry	237.93	
32 93 43 00-0063 EA 1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry	245.94	
32 93 43 00-0064 EA 2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry	307.40	
32 93 43 00-0065 EA 3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry	641.51	
32 93 43 00-0066 EA 3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry	494.43	
32 93 43 00-0067 EA 4" To 5" Caliper Prunus subhirtella - Flowering Cherry	962.27	
32 93 43 00-0068 EA 5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	61.46	
32 93 43 00-0069 EA 15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	168.33	
32 93 43 00-0070 EA 20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	219.23	
32 93 43 00-0071 EA 5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	69.47	
32 93 43 00-0072 EA 6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	133.60	
32 93 43 00-0073 EA 1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	245.94	
32 93 43 00-0074 EA 2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	294.04	
32 93 43 00-0075 EA 1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry	192.51	
32 93 43 00-0076 EA 1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry	160.31	
32 93 43 00-0077 EA 1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry	235.13	
32 93 43 00-0078 EA 2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry	280.68	
32 93 43 00-0079 EA 2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry	360.84	
32 93 43 00-0080 EA 15 Gallon Pyrus calleryana x 'Aristocrat' - Flowering Pear	185.76	
32 93 43 00-0081 EA 20 Gallon Pyrus calleryana x 'Aristocrat' - Flowering Pear	232.20	
32 93 43 00-0082 EA 1-1/2" To 2" Caliper Pyrus calleryana x 'Aristocrat' - Flowering Pear	241.49	
32 93 43 00-0083 EA 2" To 2-1/2" Caliper Pyrus calleryana x 'Aristocrat' - Flowering Pear	287.93	
32 93 43 00-0084 EA 2-1/2" To 3" Caliper Pyrus calleryana x 'Aristocrat' - Flowering Pear	390.10	
32 93 43 00-0085 EA 3" To 3-1/2" Caliper Pyrus calleryana x 'Aristocrat' - Flowering Pear	510.85	
32 93 43 00-0086 EA 3-1/2" To 4" Caliper Pyrus calleryana x 'Aristocrat' - Flowering Pear	650.16	
32 93 43 00-0087 EA 15 Gallon Pyrus calleryana x "Bradford" - Flowering Pear	185.76	
32 93 43 00-0088 EA 20 Gallon Pyrus calleryana x "Bradford" - Flowering Pear	232.20	
32 93 43 00-0089 EA 1-1/2" To 2" Caliper Pyrus calleryana x "Bradford" - Flowering Pear	157.90	
32 93 43 00-0090 EA 2" To 2-1/2" Caliper Pyrus calleryana x "Bradford" - Flowering Pear	241.49	
32 93 43 00-0091 EA 2-1/2" To 3" Caliper Pyrus calleryana x "Bradford" - Flowering Pear	287.68	
32 93 43 00-0092 EA 3" To 3-1/2" Caliper Pyrus calleryana x "Bradford" - Flowering Pear	390.10	
32 93 43 00-0093 EA 3-1/2" To 4" Caliper Pyrus calleryana x "Bradford" - Flowering Pear	510.85	
32 93 43 00-0094 EA 1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	338.37	
32 93 43 00-0095 EA 2" Caliper Pyrus calleryana & cvs - Callery Pear	422.97	
32 93 43 00-0096 EA 2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	524.48	
32 93 43 00-0097 EA 3" Caliper Pyrus calleryana & cvs - Callery Pear	592.15	
32 93 43 00-0098 EA 3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	659.83	
32 93 43 00-0099 EA 4" Caliper Pyrus calleryana & cvs - Callery Pear	845.93	
32 93 43 00-0100 EA 1 Gallon Ribes aureum - Golden Currant	5.12	
32 93 43 00-0101 EA 5 Gallon Ribes aureum - Golden Currant	14.64	
32 93 43 00-0102 EA 1 Gallon Ribes sanguineum - Red Flowering Currant	5.12	
32 93 43 00-0103 EA 5 Gallon Ribes sanguineum - Red Flowering Currant	14.64	
32 93 43 00-0104 EA 1 Gallon Ribes viburnifolium - Evergreen Currant	5.12	
32 93 43 00-0105 EA 5 Gallon Ribes viburnifolium - Evergreen Currant	14.64	
32 93 43 00-0106 EA 8' Cassia leptophylla - Gold Medallion Tree	214.38	
32 93 43 00-0107 EA 10' Cassia leptophylla - Gold Medallion Tree	272.10	
32 93 43 00-0108 EA 12' Cassia leptophylla - Gold Medallion Tree	329.82	
32 93 43 00-0109 EA 6' Magnolia grandiflora 'St. Mary's'	247.36	
32 93 43 00-0110 EA 8' Magnolia grandiflora 'St. Mary's'	437.01	
32 93 43 00-0111 EA 10' Magnolia grandiflora 'St. Mary's'	549.15	
32 93 43 00-0112 EA 12' Magnolia grandiflora 'St. Mary's'	659.64	
32 93 43 00-0113 EA 14' Magnolia grandiflora 'St. Mary's'	766.83	
32 93 43 00-0114 EA 16' Magnolia grandiflora 'St. Mary's'	907.00	
32 93 43 00-0115 EA 24" Box Magnolia grandiflora 'St. Mary's'	272.10	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0116 EA 6' Prunus cerasifera - Purple Leaf Plum.....	128.63	
32 93 43 00-0117 EA 8' Prunus cerasifera - Purple Leaf Plum.....	148.42	
32 93 43 00-0118 EA 10' Prunus cerasifera - Purple Leaf Plum.....	191.30	
32 93 43 00-0119 EA 24" Box Prunus cerasifera - Purple Leaf Plum.....	203.66	
32 93 43 00-0120 EA 30" Box Prunus cerasifera - Purple Leaf Plum.....	412.28	
32 93 43 00-0121 EA 36" Box Prunus cerasifera - Purple Leaf Plum.....	632.43	
32 93 43 00-0122 EA 6' Pittosporum phillyraeoides - Willow Pittorporum.....	268.80	
32 93 43 00-0123 EA 8' Pittosporum phillyraeoides - Willow Pittorporum.....	384.24	
32 93 43 00-0124 EA 10' Pittosporum phillyraeoides - Willow Pittorporum.....	460.10	
32 93 43 00-0125 EA 12' Pittosporum phillyraeoides - Willow Pittorporum.....	593.68	
32 93 43 00-0126 EA 6' Stenocarpus sinuatus - Firewheel Tree.....	395.78	
32 93 43 00-0127 EA 8' Stenocarpus sinuatus - Firewheel Tree.....	527.71	
32 93 43 00-0128 EA 10' Stenocarpus sinuatus - Firewheel Tree.....	659.64	
32 93 43 00-0129 EA 12' Stenocarpus sinuatus - Firewheel Tree.....	791.57	
32 93 43 00-0130 EA 24" Box Tabebuia ipi - Pink Trumpet.....	384.24	
32 93 43 00-0131 EA 36" Box Tabebuia ipi - Pink Trumpet.....	1,022.44	
32 93 43 00-0132 EA 1-1/2" Caliper Arbutus menziesii - Madrona.....	286.80	
32 93 43 00-0133 EA 2" Caliper Arbutus menziesii - Madrona.....	372.84	
32 93 43 00-0134 EA 2-1/2" Caliper Arbutus menziesii - Madrona.....	430.20	
32 93 43 00-0135 EA 3" Caliper Arbutus menziesii - Madrona.....	487.56	
32 93 43 00-0136 EA 3-1/2" Caliper Arbutus menziesii - Madrona.....	573.60	
32 93 43 00-0137 EA 1-1/2" Caliper Koelreuteria bipinnata - Chinese Lantern.....	197.89	
32 93 43 00-0138 EA 2" Caliper Koelreuteria bipinnata - Chinese Lantern.....	321.57	
32 93 43 00-0139 EA 2-1/2" Caliper Koelreuteria bipinnata - Chinese Lantern.....	395.78	
32 93 43 00-0140 EA 3" Caliper Koelreuteria bipinnata - Chinese Lantern.....	437.01	
32 93 43 00-0141 EA 24" Box Koelreuteria bipinnata - Chinese Lantern.....	192.94	
32 93 43 00-0142 EA 30" Box Koelreuteria bipinnata - Chinese Lantern.....	445.26	
32 93 43 00-0143 EA 36" Box Koelreuteria bipinnata - Chinese Lantern.....	696.74	
32 93 43 00-0144 EA 1-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	179.75	
32 93 43 00-0145 EA 2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	291.89	
32 93 43 00-0146 EA 2-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	357.85	
32 93 43 00-0147 EA 3" Cliber Koelreuteria paniculata - Golden Rain Tree.....	404.03	
32 93 43 00-0148 EA 6' Magnolia grandiflora - Southern Magnolia.....	122.03	
32 93 43 00-0149 EA 7' Magnolia grandiflora - Southern Magnolia.....	184.70	
32 93 43 00-0150 EA 8' Magnolia grandiflora - Southern Magnolia.....	258.91	
32 93 43 00-0151 EA 9' Magnolia grandiflora - Southern Magnolia.....	344.66	
32 93 43 00-0152 EA 10' Magnolia grandiflora - Southern Magnolia.....	524.41	
32 93 43 00-0153 EA 24" Box Magnolia grandiflora - Southern Magnolia.....	214.38	
32 93 43 00-0154 EA 1-1/2" Caliper Tipuana tipu - Tipu Tree.....	255.61	
32 93 43 00-0155 EA 2" Caliper Tipuana tipu - Tipu Tree.....	333.12	
32 93 43 00-0156 EA 2-1/2" Caliper Tipuana tipu - Tipu Tree.....	422.17	
32 93 43 00-0157 EA 3" Caliper Tipuana tipu - Tipu Tree.....	486.48	
32 93 43 00-0158 EA 3-1/2" Caliper Tipuana tipu - Tipu Tree.....	715.71	
32 93 43 00-0159 EA 4" Caliper Tipuana tipu - Tipu Tree.....	956.48	
32 93 43 00-0160 EA 24" Box Tipuana tipu - Tipu Tree.....	192.94	
32 93 43 00-0161 EA 6' Albizia julibrissin - Silk Tree.....	395.78	
32 93 43 00-0162 EA 8' Albizia julibrissin - Silk Tree.....	527.71	
32 93 43 00-0163 EA 10' Albizia julibrissin - Silk Tree.....	659.64	
32 93 43 00-0164 EA 12' Albizia julibrissin - Silk Tree.....	791.57	
32 93 43 00-0165 EA 6' Brachychiton acerifolius - Flame Tree.....	395.78	
32 93 43 00-0166 EA 8' Brachychiton acerifolius - Flame Tree.....	527.71	
32 93 43 00-0167 EA 10' Brachychiton acerifolius - Flame Tree.....	659.64	
32 93 43 00-0168 EA 12' Brachychiton acerifolius - Flame Tree.....	791.57	
32 93 43 00-0169 EA 1-1/2" Caliper Chilopsis linearis - Desert Willow.....	319.93	
32 93 43 00-0170 EA 2" Caliper Chilopsis linearis - Desert Willow.....	384.24	
32 93 43 00-0171 EA 2-1/2" Caliper Chilopsis linearis - Desert Willow.....	408.98	
32 93 43 00-0172 EA 3" Caliper Chilopsis linearis - Desert Willow.....	453.50	
32 93 43 00-0173 EA 5 Gallon Chionanthus retusus - Chinese Fringe Tree.....	16.49	
32 93 43 00-0174 EA 15 Gallon Chionanthus retusus - Chinese Fringe Tree.....	65.96	
32 93 43 00-0175 EA 24" Box Chionanthus retusus - Chinese Fringe Tree.....	329.82	
32 93 43 00-0176 EA 5 Gallon Calodendrum capense - Cape Chestnut.....	24.74	
32 93 43 00-0177 EA 15 Gallon Calodendrum capense - Cape Chestnut.....	98.95	
32 93 43 00-0178 EA 24" Box Calodendrum capense - Cape Chestnut.....	371.05	
32 93 43 00-0179 EA 6' Chionanthus virginicus - White Fringe Tree.....	197.89	
32 93 43 00-0180 EA 8' Chionanthus virginicus - White Fringe Tree.....	544.78	
32 93 43 00-0181 EA 10' Chionanthus virginicus - White Fringe Tree.....	758.80	
32 93 43 00-0182 EA 15 Gallon Geijera parvifolia - Australian Willow.....	233.48	
32 93 43 00-0183 EA 24" Box Geijera parvifolia - Australian Willow.....	480.58	
32 93 43 00-0184 EA 30" Box Geijera parvifolia - Australian Willow.....	895.00	
32 93 43 00-0185 EA 36" Box Geijera parvifolia - Australian Willow.....	1,284.13	
32 93 43 00-0186 EA 1-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	692.65	
32 93 43 00-0187 EA 2" Caliper Ginkgo Biloba - Maidenhair Tree.....	965.04	
32 93 43 00-0188 EA 2-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,163.50	
32 93 43 00-0189 EA 3" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,358.06	
32 93 43 00-0190 EA 3-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,778.32	
32 93 43 00-0191 EA 4" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,898.95	
32 93 43 00-0192 EA 4-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	2,023.48	
32 93 43 00-0193 EA 24" Box Ginkgo Biloba - Maidenhair Tree.....	632.34	
32 93 43 00-0194 EA 15 Gallon Sapium sebiferum - Chinese Tallow Tree.....	233.48	
32 93 43 00-0195 EA 24" Box Sapium sebiferum - Chinese Tallow Tree.....	856.09	
32 93 43 00-0196 EA 4' To 5' Lagerstroemia indica - Crape Myrtle.....	249.04	



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 93 43 00-0197	EA	6' Lagerstroemia indica - Crape Myrtle		463.06	
32 93 43 00-0198	EA	8' Lagerstroemia indica - Crape Myrtle		478.63	
32 93 43 00-0199	EA	10' Lagerstroemia indica - Crape Myrtle		579.80	
32 93 43 00-0200	EA	24" Box Lagerstroemia indica - Crape Myrtle		455.28	
32 93 43 00-0201	EA	5 Gallon Celtis Sinensis - Chinese Hackberry		24.20	
32 93 43 00-0202	EA	15 Gallon Celtis Sinensis - Chinese Hackberry		63.79	
32 93 43 00-0203	EA	24" Box Celtis Sinensis - Chinese Hackberry		208.98	
32 93 43 00-0204	EA	36" Box Celtis Sinensis - Chinese Hackberry		610.44	
32 93 43 00-0205	EA	5 Gallon Crataegus phaenopyrum - Washington Hawthorn.....		24.20	
32 93 43 00-0206	EA	15 Gallon Crataegus phaenopyrum - Washington Hawthorn.....		63.79	
32 93 43 00-0207	EA	24" Box Crataegus phaenopyrum - Washington Hawthorn.....		208.98	
32 93 43 00-0208	EA	36" Box Crataegus phaenopyrum - Washington Hawthorn.....		610.44	
32 93 43 00-0209	EA	1 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....		7.15	
32 93 43 00-0210	EA	5 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....		19.80	
32 93 43 00-0211	EA	15 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....		86.89	
32 93 43 00-0212	EA	24" Box Eucalyptus ficifolia - Red-Flowering Gum.....		208.98	
32 93 43 00-0213	EA	36" Box Eucalyptus ficifolia - Red-Flowering Gum.....		549.95	
32 93 43 00-0214	EA	15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash		53.90	
32 93 43 00-0215	EA	24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash		175.98	
32 93 43 00-0216	EA	36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash		467.46	
32 93 43 00-0217	EA	48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash		1,044.90	
32 93 43 00-0218	EA	5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust		15.40	
32 93 43 00-0219	EA	15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust		53.90	
32 93 43 00-0220	EA	24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust		175.98	
32 93 43 00-0221	EA	36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust		467.46	
32 93 43 00-0222	EA	48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust		1,044.90	
32 93 43 00-0223	EA	5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....		15.40	
32 93 43 00-0224	EA	15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....		64.89	
32 93 43 00-0225	EA	24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....		175.98	
32 93 43 00-0226	EA	36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....		494.96	
32 93 43 00-0227	EA	48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....		1,264.88	
32 93 43 00-0228	EA	5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....		15.40	
32 93 43 00-0229	EA	15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....		64.89	
32 93 43 00-0230	EA	24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum		175.98	
32 93 43 00-0231	EA	36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum		494.96	
32 93 43 00-0232	EA	48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum		1,264.88	
32 93 43 00-0233	EA	5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....		15.40	
32 93 43 00-0234	EA	15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....		64.89	
32 93 43 00-0235	EA	24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....		175.98	
32 93 43 00-0236	EA	36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....		494.96	
32 93 43 00-0237	EA	48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....		1,264.88	
32 93 43 00-0238	EA	1 Gallon Pittosporum undulatum - Victorian Box		4.95	
32 93 43 00-0239	EA	5 Gallon Pittosporum undulatum - Victorian Box		15.40	
32 93 43 00-0240	EA	15 Gallon Pittosporum undulatum - Victorian Box		64.89	
32 93 43 00-0241	EA	24" Box Pittosporum undulatum - Victorian Box		175.98	
32 93 43 00-0242	EA	36" Box Pittosporum undulatum - Victorian Box		494.96	
32 93 43 00-0243	EA	48" Box Pittosporum undulatum - Victorian Box		1,264.88	
32 93 43 00-0244	EA	15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....		54.94	
32 93 43 00-0245	EA	24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....		197.93	
32 93 43 00-0246	Shade Trees ^(32 93 43)				
Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.					
32 93 43 00-0247	EA	3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple		209.62	
32 93 43 00-0248	EA	4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple		256.96	
32 93 43 00-0249	EA	4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple		334.72	
32 93 43 00-0250	EA	5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple		433.90	
32 93 43 00-0251	EA	2' To 2-1/2' Acer palmatum - Japanese Maple.....		22.11	
32 93 43 00-0252	EA	4' To 5' Acer palmatum - Japanese Maple.....		46.43	
32 93 43 00-0253	EA	5' To 6' Acer palmatum - Japanese Maple.....		60.80	
32 93 43 00-0254	EA	6' To 7' Acer palmatum - Japanese Maple.....		110.55	
32 93 43 00-0255	EA	7' To 8' Acer palmatum - Japanese Maple.....		154.77	
32 93 43 00-0256	EA	8' To 10' Acer palmatum - Japanese Maple.....		198.99	
32 93 43 00-0257	EA	10' To 12' Acer palmatum - Japanese Maple.....		265.32	
32 93 43 00-0258	EA	2" Caliper Acer platanoides & cvs - Norway Maple.....		112.70	
32 93 43 00-0259	EA	2" Caliper Acer platanoides & cvs - Norway Maple.....		137.20	
32 93 43 00-0260	EA	3" Caliper Acer platanoides & cvs - Norway Maple.....		176.40	
32 93 43 00-0261	EA	3-1/2" Caliper Acer platanoides & cvs - Norway Maple.....		205.80	
32 93 43 00-0262	EA	4" Caliper Acer platanoides & cvs - Norway Maple.....		220.50	
32 93 43 00-0263	EA	4-1/2" Caliper Acer platanoides & cvs - Norway Maple.....		240.10	
32 93 43 00-0264	EA	5" Caliper Acer platanoides & cvs - Norway Maple.....		269.50	
32 93 43 00-0265	EA	2" Caliper Acer rubrum & cvs - Red Maple		107.80	
32 93 43 00-0266	EA	2-1/2" Caliper Acer rubrum & cvs - Red Maple		137.20	
32 93 43 00-0267	EA	3" Caliper Acer rubrum & cvs - Red Maple		176.40	
32 93 43 00-0268	EA	3-1/2" Caliper Acer rubrum & cvs - Red Maple		215.60	
32 93 43 00-0269	EA	4" Caliper Acer rubrum & cvs - Red Maple		245.00	
32 93 43 00-0270	EA	4-1/2" Caliper Acer rubrum & cvs - Red Maple		284.20	
32 93 43 00-0271	EA	5" Caliper Acer rubrum & cvs - Red Maple		318.50	
32 93 43 00-0272	EA	8' Clump Form Acer rubrum & cvs - Red Maple		132.30	
32 93 43 00-0273	EA	10' Clump Form Acer rubrum & cvs - Red Maple		176.40	

32 Exterior Improvements**32 90 Planting****32 93 Plants**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT
 UNIT COST
 DEMOLITION
 UNIT COST

32 93 43 00-0274	EA	12' Clump Form Acer rubrum & cvs - Red Maple.....	205.80	
32 93 43 00-0275	EA	14' Clump Form Acer rubrum & cvs - Red Maple.....	235.20	
32 93 43 00-0276	EA	16' Clump Form Acer rubrum & cvs - Red Maple.....	264.60	
32 93 43 00-0277	EA	18' Clump Form Acer rubrum & cvs - Red Maple.....	294.00	
32 93 43 00-0278	EA	2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	171.50	
32 93 43 00-0279	EA	2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	191.10	
32 93 43 00-0280	EA	3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	215.60	
32 93 43 00-0281	EA	3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	245.00	
32 93 43 00-0282	EA	4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	294.00	
32 93 43 00-0283	EA	2" Caliper Betula nigra - River Birch.....	122.50	
32 93 43 00-0284	EA	2-1/2" Caliper Betula nigra - River Birch.....	138.72	
32 93 43 00-0285	EA	3" Caliper Betula nigra - River Birch.....	156.80	
32 93 43 00-0286	EA	3-1/2" Caliper Betula nigra - River Birch.....	196.00	
32 93 43 00-0287	EA	4" Caliper Betula nigra - River Birch.....	220.50	
32 93 43 00-0288	EA	4-1/2" Caliper Betula nigra - River Birch.....	245.00	
32 93 43 00-0289	EA	5" Caliper Betula nigra - River Birch.....	269.50	
32 93 43 00-0290	EA	8' Clump Form Betula nigra - River Birch.....	112.70	
32 93 43 00-0291	EA	10' Clump Form Betula nigra - River Birch.....	127.40	
32 93 43 00-0292	EA	12' Clump Form Betula nigra - River Birch.....	147.00	
32 93 43 00-0293	EA	14' Clump Form Betula nigra - River Birch.....	171.50	
32 93 43 00-0294	EA	16' Clump Form Betula nigra - River Birch.....	196.00	
32 93 43 00-0295	EA	12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	147.00	
32 93 43 00-0296	EA	14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	176.40	
32 93 43 00-0297	EA	16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	205.80	
32 93 43 00-0298	EA	18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	245.00	
32 93 43 00-0299	EA	20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	254.80	
32 93 43 00-0300	EA	2" Caliper Carpinus betulus & cvs - European Hornbeam.....	196.00	
32 93 43 00-0301	EA	2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	220.50	
32 93 43 00-0302	EA	3" Caliper Carpinus betulus & cvs - European Hornbeam.....	254.80	
32 93 43 00-0303	EA	3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	308.70	
32 93 43 00-0304	EA	6' Clump Form Carpinus betulus & cvs - European Hornbeam.....	88.20	
32 93 43 00-0305	EA	7' Clump Form Carpinus betulus & cvs - European Hornbeam.....	122.50	
32 93 43 00-0306	EA	8' Clump Form Carpinus betulus & cvs - European Hornbeam.....	151.90	
32 93 43 00-0307	EA	2" Caliper Catalpa speciosa - Western Catalpa.....	107.80	
32 93 43 00-0308	EA	2-1/2" Caliper Catalpa speciosa - Western Catalpa.....	147.00	
32 93 43 00-0309	EA	3" Caliper Catalpa speciosa - Western Catalpa.....	191.10	
32 93 43 00-0310	EA	3-1/2" Caliper Catalpa speciosa - Western Catalpa.....	230.30	
32 93 43 00-0311	EA	4" Caliper Catalpa speciosa - Western Catalpa.....	264.60	
32 93 43 00-0312	EA	8' Clump Form Corylus cornuta californica - Western Filbert.....	137.20	
32 93 43 00-0313	EA	10' Clump Form Corylus cornuta californica - Western Filbert.....	166.60	
32 93 43 00-0314	EA	12' Clump Form Corylus cornuta californica - Western Filbert.....	196.00	
32 93 43 00-0315	EA	1-1/2" Caliper Diospyros - Persimmon.....	88.20	
32 93 43 00-0316	EA	2" Caliper Diospyros - Persimmon.....	107.80	
32 93 43 00-0317	EA	2-1/2" Caliper Diospyros - Persimmon.....	137.20	
32 93 43 00-0318	EA	3" Caliper Diospyros - Persimmon.....	171.50	
32 93 43 00-0319	EA	3-1/2" Caliper Diospyros - Persimmon.....	205.80	
32 93 43 00-0320	EA	2" Caliper Fagus sylvatica & cvs - European Beech.....	220.50	
32 93 43 00-0321	EA	2-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	264.60	
32 93 43 00-0322	EA	3" Caliper Fagus sylvatica & cvs - European Beech.....	318.50	
32 93 43 00-0323	EA	3-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	352.80	
32 93 43 00-0324	EA	4" Caliper Fagus sylvatica & cvs - European Beech.....	416.50	
32 93 43 00-0325	EA	4-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	539.00	
32 93 43 00-0326	EA	5" Caliper Fagus sylvatica & cvs - European Beech.....	637.00	
32 93 43 00-0327	EA	2" Caliper Fraxinus americana & cvs - White Ash.....	122.50	
32 93 43 00-0328	EA	2-1/2" Caliper Fraxinus americana & cvs - White Ash.....	147.00	
32 93 43 00-0329	EA	3" Caliper Fraxinus americana & cvs - White Ash.....	186.20	
32 93 43 00-0330	EA	3-1/2" Caliper Fraxinus americana & cvs - White Ash.....	225.40	
32 93 43 00-0331	EA	4" Caliper Fraxinus americana & cvs - White Ash.....	264.60	
32 93 43 00-0332	EA	4-1/2" Caliper Fraxinus americana & cvs - White Ash.....	294.00	
32 93 43 00-0333	EA	5" Caliper Fraxinus americana & cvs - White Ash.....	343.00	
32 93 43 00-0334	EA	1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	171.50	
32 93 43 00-0335	EA	2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	191.10	
32 93 43 00-0336	EA	2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	215.60	
32 93 43 00-0337	EA	3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	240.10	
32 93 43 00-0338	EA	3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	269.50	
32 93 43 00-0339	EA	4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	294.00	
32 93 43 00-0340	EA	4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	441.00	
32 93 43 00-0341	EA	5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	490.00	
32 93 43 00-0342	EA	2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	117.60	
32 93 43 00-0343	EA	2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	147.00	
32 93 43 00-0344	EA	3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	176.40	
32 93 43 00-0345	EA	3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	205.80	
32 93 43 00-0346	EA	4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	235.20	
32 93 43 00-0347	EA	4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	264.60	
32 93 43 00-0348	EA	5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	313.60	
32 93 43 00-0349	EA	10' - 12' Bursera Simaruba - Gumbo Limbo.....	61.98	
32 93 43 00-0350	EA	12' - 14' Bursera Simaruba - Gumbo Limbo.....	73.26	
32 93 43 00-0351	EA	14' - 16' Bursera Simaruba - Gumbo Limbo.....	101.43	
32 93 43 00-0352	EA	17' - 18' Bursera Simaruba - Gumbo Limbo.....	131.86	
32 93 43 00-0353	EA	19' - 20' Bursera Simaruba - Gumbo Limbo.....	146.51	
32 93 43 00-0354	EA	21' - 22' Bursera Simaruba - Gumbo Limbo.....	173.56	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0355	EA	1-1/2" Caliper Juglans californica - California Walnut	117.60		
32 93 43 00-0356	EA	2" Caliper Juglans californica - California Walnut	137.20		
32 93 43 00-0357	EA	2-1/2" Caliper Juglans californica - California Walnut	171.50		
32 93 43 00-0358	EA	3" Caliper Juglans californica - California Walnut	215.60		
32 93 43 00-0359	EA	3-1/2" Caliper Juglans californica - California Walnut	264.60		
32 93 43 00-0360	EA	4" Caliper Juglans californica - California Walnut	318.50		
32 93 43 00-0361	EA	4-1/2" Caliper Juglans californica - California Walnut	367.50		
32 93 43 00-0362	EA	5" Caliper Juglans californica - California Walnut	416.50		
32 93 43 00-0363	EA	5 Gallon Koelreuteria Paniculata - Goldenrain Tree	13.27		
32 93 43 00-0364	EA	15 Gallon Koelreuteria Paniculata - Goldenrain Tree	33.16		
32 93 43 00-0365	EA	20 Gallon Koelreuteria Paniculata - Goldenrain Tree	66.33		
32 93 43 00-0366	EA	55 Gallon Koelreuteria Paniculata - Goldenrain Tree	86.23		
32 93 43 00-0367	EA	1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree	63.01		
32 93 43 00-0368	EA	2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree	76.28		
32 93 43 00-0369	EA	2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree	106.13		
32 93 43 00-0370	EA	1-1/2" Caliper Liquidambar styraciflua - American Sweetgum	156.80		
32 93 43 00-0371	EA	2" Caliper Liquidambar styraciflua - American Sweetgum	196.00		
32 93 43 00-0372	EA	2-1/2" Caliper Liquidambar styraciflua - American Sweetgum	245.00		
32 93 43 00-0373	EA	3" Caliper Liquidambar styraciflua - American Sweetgum	294.00		
32 93 43 00-0374	EA	3-1/2" Caliper Liquidambar styraciflua - American Sweetgum	343.00		
32 93 43 00-0375	EA	1-1/2" Caliper Liriodendron tulipifera - Tulip Tree	156.80		
32 93 43 00-0376	EA	2" Caliper Liriodendron tulipifera - Tulip Tree	215.60		
32 93 43 00-0377	EA	2-1/2" Caliper Liriodendron tulipifera - Tulip Tree	254.80		
32 93 43 00-0378	EA	3" Caliper Liriodendron tulipifera - Tulip Tree	294.00		
32 93 43 00-0379	EA	3-1/2" Caliper Liriodendron tulipifera - Tulip Tree	333.20		
32 93 43 00-0380	EA	8' Clump Form Liriodendron tulipifera - Tulip Tree	117.60		
32 93 43 00-0381	EA	10' Clump Form Liriodendron tulipifera - Tulip Tree	210.70		
32 93 43 00-0382	EA	12' Clump Form Liriodendron tulipifera - Tulip Tree	254.80		
32 93 43 00-0383	EA	1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	156.80		
32 93 43 00-0384	EA	2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	196.00		
32 93 43 00-0385	EA	2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	245.00		
32 93 43 00-0386	EA	3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	294.00		
32 93 43 00-0387	EA	3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	343.00		
32 93 43 00-0388	EA	4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	68.60		
32 93 43 00-0389	EA	5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	78.40		
32 93 43 00-0390	EA	6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	93.10		
32 93 43 00-0391	EA	7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	117.60		
32 93 43 00-0392	EA	8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	147.00		
32 93 43 00-0393	EA	30" Box Platanus Occidentalis - Buttonwood Sycamore	212.88		
32 93 43 00-0394	EA	36" Box Platanus Occidentalis - Buttonwood Sycamore	309.65		
32 93 43 00-0395	EA	42" Box Platanus occidentalis - Buttonwood Sycamore	460.62		
32 93 43 00-0396	EA	1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore	71.23		
32 93 43 00-0397	EA	2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	85.16		
32 93 43 00-0398	EA	2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore	116.11		
32 93 43 00-0399	EA	3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	140.91		
32 93 43 00-0400	EA	8' To 10' Platanus occidentalis - Green Or Silver Buttonwood	58.60		
32 93 43 00-0401	EA	10' To 12' Platanus occidentalis - Green Or Silver Buttonwood	73.26		
32 93 43 00-0402	EA	12' To 14' Platanus occidentalis - Green Or Silver Buttonwood	129.60		
32 93 43 00-0403	EA	16' To 18' Platanus occidentalis - Green Or Silver Buttonwood	185.96		
32 93 43 00-0404	EA	2" Caliper Platanus x acerifolia & cvs - London Planetree	117.60		
32 93 43 00-0405	EA	2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree	142.10		
32 93 43 00-0406	EA	3" Caliper Platanus x acerifolia & cvs - London Planetree	171.50		
32 93 43 00-0407	EA	3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree	205.80		
32 93 43 00-0408	EA	4" Caliper Platanus x acerifolia & cvs - London Planetree	245.00		
32 93 43 00-0409	EA	2" Caliper Populus alba & cvs - White Poplar	117.60		
32 93 43 00-0410	EA	2-1/2" Caliper Populus alba & cvs - White Poplar	137.20		
32 93 43 00-0411	EA	3" Caliper Populus alba & cvs - White Poplar	156.80		
32 93 43 00-0412	EA	3-1/2" Caliper Populus alba & cvs - White Poplar	186.20		
32 93 43 00-0413	EA	4" Caliper Populus alba & cvs - White Poplar	205.80		
32 93 43 00-0414	EA	4-1/2" Caliper Populus alba & cvs - White Poplar	235.20		
32 93 43 00-0415	EA	2" Caliper Populus deltoides & cvs - Eastern Cottonwood	107.80		
32 93 43 00-0416	EA	2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	142.10		
32 93 43 00-0417	EA	3" Caliper Populus deltoides & cvs - Eastern Cottonwood	171.50		
32 93 43 00-0418	EA	3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	205.80		
32 93 43 00-0419	EA	4" Caliper Populus deltoides & cvs - Eastern Cottonwood	245.00		
32 93 43 00-0420	EA	2" Caliper Quercus palustris - Pin Oak	107.80		
32 93 43 00-0421	EA	2-1/2" Caliper Quercus palustris - Pin Oak	147.00		
32 93 43 00-0422	EA	3" Caliper Quercus palustris - Pin Oak	191.10		
32 93 43 00-0423	EA	3-1/2" Caliper Quercus palustris - Pin Oak	220.50		
32 93 43 00-0424	EA	4" Caliper Quercus palustris - Pin Oak	254.80		
32 93 43 00-0425	EA	4-1/2" Caliper Quercus palustris - Pin Oak	289.10		
32 93 43 00-0426	EA	5" Caliper Quercus palustris - Pin Oak	318.50		
32 93 43 00-0427	EA	2" Caliper Quercus shumardii - Shumard Oak	166.60		
32 93 43 00-0428	EA	2-1/2" Caliper Quercus shumardii - Shumard Oak	210.70		
32 93 43 00-0429	EA	3" Caliper Quercus shumardii - Shumard Oak	245.00		
32 93 43 00-0430	EA	3-1/2" Caliper Quercus shumardii - Shumard Oak	294.00		
32 93 43 00-0431	EA	4" Caliper Quercus shumardii - Shumard Oak	343.00		
32 93 43 00-0432	EA	4-1/2" Caliper Quercus shumardii - Shumard Oak	392.00		
32 93 43 00-0433	EA	5" Caliper Quercus shumardii - Shumard Oak	441.00		
32 93 43 00-0434	EA	24" Box Salix babylonica - Weeping Willow	123.85		
32 93 43 00-0435	EA	36" Box Salix babylonica - Weeping Willow	309.65		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0436 EA 1-1/2" To 2" Caliper Salix babylonica - Weeping Willow	71.23	
32 93 43 00-0437 EA 2" To 2-1/2" Caliper Salix babylonica - Weeping Willow	85.16	
32 93 43 00-0438 EA 2-1/2" To 3" Caliper Salix babylonica - Weeping Willow	92.90	
32 93 43 00-0439 EA 2' Thuja occidentalis - American Arborvitae	16.79	
32 93 43 00-0440 EA 2-1/2' Thuja occidentalis - American Arborvitae	18.14	
32 93 43 00-0441 EA 3' Thuja occidentalis - American Arborvitae	25.92	
32 93 43 00-0442 EA 4' Thuja occidentalis - American Arborvitae	35.61	
32 93 43 00-0443 EA 5' Thuja occidentalis - American Arborvitae	49.59	
32 93 43 00-0444 EA 6' Thuja occidentalis - American Arborvitae	68.75	
32 93 43 00-0445 EA 7' Thuja occidentalis - American Arborvitae	83.40	
32 93 43 00-0446 EA 8' Thuja occidentalis - American Arborvitae	117.21	
32 93 43 00-0447 EA 2" Caliper Tilia cordata & cvs - Littleleaf Linden	123.24	
32 93 43 00-0448 EA 2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	148.86	
32 93 43 00-0449 EA 3" Caliper Tilia cordata & cvs - Littleleaf Linden	171.50	
32 93 43 00-0450 EA 3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	210.70	
32 93 43 00-0451 EA 4" Caliper Tilia cordata & cvs - Littleleaf Linden	240.10	
32 93 43 00-0452 EA 4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	269.50	
32 93 43 00-0453 EA 5" Caliper Tilia cordata & cvs - Littleleaf Linden	298.90	
32 93 43 00-0454 EA 2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	137.20	
32 93 43 00-0455 EA 2-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	156.80	
32 93 43 00-0456 EA 3" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	171.50	
32 93 43 00-0457 EA 3-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	186.20	
32 93 43 00-0458 EA 4" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	205.80	
32 93 43 00-0459 EA 4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	245.00	
32 93 43 00-0460 EA 5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	289.10	
32 93 43 00-0461 EA 2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	156.80	
32 93 43 00-0462 EA 2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	171.50	
32 93 43 00-0463 EA 3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	186.20	
32 93 43 00-0464 EA 3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	205.80	
32 93 43 00-0465 EA 4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	245.00	
32 93 43 00-0466 EA 4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	289.10	
32 93 43 00-0467 EA 5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	333.20	
32 93 43 00-0468 EA 2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	156.80	
32 93 43 00-0469 EA 2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm	171.50	
32 93 43 00-0470 EA 3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	186.20	
32 93 43 00-0471 EA 3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	205.80	
32 93 43 00-0472 EA 4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	245.00	
32 93 43 00-0473 EA 4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	289.10	
32 93 43 00-0474 EA 5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	333.20	
32 93 43 00-0475 EA 1-1/2" To 2" Caliper Platanus acerifolia "Bloodgold" - London Plane	361.89	
32 93 43 00-0476 EA 2" To 2-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane	645.96	
32 93 43 00-0477 EA 2-1/2" To 3" Caliper Platanus acerifolia "Bloodgold" - London Plane	945.59	
32 93 43 00-0478 EA 3" To 3-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,175.17	
32 93 43 00-0479 EA 3-1/2" To 4" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,521.50	
32 93 43 00-0480 EA 4" To 5" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,731.63	
32 93 43 00-0481 EA 24" Box Platanus acerifolia "Bloodgold" - London Plane	455.28	
32 93 43 00-0482 EA 1-1/2" Caliper Quercus suber - Cork Oak	544.78	
32 93 43 00-0483 EA 2" Caliper Quercus suber - Cork Oak	754.91	
32 93 43 00-0484 EA 2-1/2" Caliper Quercus suber - Cork Oak	965.04	
32 93 43 00-0485 EA 3" Caliper Quercus suber - Cork Oak	1,206.30	
32 93 43 00-0486 EA 3-1/2" Caliper Quercus suber - Cork Oak	1,809.45	
32 93 43 00-0487 EA 4" Caliper Quercus suber - Cork Oak	2,334.78	
32 93 43 00-0488 EA 4-1/2" Caliper Quercus suber - Cork Oak	3,035.21	
32 93 43 00-0489 EA 1-1/2" Caliper Quercus ilex - Holly Oak	603.15	
32 93 43 00-0490 EA 2" Caliper Quercus ilex - Holly Oak	813.28	
32 93 43 00-0491 EA 2-1/2" Caliper Quercus ilex - Holly Oak	996.17	
32 93 43 00-0492 EA 3" Caliper Quercus ilex - Holly Oak	1,206.30	
32 93 43 00-0493 EA 3-1/2" Caliper Quercus ilex - Holly Oak	1,809.45	
32 93 43 00-0494 EA 4" Caliper Quercus ilex - Holly Oak	2,334.78	

32 93 43 00-0495**Evergreen Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0496 EA 2' To 3' Cedrus atlantica - Blue Atlas Cedar	11.25	
32 93 43 00-0497 EA 3' To 4' Cedrus atlantica - Blue Atlas Cedar	18.08	
32 93 43 00-0498 EA 4' To 5' Cedrus atlantica - Blue Atlas Cedar	26.87	
32 93 43 00-0499 EA 5' To 6' Cedrus atlantica - Blue Atlas Cedar	36.15	
32 93 43 00-0500 EA 7' To 8' Cedrus atlantica - Blue Atlas Cedar	51.32	
32 93 43 00-0501 EA 5 Gallon Cedrus deodara - Indian Cedar	6.44	
32 93 43 00-0502 EA 6' To 8' Cedrus deodara - Indian Cedar	46.43	
32 93 43 00-0503 EA 8' To 10' Cedrus deodara - Indian Cedar	53.76	
32 93 43 00-0504 EA 10' To 12' Cedrus deodara - Indian Cedar	73.30	
32 93 43 00-0505 EA 12' To 14' Cedrus deodara - Indian Cedar	95.28	
32 93 43 00-0506 EA 14' To 16' Cedrus deodara - Indian Cedar	122.18	
32 93 43 00-0507 EA 15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress	14.51	
32 93 43 00-0508 EA 18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress	21.77	
32 93 43 00-0509 EA 2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress	33.87	
32 93 43 00-0510 EA 3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress	58.06	
32 93 43 00-0511 EA 5 Gallon Cupressocyparis leylandii - Leyland Cypress	7.99	
32 93 43 00-0512 EA 15 Gallon Cupressocyparis leylandii - Leyland Cypress	31.94	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0513	EA	4' To 5' Cupressocyparis leylandii - Leyland Cypress.....	13.97		
32 93 43 00-0514	EA	5' To 6' Cupressocyparis leylandii - Leyland Cypress.....	17.97		
32 93 43 00-0515	EA	6' To 7' Cupressocyparis leylandii - Leyland Cypress.....	27.95		
32 93 43 00-0516	EA	24" Box Cupressocyparis leylandii - Leyland Cypress.....	67.88		
32 93 43 00-0517	EA	1 Gallon Cupressus macrocarpa - Monterey Cypress.....	1.46		
32 93 43 00-0518	EA	5 Gallon Cupressus macrocarpa - Monterey Cypress.....	6.55		
32 93 43 00-0519	EA	15 Gallon Cupressus macrocarpa - Monterey Cypress.....	21.84		
32 93 43 00-0520	EA	5 Gallon Cupressus sempervirens - Italian Cypress.....	7.52		
32 93 43 00-0521	EA	15 Gallon Cupressus sempervirens - Italian Cypress.....	20.67		
32 93 43 00-0522	EA	1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	2.21		
32 93 43 00-0523	EA	2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	4.32		
32 93 43 00-0524	EA	3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	5.35		
32 93 43 00-0525	EA	5 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	6.29		
32 93 43 00-0526	EA	1 Gallon Juniperus - Blue Sargent Juniper.....	2.21		
32 93 43 00-0527	EA	2 Gallon Juniperus - Blue Sargent Juniper.....	4.32		
32 93 43 00-0528	EA	3 Gallon Juniperus - Blue Sargent Juniper.....	5.35		
32 93 43 00-0529	EA	5 Gallon Juniperus - Blue Sargent Juniper.....	6.29		
32 93 43 00-0530	EA	5 Gallon Juniperus - Compact Pfitzer Juniper.....	6.29		
32 93 43 00-0531	EA	15" To 18" Juniperus - Compact Pfitzer Juniper.....	6.81		
32 93 43 00-0532	EA	18" To 24" Juniperus - Compact Pfitzer Juniper.....	8.22		
32 93 43 00-0533	EA	2' To 2 1/2' Juniperus - Compact Pfitzer Juniper.....	12.21		
32 93 43 00-0534	EA	2-1/2' To 3' Juniperus - Compact Pfitzer Juniper.....	14.14		
32 93 43 00-0535	EA	5' To 6' Juniperus - Fairview Juniper.....	21.06		
32 93 43 00-0536	EA	1 Gallon Juniperus - Hollywood Juniper.....	2.82		
32 93 43 00-0537	EA	5 Gallon Juniperus - Hollywood Juniper.....	7.84		
32 93 43 00-0538	EA	15 Gallon Juniperus - Hollywood Juniper.....	33.26		
32 93 43 00-0539	EA	4' To 5' Juniperus - Hollywood Juniper.....	21.98		
32 93 43 00-0540	EA	5' To 6' Juniperus - Hollywood Juniper.....	28.32		
32 93 43 00-0541	EA	1 Gallon Juniperus - Parson's Juniper.....	2.21		
32 93 43 00-0542	EA	2 Gallon Juniperus - Parson's Juniper.....	4.37		
32 93 43 00-0543	EA	3 Gallon Juniperus - Parson's Juniper.....	5.40		
32 93 43 00-0544	EA	5 Gallon Juniperus - Parson's Juniper.....	6.39		
32 93 43 00-0545	EA	5 Gallon Juniperus - Skyrocket Juniper.....	7.89		
32 93 43 00-0546	EA	15 Gallon Juniperus - Skyrocket Juniper.....	33.59		
32 93 43 00-0547	EA	2' To 3' Juniperus - Skyrocket Juniper.....	11.84		
32 93 43 00-0548	EA	3' To 4' Juniperus - Skyrocket Juniper.....	16.77		
32 93 43 00-0549	EA	4' To 5' Juniperus - Skyrocket Juniper.....	22.22		
32 93 43 00-0550	EA	5' To 6' Juniperus - Skyrocket Juniper.....	28.65		
32 93 43 00-0551	EA	6' To 8' Juniperus - Skyrocket Juniper.....	37.01		
32 93 43 00-0552	EA	1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	2.21		
32 93 43 00-0553	EA	2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	4.35		
32 93 43 00-0554	EA	3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	5.33		
32 93 43 00-0555	EA	5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	6.32		
32 93 43 00-0556	EA	1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	2.21		
32 93 43 00-0557	EA	2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	4.35		
32 93 43 00-0558	EA	3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	5.33		
32 93 43 00-0559	EA	5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	6.32		
32 93 43 00-0560	EA	3' Pinus sylvestris - Scotch Pine.....	20.52		
32 93 43 00-0561	EA	4' Pinus sylvestris - Scotch Pine.....	28.48		
32 93 43 00-0562	EA	5' Pinus sylvestris - Scotch Pine.....	39.98		
32 93 43 00-0563	EA	6' Pinus sylvestris - Scotch Pine.....	55.47		
32 93 43 00-0564	EA	7' Pinus sylvestris - Scotch Pine.....	67.96		
32 93 43 00-0565	EA	8' Pinus sylvestris - Scotch Pine.....	95.94		
32 93 43 00-0566	EA	9' Pinus sylvestris - Scotch Pine.....	121.80		
32 93 43 00-0567	EA	10' Pinus sylvestris - Scotch Pine.....	140.54		
32 93 43 00-0568	EA	12' Pinus sylvestris - Scotch Pine.....	165.52		
32 93 43 00-0569	EA	14' Pinus sylvestris - Scotch Pine.....	187.38		
32 93 43 00-0570	EA	16' Pinus sylvestris - Scotch Pine.....	218.61		
32 93 43 00-0571	EA	1 Gallon Pinus thunbergiana - Japanese Black Pine.....	2.21		
32 93 43 00-0572	EA	5 Gallon Pinus thunbergiana - Japanese Black Pine.....	7.84		
32 93 43 00-0573	EA	15 Gallon Pinus thunbergiana - Japanese Black Pine.....	25.41		
32 93 43 00-0574	EA	2' To 3' Pinus thunbergiana - Japanese Black Pine.....	10.76		
32 93 43 00-0575	EA	3' To 4' Pinus thunbergiana - Japanese Black Pine.....	13.67		
32 93 43 00-0576	EA	4' To 5' Pinus thunbergiana - Japanese Black Pine.....	20.53		
32 93 43 00-0577	EA	5' To 6' Pinus thunbergiana - Japanese Black Pine.....	40.07		
32 93 43 00-0578	EA	6' To 7' Pinus Thunbergiana - Japanese Black Pine.....	44.95		
32 93 43 00-0579	EA	7' To 8' Pinus thunbergiana - Japanese Black Pine.....	56.18		
32 93 43 00-0580	EA	6' Pinus flexilis & cvs - Limber Pine.....	78.08		
32 93 43 00-0581	EA	7' Pinus flexilis & cvs - Limber Pine.....	90.57		
32 93 43 00-0582	EA	8' Pinus flexilis & cvs - Limber Pine.....	112.43		
32 93 43 00-0583	EA	9' Pinus flexilis & cvs - Limber Pine.....	137.41		
32 93 43 00-0584	EA	10' Pinus flexilis & cvs - Limber Pine.....	156.15		
32 93 43 00-0585	EA	1 Gallon Pinus mugo - Mugho Pine.....	2.91		
32 93 43 00-0586	EA	2 Gallon Pinus mugo - Mugho Pine.....	6.15		
32 93 43 00-0587	EA	3 Gallon Pinus mugo - Mugho Pine.....	7.70		
32 93 43 00-0588	EA	5 Gallon Pinus mugo - Mugho Pine.....	9.77		
32 93 43 00-0589	EA	12" To 15" Spread Pinus mugo - Mugho Pine.....	7.56		
32 93 43 00-0590	EA	15" To 18" Spread Pinus mugo - Mugho Pine.....	9.02		
32 93 43 00-0591	EA	18" To 24" Spread Pinus mugo - Mugho Pine.....	12.21		
32 93 43 00-0592	EA	2' To 2-1/2' Spread Pinus mugo - Mugho Pine.....	17.10		
32 93 43 00-0593	EA	2-1/2' To 3' Spread Pinus mugo - Mugho Pine.....	21.98		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0594 EA 3' To 3-1/2' Spread Pinus mugo - Mugho Pine.....	27.38	
32 93 43 00-0595 EA 3-1/2' To 4' Spread Pinus mugo - Mugho Pine.....	33.26	
32 93 43 00-0596 EA 6' Pinus nigra - Austrian Pine.....	78.08	
32 93 43 00-0597 EA 7' Pinus nigra - Austrian Pine.....	93.69	
32 93 43 00-0598 EA 8' Pinus nigra - Austrian Pine.....	121.80	
32 93 43 00-0599 EA 9' Pinus nigra - Austrian Pine.....	140.54	
32 93 43 00-0600 EA 10' Pinus nigra - Austrian Pine.....	165.52	
32 93 43 00-0601 EA 12' Pinus nigra - Austrian Pine.....	187.38	
32 93 43 00-0602 EA 14' Pinus nigra - Austrian Pine.....	209.24	
32 93 43 00-0603 EA 16' Pinus nigra - Austrian Pine.....	237.35	
32 93 43 00-0604 EA 1 Gallon Podocarpus - Chinese Podocarpus.....	1.46	
32 93 43 00-0605 EA 3 Gallon Podocarpus - Chinese Podocarpus.....	3.38	
32 93 43 00-0606 EA 7 Gallon Podocarpus - Chinese Podocarpus.....	9.77	
32 93 43 00-0607 EA 15 Gallon Podocarpus - Chinese Podocarpus.....	15.88	
32 93 43 00-0608 EA 4' To 5' Podocarpus - Chinese Podocarpus.....	24.43	
32 93 43 00-0609 EA 5' To 6' Sequoia sempervirens - Dawn Redwood.....	30.53	
32 93 43 00-0610 EA 6' To 8' Sequoia sempervirens - Dawn Redwood.....	41.22	
32 93 43 00-0611 EA 8' To 10' Sequoia sempervirens - Dawn Redwood.....	50.38	
32 93 43 00-0612 EA 3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae.....	5.89	
32 93 43 00-0613 EA 3' To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae.....	37.71	
32 93 43 00-0614 EA 6' Cedrus decurrens - Incese Cedar.....	52.44	
32 93 43 00-0615 EA 8' Cedrus decurrens - Incese Cedar.....	108.46	
32 93 43 00-0616 EA 10' Cedrus decurrens - Incese Cedar.....	143.66	
32 93 43 00-0617 EA 12' Cedrus decurrens - Incese Cedar.....	190.35	
32 93 43 00-0618 EA 6' Melaleuca linarifolia - Flaxleaf Paperbark.....	150.84	
32 93 43 00-0619 EA 8' Melaleuca linarifolia - Flaxleaf Paperbark.....	201.12	
32 93 43 00-0620 EA 10' Melaleuca linarifolia - Flaxleaf Paperbark.....	251.40	
32 93 43 00-0621 EA 12' Melaleuca linarifolia - Flaxleaf Paperbark.....	301.69	
32 93 43 00-0622 EA 24" Box Melaleuca linarifolia - Flaxleaf Paperbark.....	88.71	
32 93 43 00-0623 EA 6' Melaleuca quinquenervia - Cajeput Tree.....	150.84	
32 93 43 00-0624 EA 8' Melaleuca quinquenervia - Cajeput Tree.....	201.12	
32 93 43 00-0625 EA 10' Melaleuca quinquenervia - Cajeput Tree.....	251.40	
32 93 43 00-0626 EA 12' Melaleuca quinquenervia - Cajeput Tree.....	301.69	
32 93 43 00-0627 EA 24" Box Melaleuca quinquenervia - Cajeput Tree.....	84.04	
32 93 43 00-0628 EA 30" Box Melaleuca quinquenervia - Cajeput Tree.....	211.90	
32 93 43 00-0629 EA 36" Box Melaleuca quinquenervia - Cajeput Tree.....	334.01	
32 93 43 00-0630 EA 4' Metrosideros excelsus - New Zealand Christmas Tree.....	44.53	
32 93 43 00-0631 EA 5' Metrosideros excelsus - New Zealand Christmas Tree.....	60.34	
32 93 43 00-0632 EA 6' Metrosideros excelsus - New Zealand Christmas Tree.....	102.72	
32 93 43 00-0633 EA 8' Metrosideros excelsus - New Zealand Christmas Tree.....	127.14	
32 93 43 00-0634 EA 24" Box Metrosideros excelsus - New Zealand Christmas Tree.....	112.05	
32 93 43 00-0635 EA 6' Pinus canariensis - Canary Island Pine.....	172.39	
32 93 43 00-0636 EA 8' Pinus canariensis - Canary Island Pine.....	229.86	
32 93 43 00-0637 EA 10' Pinus canariensis - Canary Island Pine.....	287.32	
32 93 43 00-0638 EA 12' Pinus canariensis - Canary Island Pine.....	344.78	
32 93 43 00-0639 EA 24" Box Pinus canariensis - Canary Island Pine.....	102.72	
32 93 43 00-0640 EA 6' Pinus pinea - Italian Stone Pine.....	172.39	
32 93 43 00-0641 EA 8' Pinus pinea - Italian Stone Pine.....	229.86	
32 93 43 00-0642 EA 10' Pinus pinea - Italian Stone Pine.....	287.32	
32 93 43 00-0643 EA 12' Pinus pinea - Italian Stone Pine.....	344.78	
32 93 43 00-0644 EA 6' Pittosporum undulatum - Victorian Box.....	94.82	
32 93 43 00-0645 EA 8' Pittosporum undulatum - Victorian Box.....	150.12	
32 93 43 00-0646 EA 10' Pittosporum undulatum - Victorian Box.....	197.53	
32 93 43 00-0647 EA 6' Podocarpus gracilior - African Fern Pine.....	179.58	
32 93 43 00-0648 EA 8' Podocarpus gracilior - African Fern Pine.....	237.04	
32 93 43 00-0649 EA 10' Podocarpus gracilior - African Fern Pine.....	301.69	
32 93 43 00-0650 EA 12' Podocarpus gracilior - African Fern Pine.....	359.15	
32 93 43 00-0651 EA 24" Box Podocarpus gracilior - African Fern Pine.....	84.04	
32 93 43 00-0652 EA 1 Gallon Podocarpus macrophyllus - Yew Pine.....	3.34	
32 93 43 00-0653 EA 3 Gallon Podocarpus macrophyllus - Yew Pine.....	7.83	
32 93 43 00-0654 EA 5 Gallon Podocarpus macrophyllus - Yew Pine.....	10.27	
32 93 43 00-0655 EA 15 Gallon Podocarpus macrophyllus - Yew Pine.....	44.53	
32 93 43 00-0656 EA 24" Box Podocarpus macrophyllus - Yew Pine.....	86.20	
32 93 43 00-0657 EA 24" Box Rhus lancea - African Sumac.....	88.71	
32 93 43 00-0658 EA 30" Box Rhus lancea - African Sumac.....	143.66	
32 93 43 00-0659 EA 8' Rhus lancea - African Sumac.....	215.49	
32 93 43 00-0660 EA 10' Rhus lancea - African Sumac.....	240.63	
32 93 43 00-0661 EA 12' Rhus lancea - African Sumac.....	287.32	

32 93 43 00-0662 Palm And Subtropical Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0663 EA 4' To 5' Archontophoenix cunninghamiana - King Palm.....	98.35	
32 93 43 00-0664 EA 6' To 8' Archontophoenix cunninghamiana - King Palm.....	152.98	
32 93 43 00-0665 EA 8' To 10' Archontophoenix cunninghamiana - King Palm.....	196.69	
32 93 43 00-0666 EA 10' To 12' Archontophoenix cunninghamiana - King Palm.....	262.26	
32 93 43 00-0667 EA 4' To 5' Arecastrum romanzoffianum - Queen Palm.....	74.50	
32 93 43 00-0668 EA 6' To 8' Arecastrum romanzoffianum - Queen Palm.....	104.31	
32 93 43 00-0669 EA 8' To 10' Arecastrum romanzoffianum - Queen Palm.....	134.11	
32 93 43 00-0670 EA 10' To 12' Arecastrum romanzoffianum - Queen Palm.....	163.91	

**Exterior Improvements****32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0671	EA	12' To 14' Arecastrum romanzoffianum - Queen Palm	198.68		
32 93 43 00-0672	EA	14' To 16' Arecastrum romanzoffianum - Queen Palm	248.35		
32 93 43 00-0673	EA	3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm	208.61		
32 93 43 00-0674	EA	5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm	327.82		
32 93 43 00-0675	EA	3' To 4' Chamaerops humilis - European Fan Palm	178.81		
32 93 43 00-0676	EA	5' To 6' Chamaerops humilis - European Fan Palm	238.42		
32 93 43 00-0677	EA	7' To 8' Chamaerops humilis - European Fan Palm	556.30		
32 93 43 00-0678	EA	9' To 10' Chamaerops humilis - European Fan Palm	953.66		
32 93 43 00-0679	EA	12' To 16' Cocos nucifera - Coconut Palm	418.96		
32 93 43 00-0680	EA	6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	139.08		
32 93 43 00-0681	EA	8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	278.15		
32 93 43 00-0682	EA	10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	357.62		
32 93 43 00-0683	EA	12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	496.70		
32 93 43 00-0684	EA	4' To 5' Rhaps excelsa - Lady Palm	377.49		
32 93 43 00-0685	EA	6' To 7' Rhaps excelsa - Lady Palm	536.44		
32 93 43 00-0686	EA	8' To 9' Roystonea regia - Royal Palm	303.98		
32 93 43 00-0687	EA	10' To 11' Roystonea regia - Royal Palm	371.53		
32 93 43 00-0688	EA	12' To 13' Roystonea regia - Royal Palm	439.08		
32 93 43 00-0689	EA	14' To 15' Roystonea regia - Royal Palm	506.63		
32 93 43 00-0690	EA	16' To 17' Roystonea regia - Royal Palm	574.19		
32 93 43 00-0691	EA	18' To 19' Roystonea regia - Royal Palm	641.74		
32 93 43 00-0692	EA	20' To 21' Roystonea regia - Royal Palm	709.29		
32 93 43 00-0693	EA	10' To 16' Sabal palmetto - Cabbage Palm	153.62		
32 93 43 00-0694	EA	6' To 7' Thrinax morrisii - Key Thatch Palm	417.23		
32 93 43 00-0695	EA	8' To 9' Thrinax morrisii - Key Thatch Palm	536.44		
32 93 43 00-0696	EA	10' To 11' Thrinax morrisii - Key Thatch Palm	655.64		
32 93 43 00-0697	EA	9' Ptychosperma elegans - Alexander Palm, Solitaire Palm	149.01		
32 93 43 00-0698	EA	11' Ptychosperma elegans - Alexander Palm, Solitaire Palm	248.35		
32 93 43 00-0699	EA	15' Ptychosperma elegans - Alexander Palm, Solitaire Palm	377.49		
32 93 43 00-0700	EA	17' Ptychosperma elegans - Alexander Palm, Solitaire Palm	427.16		
32 93 43 00-0701	EA	20' Ptychosperma elegans - Alexander Palm, Solitaire Palm	496.70		
32 93 43 00-0702	EA	4' To 5' Bauninia blakeana - Hong Kong Orchid	427.16		
32 93 43 00-0703	EA	6' Bauninia blakeana - Hong Kong Orchid	506.63		
32 93 43 00-0704	EA	8' Bauninia blakeana - Hong Kong Orchid	675.51		
32 93 43 00-0705	EA	10' Bauninia blakeana - Hong Kong Orchid	844.39		
32 93 43 00-0706	EA	4' To 5' Acacia baileyana - Bailey Acacia	397.36		
32 93 43 00-0707	EA	6' Acacia baileyana - Bailey Acacia	476.83		
32 93 43 00-0708	EA	8' Acacia baileyana - Bailey Acacia	556.30		
32 93 43 00-0709	EA	10' Acacia baileyana - Bailey Acacia	695.38		
32 93 43 00-0710	EA	6' Agonis flexuosa - Peppermint	238.42		
32 93 43 00-0711	EA	8' Agonis flexuosa - Peppermint	298.02		
32 93 43 00-0712	EA	10' Agonis flexuosa - Peppermint	357.62		
32 93 43 00-0713	EA	24" Box Agonis flexuosa - Peppermint	297.03		
32 93 43 00-0714	EA	6' Bauhinia purpurea - Purple Orchid Tree	536.44		
32 93 43 00-0715	EA	8' Bauhinia purpurea - Purple Orchid Tree	715.25		
32 93 43 00-0716	EA	10' Bauhinia purpurea - Purple Orchid Tree	894.06		
32 93 43 00-0717	EA	24" Box Bauhinia purpurea - Purple Orchid Tree	232.46		
32 93 43 00-0718	EA	6' Bauhinia variegata candida - White Orchid Tree	596.04		
32 93 43 00-0719	EA	8' Bauhinia variegata candida - White Orchid Tree	794.72		
32 93 43 00-0720	EA	10' Bauhinia variegata candida - White Orchid Tree	993.40		
32 93 43 00-0721	EA	6' Callistemon citrinus - Crimson or Lemon Bottle Brush	536.44		
32 93 43 00-0722	EA	8' Callistemon citrinus - Crimson or Lemon Bottle Brush	715.25		
32 93 43 00-0723	EA	10' Callistemon citrinus - Crimson or Lemon Bottle Brush	894.06		
32 93 43 00-0724	EA	6' Eriobotrya deflexa - Bronze Loquat	536.44		
32 93 43 00-0725	EA	8' Eriobotrya deflexa - Bronze Loquat	715.25		
32 93 43 00-0726	EA	10' Eriobotrya deflexa - Bronze Loquat	894.06		
32 93 43 00-0727	EA	6' Eucalyptus erythrocorys - Red Cap Gum	536.44		
32 93 43 00-0728	EA	8' Eucalyptus erythrocorys - Red Cap Gum	715.25		
32 93 43 00-0729	EA	10' Eucalyptus erythrocorys - Red Cap Gum	894.06		
32 93 43 00-0730	EA	6' Eucalyptus torquata - Coral Gum	536.44		
32 93 43 00-0731	EA	8' Eucalyptus torquata - Coral Gum	715.25		
32 93 43 00-0732	EA	10' Eucalyptus torquata - Coral Gum	894.06		
32 93 43 00-0733	EA	8' Fraxinus oxycarpa "Raywood" - Raywood Ash	556.30		
32 93 43 00-0734	EA	10' Fraxinus oxycarpa "Raywood" - Raywood Ash	754.98		
32 93 43 00-0735	EA	12' Fraxinus oxycarpa "Raywood" - Raywood Ash	933.80		
32 93 43 00-0736	EA	1 Gallon Washingtonia robusta - Mexican Fan Palm	4.95		
32 93 43 00-0737	EA	5 Gallon Washingtonia robusta - Mexican Fan Palm	15.40		
32 93 43 00-0738	EA	15 Gallon Washingtonia robusta - Mexican Fan Palm	53.90		
32 93 43 00-0739	EA	24" Box Washingtonia robusta - Mexican Fan Palm	175.98		
32 93 43 00-0740	EA	36" Box Washingtonia robusta - Mexican Fan Palm	467.46		
32 93 43 00-0741	EA	6' Washingtonia robusta - Mexican Fan Palm	536.44		
32 93 43 00-0742	EA	8' Washingtonia robusta - Mexican Fan Palm	715.25		
32 93 43 00-0743	EA	10' Washingtonia robusta - Mexican Fan Palm	894.06		
32 93 43 00-0744	EA	12' Washingtonia robusta - Mexican Fan Palm	1,072.87		
32 93 43 00-0745	EA	6' Olea europaea - Olive "Fruitless"	536.44		
32 93 43 00-0746	EA	8' Olea europaea - Olive "Fruitless"	715.25		
32 93 43 00-0747	EA	10' Olea europaea - Olive "Fruitless"	894.06		
32 93 43 00-0748	EA	12' Olea europaea - Olive "Fruitless"	1,072.87		
32 93 43 00-0749	EA	24" Box Olea europaea - Olive "Fruitless"	659.62		
32 93 43 00-0750	EA	6' Eucalyptus polyanthemos - Silver Dollar Gum	536.44		
32 93 43 00-0751	EA	8' Eucalyptus polyanthemos - Silver Dollar Gum	715.25		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0752 EA 10' Eucalyptus polyanthemos - Silver Dollar Gum	894.06	
32 93 43 00-0753 EA 6' Eucalyptus leucoxylon - White Ironbark	536.44	
32 93 43 00-0754 EA 8' Eucalyptus leucoxylon - White Ironbark	715.25	
32 93 43 00-0755 EA 10' Eucalyptus leucoxylon - White Ironbark	894.06	
32 93 43 00-0756 EA 12' Eucalyptus leucoxylon - White Ironbark	1,072.87	
32 93 43 00-0757 EA 6' Callistemon viminalis - Weeping Bottle Brush	536.44	
32 93 43 00-0758 EA 8' Callistemon viminalis - Weeping Bottle Brush	715.25	
32 93 43 00-0759 EA 10' Callistemon viminalis - Weeping Bottle Brush	894.06	
32 93 43 00-0760 EA 12' Callistemon viminalis - Weeping Bottle Brush	1,072.87	
32 93 43 00-0761 EA 6' Eucalyptus gunnii - Cider Gum.....	536.44	
32 93 43 00-0762 EA 8' Eucalyptus gunnii - Cider Gum.....	715.25	
32 93 43 00-0763 EA 10' Eucalyptus gunnii - Cider Gum.....	894.06	
32 93 43 00-0764 EA 6' Jacarandra acutifolia - Jacaranda	536.44	
32 93 43 00-0765 EA 8' Jacarandra acutifolia - Jacaranda	715.25	
32 93 43 00-0766 EA 10' Jacarandra acutifolia - Jacaranda	894.06	
32 93 43 00-0767 EA 24" Box Jacarandra acutifolia - Jacaranda.....	232.46	
32 93 43 00-0768 EA 5 Gallon Phoenix roebelenii - Pygmy Date Palm	18.84	
32 93 43 00-0769 EA 7 Gallon Phoenix roebelenii - Pygmy Date Palm	45.91	
32 93 43 00-0770 EA 15 Gallon Phoenix roebelenii - Pygmy Date Palm	69.46	
32 93 43 00-0771 EA 24" Box Phoenix roebelenii - Pygmy Date Palm	206.03	
32 93 43 00-0772 EA 5 Gallon Pistacia chinensis - Chinese Pistache	35.76	
32 93 43 00-0773 EA 15 Gallon Pistacia chinensis - Chinese Pistache	119.21	
32 93 43 00-0774 EA 24" Box Pistacia chinensis - Chinese Pistache	462.92	
32 93 43 00-0775 EA 36" Box Pistacia chinensis - Chinese Pistache	1,231.82	
32 93 43 00-0776 EA 48" Box Pistacia chinensis - Chinese Pistache	2,622.58	
32 93 43 00-0777 EA 5 Gallon Pyrus kawakamii - Evergreen Pear, Single.....	36.95	
32 93 43 00-0778 EA 15 Gallon Pyrus kawakamii - Evergreen Pear, Single.....	123.18	
32 93 43 00-0779 EA 24" Box Pyrus kawakamii - Evergreen Pear, Single	462.92	
32 93 43 00-0780 EA 30" Box Pyrus kawakamii - Evergreen Pear, Single	846.38	
32 93 43 00-0781 EA 36" Box Pyrus kawakamii - Evergreen Pear, Single	1,231.82	
32 93 43 00-0782 EA 5 Gallon Pyrus kawakamii - Evergreen Pear, Multi	36.95	
32 93 43 00-0783 EA 15 Gallon Pyrus kawakamii - Evergreen Pear, Multi	131.13	
32 93 43 00-0784 EA 24" Box Pyrus kawakamii - Evergreen Pear, Multi.....	476.83	
32 93 43 00-0785 EA 30" Box Pyrus kawakamii - Evergreen Pear, Multi.....	846.38	
32 93 43 00-0786 EA 36" Box Pyrus kawakamii - Evergreen Pear, Multi.....	1,231.82	

32 93 53 Planting Of Trees, Shrubs And Ground Cover (32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 53 00-0001 Planting Trees (32 93 53)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 53 00-0002 EA 3" To 5" Bare Root Seedlings Tree Planting	1.06	
32 93 53 00-0003 EA 6" To 10" Bare Root Seedlings Tree Planting	1.70	
32 93 53 00-0004 EA 11" To 16" Bare Root Seedlings Tree Planting	2.13	
32 93 53 00-0005 EA 17" To 24" Bare Root Seedlings Tree Planting	3.39	
32 93 53 00-0006 EA 1 Gallon Container Tree Planting.....	16.97	
For >10 To 25, Deduct	-0.85	
For >25 To 50, Deduct	-2.12	
For >50 To 100, Deduct	-3.39	
For >100, Deduct	-5.09	
32 93 53 00-0007 EA 2 Gallon Container Tree Planting.....	23.77	
For >10 To 25, Deduct	-1.19	
For >25 To 50, Deduct	-2.97	
For >50 To 100, Deduct	-4.75	
For >100, Deduct	-7.13	
32 93 53 00-0008 EA 3 Gallon Container Tree Planting.....	30.56	
For >10 To 25, Deduct	-1.53	
For >25 To 50, Deduct	-3.82	
For >50 To 100, Deduct	-6.11	
For >100, Deduct	-9.17	
32 93 53 00-0009 EA 5 Gallon Container Tree Planting.....	50.92	
For >10 To 25, Deduct	-2.55	
For >25 To 50, Deduct	-6.37	
For >50 To 100, Deduct	-10.18	
For >100, Deduct	-15.28	
32 93 53 00-0010 EA 7 Gallon Container Tree Planting.....	67.91	
For >10 To 25, Deduct	-3.40	
For >25 To 50, Deduct	-8.49	
For >50 To 100, Deduct	-13.58	
For >100, Deduct	-20.37	
32 93 53 00-0011 EA 10 Gallon Container Tree Planting.....	88.27	
For >10 To 25, Deduct	-4.41	
For >25 To 50, Deduct	-11.03	
For >50 To 100, Deduct	-17.65	
For >100, Deduct	-26.48	
32 93 53 00-0012 EA 15 Gallon Container Tree Planting.....	125.62	
For >10 To 25, Deduct	-6.28	
For >25 To 50, Deduct	-15.70	
For >50 To 100, Deduct	-25.12	
For >100, Deduct	-37.69	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 53 00-0013	EA		20 Gallon Container Tree Planting.....	207.10	
			For >10 To 25, Deduct	-10.36	
			For >25 To 50, Deduct	-25.89	
			For >50 To 100, Deduct	-41.42	
			For >100, Deduct	-62.13	
32 93 53 00-0014	EA		25 Gallon Container Tree Planting.....	268.22	
			For >10 To 25, Deduct	-13.41	
			For >25 To 50, Deduct	-33.53	
			For >50 To 100, Deduct	-53.64	
			For >100, Deduct	-80.47	
32 93 53 00-0015	EA		30 Gallon Container Tree Planting.....	322.54	
			For >10 To 25, Deduct	-16.13	
			For >25 To 50, Deduct	-40.32	
			For >50 To 100, Deduct	-64.51	
			For >100, Deduct	-96.76	
32 93 53 00-0016	EA		45 Gallon Container Tree Planting.....	400.63	
			For >10 To 25, Deduct	-20.03	
			For >25 To 50, Deduct	-50.08	
			For >50 To 100, Deduct	-80.13	
			For >100, Deduct	-120.19	
32 93 53 00-0017	EA		65 Gallon Container Tree Planting.....	475.32	
			For >10 To 25, Deduct	-23.77	
			For >25 To 50, Deduct	-59.42	
			For >50 To 100, Deduct	-95.06	
			For >100, Deduct	-142.60	
32 93 53 00-0018	EA		6' Balled And Burlapped Tree Planting.....	169.75	
			For >10 To 25, Deduct	-8.49	
			For >25 To 50, Deduct	-21.22	
			For >50 To 100, Deduct	-33.95	
			For >100, Deduct	-50.93	
32 93 53 00-0019	EA		7' Balled And Burlapped Tree Planting.....	226.12	
			For >10 To 25, Deduct	-11.31	
			For >25 To 50, Deduct	-28.27	
			For >50 To 100, Deduct	-45.22	
			For >100, Deduct	-67.84	
32 93 53 00-0020	EA		8' Balled And Burlapped Tree Planting.....	254.64	
			For >10 To 25, Deduct	-12.73	
			For >25 To 50, Deduct	-31.83	
			For >50 To 100, Deduct	-50.93	
			For >100, Deduct	-76.39	
32 93 53 00-0021	EA		10' Balled And Burlapped Tree Planting.....	297.08	
			For >10 To 25, Deduct	-14.85	
			For >25 To 50, Deduct	-37.14	
			For >50 To 100, Deduct	-59.42	
			For >100, Deduct	-89.12	
32 93 53 00-0022	EA		12' Balled And Burlapped Tree Planting.....	397.23	
			For >10 To 25, Deduct	-19.86	
			For >25 To 50, Deduct	-49.65	
			For >50 To 100, Deduct	-79.45	
			For >100, Deduct	-119.17	
32 93 53 00-0023	EA		14' Balled And Burlapped Tree Planting.....	454.96	
			For >10 To 25, Deduct	-22.75	
			For >25 To 50, Deduct	-56.87	
			For >50 To 100, Deduct	-90.99	
			For >100, Deduct	-136.49	
32 93 53 00-0024	EA		16' Balled And Burlapped Tree Planting.....	551.72	
			For >10 To 25, Deduct	-27.59	
			For >25 To 50, Deduct	-68.97	
			For >50 To 100, Deduct	-110.34	
			For >100, Deduct	-165.52	
32 93 53 00-0025	EA		18' Balled And Burlapped Tree Planting.....	662.06	
			For >10 To 25, Deduct	-33.10	
			For >25 To 50, Deduct	-82.76	
			For >50 To 100, Deduct	-132.41	
			For >100, Deduct	-198.62	
32 93 53 00-0026	EA		20' Balled And Burlapped Tree Planting.....	763.92	
			For >10 To 25, Deduct	-38.20	
			For >25 To 50, Deduct	-95.49	
			For >50 To 100, Deduct	-152.78	
			For >100, Deduct	-229.18	
32 93 53 00-0027	EA		1-1/2" Caliper Balled And Burlapped Tree Planting.....	254.64	
			For >10 To 25, Deduct	-12.73	
			For >25 To 50, Deduct	-31.83	
			For >50 To 100, Deduct	-50.93	
			For >100, Deduct	-76.39	
32 93 53 00-0028	EA		2" Caliper Balled And Burlapped Tree Planting.....	297.08	
			For >10 To 25, Deduct	-14.85	
			For >25 To 50, Deduct	-37.14	
			For >50 To 100, Deduct	-59.42	
			For >100, Deduct	-89.12	
32 93 53 00-0029	EA		2-1/2" Caliper Balled And Burlapped Tree Planting.....	398.93	
			For >10 To 25, Deduct	-19.95	
			For >25 To 50, Deduct	-49.87	
			For >50 To 100, Deduct	-79.79	
			For >100, Deduct	-119.68	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 53 00-0030 EA 3" Caliper Balled And Burlapped Tree Planting	458.35	
For >10 To 25, Deduct	-22.92	
For >25 To 50, Deduct	-57.29	
For >50 To 100, Deduct	-91.67	
For >100, Deduct	-137.51	
32 93 53 00-0031 EA 3-1/2" Caliper Balled And Burlapped Tree Planting	509.27	
For >10 To 25, Deduct	-25.46	
For >25 To 50, Deduct	-63.66	
For >50 To 100, Deduct	-101.85	
For >100, Deduct	-152.78	
32 93 53 00-0032 EA 4" Caliper Balled And Burlapped Tree Planting	583.97	
For >10 To 25, Deduct	-29.20	
For >25 To 50, Deduct	-73.00	
For >50 To 100, Deduct	-116.79	
For >100, Deduct	-175.19	
32 93 53 00-0033 Planting Shrubs (32 93 53)		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 53 00-0034 EA 1 Gallon Container Shrub Planting.....	14.44	
For >10 To 25, Deduct	-0.72	
For >25 To 50, Deduct	-1.81	
For >50 To 100, Deduct	-2.89	
For >100, Deduct	-4.33	
32 93 53 00-0035 EA 2 Gallon Container Shrub Planting.....	20.38	
For >10 To 25, Deduct	-1.02	
For >25 To 50, Deduct	-2.55	
For >50 To 100, Deduct	-4.08	
For >100, Deduct	-6.11	
32 93 53 00-0036 EA 3 Gallon Container Shrub Planting.....	25.46	
For >10 To 25, Deduct	-1.27	
For >25 To 50, Deduct	-3.18	
For >50 To 100, Deduct	-5.09	
For >100, Deduct	-7.64	
32 93 53 00-0037 EA 4 Gallon Container Shrub Planting.....	33.95	
For >10 To 25, Deduct	-1.70	
For >25 To 50, Deduct	-4.24	
For >50 To 100, Deduct	-6.79	
For >100, Deduct	-10.19	
32 93 53 00-0038 EA 5 Gallon Container Shrub Planting.....	42.44	
For >10 To 25, Deduct	-2.12	
For >25 To 50, Deduct	-5.31	
For >50 To 100, Deduct	-8.49	
For >100, Deduct	-12.73	
32 93 53 00-0039 EA 7 Gallon Container Shrub Planting.....	57.72	
For >10 To 25, Deduct	-2.89	
For >25 To 50, Deduct	-7.22	
For >50 To 100, Deduct	-11.54	
For >100, Deduct	-17.32	
32 93 53 00-0040 EA 10 Gallon Container Shrub Planting.....	76.39	
For >10 To 25, Deduct	-3.82	
For >25 To 50, Deduct	-9.55	
For >50 To 100, Deduct	-15.28	
For >100, Deduct	-22.92	
32 93 53 00-0041 EA 15 Gallon Container Shrub Planting.....	105.25	
For >10 To 25, Deduct	-5.26	
For >25 To 50, Deduct	-13.16	
For >50 To 100, Deduct	-21.05	
For >100, Deduct	-31.58	
32 93 53 00-0042 EA 20 Gallon Container Shrub Planting.....	176.55	
For >10 To 25, Deduct	-8.83	
For >25 To 50, Deduct	-22.07	
For >50 To 100, Deduct	-35.31	
For >100, Deduct	-52.97	
32 93 53 00-0043 EA 25 Gallon Container Shrub Planting.....	226.12	
For >10 To 25, Deduct	-11.31	
For >25 To 50, Deduct	-28.27	
For >50 To 100, Deduct	-45.22	
For >100, Deduct	-67.84	
32 93 53 00-0044 EA 15" Balled And Burlapped Shrub Planting.....	47.53	
For >10 To 25, Deduct	-2.38	
For >25 To 50, Deduct	-5.94	
For >50 To 100, Deduct	-9.51	
For >100, Deduct	-14.26	
32 93 53 00-0045 EA 18" Balled And Burlapped Shrub Planting.....	49.23	
For >10 To 25, Deduct	-2.46	
For >25 To 50, Deduct	-6.15	
For >50 To 100, Deduct	-9.85	
For >100, Deduct	-14.77	
32 93 53 00-0046 EA 24" Balled And Burlapped Shrub Planting.....	54.32	
For >10 To 25, Deduct	-2.72	
For >25 To 50, Deduct	-6.79	
For >50 To 100, Deduct	-10.86	
For >100, Deduct	-16.30	



Exterior Improvements			32
Planting			32 90
Plants			32 93

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 53 00-0047	EA	30"	Balled And Burlapped Shrub Planting	54.32	
			For >10 To 25, Deduct	-2.72	
			For >25 To 50, Deduct	-6.79	
			For >50 To 100, Deduct	-10.86	
			For >100, Deduct	-16.30	
32 93 53 00-0048	EA	36"	Balled And Burlapped Shrub Planting	59.42	
			For >10 To 25, Deduct	-2.97	
			For >25 To 50, Deduct	-7.43	
			For >50 To 100, Deduct	-11.88	
			For >100, Deduct	-17.83	
32 93 53 00-0049	EA	42"	Balled And Burlapped Shrub Planting	62.81	
			For >10 To 25, Deduct	-3.14	
			For >25 To 50, Deduct	-7.85	
			For >50 To 100, Deduct	-12.56	
			For >100, Deduct	-18.84	
32 93 53 00-0050	EA	48"	Balled And Burlapped Shrub Planting	67.91	
			For >10 To 25, Deduct	-3.40	
			For >25 To 50, Deduct	-8.49	
			For >50 To 100, Deduct	-13.58	
			For >100, Deduct	-20.37	
32 93 53 00-0051	EA	5'	Balled And Burlapped Shrub Planting	101.86	
			For >10 To 25, Deduct	-5.09	
			For >25 To 50, Deduct	-12.73	
			For >50 To 100, Deduct	-20.37	
			For >100, Deduct	-30.56	
32 93 53 00-0052	EA	6'	Balled And Burlapped Shrub Planting	144.29	
			For >10 To 25, Deduct	-7.21	
			For >25 To 50, Deduct	-18.04	
			For >50 To 100, Deduct	-28.86	
			For >100, Deduct	-43.29	
32 93 53 00-0053	EA	7'	Balled And Burlapped Shrub Planting	191.83	
			For >10 To 25, Deduct	-9.59	
			For >25 To 50, Deduct	-23.98	
			For >50 To 100, Deduct	-38.37	
			For >100, Deduct	-57.55	
32 93 53 00-0054	EA	8'	Balled And Burlapped Shrub Planting	217.29	
			For >10 To 25, Deduct	-10.86	
			For >25 To 50, Deduct	-27.16	
			For >50 To 100, Deduct	-43.46	
			For >100, Deduct	-65.19	
32 93 53 00-0055	EA	9'	Balled And Burlapped Shrub Planting	234.27	
			For >10 To 25, Deduct	-11.71	
			For >25 To 50, Deduct	-29.28	
			For >50 To 100, Deduct	-46.85	
			For >100, Deduct	-70.28	
32 93 53 00-0056	EA	10'	Balled And Burlapped Shrub Planting	254.64	
			For >10 To 25, Deduct	-12.73	
			For >25 To 50, Deduct	-31.83	
			For >50 To 100, Deduct	-50.93	
			For >100, Deduct	-76.39	
32 93 53 00-0057	Planting Groundcover, Vines, Perennials, Annuals And Bulbs (32 93 53)				
	See CSI section 32 91 13 16-0001 for mulch.				
32 93 53 00-0058	EA	2-1/4"	Diameter Potted Groundcover And Flower Planting	1.41	
			For >10 To 25, Deduct	-0.07	
			For >25 To 50, Deduct	-0.18	
			For >50 To 100, Deduct	-0.28	
			For >100, Deduct	-0.42	
32 93 53 00-0059	EA	3"	Diameter Potted Groundcover And Flower Planting	1.61	
			For >10 To 25, Deduct	-0.08	
			For >25 To 50, Deduct	-0.20	
			For >50 To 100, Deduct	-0.32	
			For >100, Deduct	-0.48	
32 93 53 00-0060	EA	4"	Diameter Potted Groundcover And Flower Planting	1.89	
			For >10 To 25, Deduct	-0.09	
			For >25 To 50, Deduct	-0.24	
			For >50 To 100, Deduct	-0.38	
			For >100, Deduct	-0.57	
32 93 53 00-0061	EA	5-1/2"	Diameter Potted Groundcover And Flower Planting	2.27	
			For >10 To 25, Deduct	-0.11	
			For >25 To 50, Deduct	-0.28	
			For >50 To 100, Deduct	-0.45	
			For >100, Deduct	-0.68	
32 93 53 00-0062	EA	6"	Diameter Potted Groundcover And Flower Planting	2.83	
			For >10 To 25, Deduct	-0.14	
			For >25 To 50, Deduct	-0.35	
			For >50 To 100, Deduct	-0.57	
			For >100, Deduct	-0.85	
32 93 53 00-0063	EA	8"	Diameter Potted Groundcover And Flower Planting	4.24	
			For >10 To 25, Deduct	-0.21	
			For >25 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-0.85	
			For >100, Deduct	-1.27	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 53 00-0064 EA 1 Gallon Container Groundcover And Flower Planting	13.58	
For >10 To 25, Deduct	-0.68	
For >25 To 50, Deduct	-1.70	
For >50 To 100, Deduct	-2.72	
For >100, Deduct	-4.07	
32 93 53 00-0065 EA 2 Gallon Container Groundcover And Flower Planting	18.67	
For >10 To 25, Deduct	-0.93	
For >25 To 50, Deduct	-2.33	
For >50 To 100, Deduct	-3.73	
For >100, Deduct	-5.60	
32 93 53 00-0066 EA 3 Gallon Container Groundcover And Flower Planting	23.77	
For >10 To 25, Deduct	-1.19	
For >25 To 50, Deduct	-2.97	
For >50 To 100, Deduct	-4.75	
For >100, Deduct	-7.13	
32 93 53 00-0067 EA 4 Gallon Container Groundcover And Flower Planting	30.56	
For >10 To 25, Deduct	-1.53	
For >25 To 50, Deduct	-3.82	
For >50 To 100, Deduct	-6.11	
For >100, Deduct	-9.17	
32 93 53 00-0068 EA 5 Gallon Container Groundcover And Flower Planting	37.35	
For >10 To 25, Deduct	-1.87	
For >25 To 50, Deduct	-4.67	
For >50 To 100, Deduct	-7.47	
For >100, Deduct	-11.21	
32 93 53 00-0069 EA 7 Gallon Container Groundcover And Flower Planting	50.92	
For >10 To 25, Deduct	-2.55	
For >25 To 50, Deduct	-6.37	
For >50 To 100, Deduct	-10.18	
For >100, Deduct	-15.28	
32 93 53 00-0070 EA Bulb Planting.....	0.85	
For >10 To 25, Deduct	-0.04	
For >25 To 50, Deduct	-0.11	
For >50 To 100, Deduct	-0.17	
For >100, Deduct	-0.26	
32 93 53 00-0071 EA Flats Of 24 Groundcover And Flower Planting.....	23.76	
For >10 To 25, Deduct	-1.19	
For >25, Deduct	-2.97	
32 93 53 00-0072 EA Flats Of 36 Groundcover And Flower Planting.....	33.71	
For >10 To 25, Deduct	-1.69	
For >25, Deduct	-4.21	
32 93 53 00-0073 EA Flats Of 48 Groundcover And Flower Planting.....	44.88	
For >10 To 25, Deduct	-2.24	
For >25, Deduct	-5.61	

32 93 53 00-0074 Tree Pits (32 93 53)

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch. See CSI section 32 91 13 16-0000 for appropriate mulch or decorative topping, 32 91 13 16-0001 for appropriate mulch or decorative topping.

32 93 53 00-0075 EA 2' x 1-1/4' Deep Tree Pit	96.95	
32 93 53 00-0076 EA 2' x 2-1/2' Deep Tree Pit	145.39	
32 93 53 00-0077 EA 2-1/2' x 1-1/2' Deep Tree Pit	187.33	
32 93 53 00-0078 EA 2-1/2' x 3' Deep Tree Pit	280.93	
32 93 53 00-0079 EA 3' x 1-3/4' Deep Tree Pit	290.02	
32 93 53 00-0080 EA 3' x 3-1/2' Deep Tree Pit	432.90	
32 93 53 00-0081 EA 3-1/2' x 1-3/4' Deep Tree Pit	355.93	
32 93 53 00-0082 EA 3-1/2' x 3-1/2' Deep Tree Pit	533.19	
32 93 53 00-0083 EA 4' x 2' Deep Tree Pit.....	425.65	
32 93 53 00-0084 EA 4' x 4' Deep Tree Pit.....	638.13	
32 93 53 00-0085 EA 4-1/2' x 2' Deep Tree Pit	613.64	
32 93 53 00-0086 EA 4-1/2' x 4' Deep Tree Pit	922.19	
32 93 53 00-0087 EA 5' x 2-1/4' Deep Tree Pit	816.20	
32 93 53 00-0088 EA 5' x 4-1/2' Deep Tree Pit	1,216.20	
32 93 53 00-0089 EA 6' x 2-1/2' Deep Tree Pit	1,157.49	
32 93 53 00-0090 EA 6' x 5' Deep Tree Pit.....	1,733.81	
32 93 53 00-0091 EA 7' x 3' Deep Tree Pit.....	1,950.51	
32 93 53 00-0092 EA 7' x 6' Deep Tree Pit.....	2,940.52	
32 93 53 00-0093 EA 8' x 3-1/4' Deep Tree Pit	2,684.02	
32 93 53 00-0094 EA 8' x 6-1/2' Deep Tree Pit	4,024.41	

32 94 Planting Accessories (32 90)**32 94 13 Landscape Edging (32 94)**

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002 LF 6" Poly/Vinyl Landscape Edging With Non-Round Top.....	3.71	0.87
For >2,000 To 5,000 LF, Deduct	-0.20	
For >5,000 LF, Deduct	-0.40	



Exterior Improvements		32
Planting		32 90
Planting Accessories		32 94

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 13 00-0003	LF	5" Polyethylene Landscape Edging With Round Top.....	2.35	0.87	
		For >2,000 To 5,000 LF, Deduct	-0.06		
		For >5,000 LF, Deduct	-0.12		
32 94 13 00-0004	LF	5-1/2" Polyethylene Landscape Edging With Round Top	2.39	0.87	
		For >2,000 To 5,000 LF, Deduct	-0.07		
		For >5,000 LF, Deduct	-0.13		
32 94 13 00-0005	LF	5" Polyethylene Landscape Edging With Corrugated Sides And Round Top	2.41	0.87	
		For >2,000 To 5,000 LF, Deduct	-0.07		
		For >5,000 LF, Deduct	-0.14		
32 94 13 00-0006	LF	1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	6.64	2.06	
		For >1,000 LF, Deduct	-0.63		
32 94 13 00-0007	LF	1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	7.16	2.06	
		For >1,000 LF, Deduct	-0.76		
32 94 13 00-0008	LF	1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	7.20	2.06	
		For >1,000 LF, Deduct	-0.77		
32 94 13 00-0009	LF	3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	8.13	2.13	
		For >1,000 LF, Deduct	-0.98		
32 94 13 00-0010	LF	3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	8.77	2.13	
		For >1,000 LF, Deduct	-1.14		
32 94 13 00-0011	LF	3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	8.76	2.13	
		For >1,000 LF, Deduct	-1.14		
32 94 13 00-0012	LF	1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	7.38	2.20	
		For >1,000 LF, Deduct	-0.76		
32 94 13 00-0013	LF	1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging.....	8.10	2.20	
		For >1,000 LF, Deduct	-0.94		
32 94 13 00-0014	LF	1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	8.17	2.20	
		For >1,000 LF, Deduct	-0.96		
32 94 13 00-0015	LF	3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	9.10	2.26	
		For >1,000 LF, Deduct	-1.16		
32 94 13 00-0016	LF	3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging.....	9.82	2.26	
		For >1,000 LF, Deduct	-1.34		
32 94 13 00-0017	LF	3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	9.88	2.26	
		For >1,000 LF, Deduct	-1.36		
32 94 13 00-0018	LF	1/8" x 4" Powder Coated Steel Landscape Edging.....	7.02	2.13	
		For >1,000 LF, Deduct	-0.69		
32 94 13 00-0019	LF	3/16" x 4" Powder Coated Steel Landscape Edging	8.08	2.13	
		For >1,000 LF, Deduct	-0.96		
32 94 13 00-0020	LF	1/4" x 5" Powder Coated Steel Landscape Edging.....	10.91	2.13	
		For >1,000 LF, Deduct	-1.67		
32 94 13 00-0021	LF	1/2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	5.50	2.06	
		For >1,000 LF, Deduct	-0.35		
32 94 13 00-0022	LF	1" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	6.13	2.06	
		For >1,000 LF, Deduct	-0.51		
32 94 13 00-0023	LF	1" x 6", Recycled Plastic Landscape Edging (Bend-A-Board).....	6.68	2.06	
		For >1,000 LF, Deduct	-0.64		
32 94 13 00-0024	LF	2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	6.79	2.06	
		For >1,000 LF, Deduct	-0.67		
32 94 13 00-0025	LF	4-1/2" x 12" Granite Edging	24.60	10.87	
32 94 13 00-0026	LF	2" x 8" x 16" Precast Scallops, Green.....	4.90	1.57	
32 94 13 00-0027	LF	2" x 8" x 16" Precast Scallops, Other Than Green.....	4.55	1.57	
32 94 13 00-0028	LF	Brick, Set Horizontally, 1-1/2 Per LF.....	5.38	1.72	
32 94 13 00-0029	LF	Brick, Set Horizontally, 3 Per LF.....	13.31	4.70	
32 94 13 00-0030	LF	"V" Trenching By Machine, 4" Deep x 4" Wide	1.73		

32 94 16 Landscape Timbers (32 94)

32 94 16 00-0001	LF	1" x 4" Redwood Edging	3.83	1.37	
32 94 16 00-0002	LF	2" x 4" Redwood Edging	5.31	2.05	
32 94 16 00-0003	LF	4" x 6" Pressure Treated Hardwood	8.53	2.74	
32 94 16 00-0004	LF	6" x 6" Pressure Treated Hardwood	11.19	3.42	
32 94 16 00-0005	LF	6" x 8" Pressure Treated Hardwood	13.02	4.02	
32 94 16 00-0006	LF	1" x 4" Pressure Treated Pine.....	3.26	1.37	
32 94 16 00-0007	LF	2" x 4" Pressure Treated Pine.....	4.94	2.05	
32 94 16 00-0008	LF	4" x 6" Pressure Treated Pine.....	8.09	2.66	
32 94 16 00-0009	LF	6" x 6" Pressure Treated Pine.....	11.09	3.42	
32 94 16 00-0010	LF	6" x 8" Pressure Treated Pine.....	13.62	4.02	
32 94 16 00-0011	LF	6" x 8" Railroad Ties	10.93	3.84	
32 94 16 00-0012	LF	7" x 9" Railroad Ties	13.24	4.82	

32 94 23 Plant Protection (32 94)

32 94 23 00-0001	SF	Tree Trunk Protection - Hardware Cloth 1/4" Mesh, 23 Gauge	2.05		

32 94 43 Tree Grates (32 94)**32 94 43 00-0001 Tree Grates With Frames** (32 94 43)**32 94 43 00-0002 Round Cast Iron Tree Grates With Frames** (32 94 43 00-0001)

32 94 43 00-0003	EA	32" Diameter, 100 To 150 LB Cast Iron Tree Grate With Frame	610.89	50.89	
32 94 43 00-0004	EA	36" Diameter, 125 To 175 LB Cast Iron Tree Grate With Frame	703.44	50.89	
32 94 43 00-0005	EA	42" Diameter, 150 To 200 LB Cast Iron Tree Grate With Frame	853.07	67.85	
32 94 43 00-0006	EA	48" Diameter, 200 To 250 LB Cast Iron Tree Grate With Frame	1,054.53	67.85	

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0007 EA 54" Diameter, 300 To 350 LB Cast Iron Tree Grate With Frame	1,351.16	84.83
32 94 43 00-0008 EA 60" Diameter, Up To 350 LB Cast Iron Tree Grate With Frame	1,423.21	101.79
32 94 43 00-0009 EA 60" Diameter, >350 LB Cast Iron Tree Grate With Frame	1,563.41	101.79
32 94 43 00-0010 EA 72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame	2,085.18	144.20
32 94 43 00-0011 EA 72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame	2,166.86	144.20
32 94 43 00-0012 EA 72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame	2,234.92	144.20
32 94 43 00-0013 EA 72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame	2,289.36	144.20
32 94 43 00-0014 EA 72" Diameter, >700 LB Cast Iron Tree Grate With Frame	2,330.20	144.20
32 94 43 00-0015 EA 93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame	2,560.77	169.64
32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)		
32 94 43 00-0017 EA 30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame	564.60	50.89
32 94 43 00-0018 EA 36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame	680.30	50.89
32 94 43 00-0019 EA 48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame	1,013.58	84.83
32 94 43 00-0020 EA 48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame	1,190.54	84.83
32 94 43 00-0021 EA 48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame	1,353.88	84.83
32 94 43 00-0022 EA 48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame	1,503.62	84.83
32 94 43 00-0023 EA 48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame	1,639.74	84.83
32 94 43 00-0024 EA 48" x 48", >400 LB Cast Iron Tree Grate With Frame	1,762.24	84.83
32 94 43 00-0025 EA 60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame	1,707.61	118.75
32 94 43 00-0026 EA 60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame	1,830.11	118.75
32 94 43 00-0027 EA 60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame	1,939.01	118.75
32 94 43 00-0028 EA 60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame	2,034.29	118.75
32 94 43 00-0029 EA 60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame	2,115.97	118.75
32 94 43 00-0030 EA 60" x 60", >600 LB Cast Iron Tree Grate With Frame	2,184.03	118.75
32 94 43 00-0031 EA 72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame	2,085.18	144.20
32 94 43 00-0032 EA 72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame	2,166.86	144.20
32 94 43 00-0033 EA 72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame	2,234.92	144.20
32 94 43 00-0034 EA 72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame	2,289.36	144.20
32 94 43 00-0035 EA 72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame	2,330.20	144.20
32 94 43 00-0036 EA 72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame	2,357.42	144.20
32 94 43 00-0037 EA 72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame	2,371.04	144.20
32 94 43 00-0038 EA 72" x 72", >850 LB Cast Iron Tree Grate With Frame	2,384.65	144.20
32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)		
32 94 43 00-0040 EA 36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame	1,054.53	67.85
32 94 43 00-0041 EA 36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame	1,074.95	67.85
32 94 43 00-0042 EA 36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame	1,314.41	84.83
32 94 43 00-0043 EA 48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame	1,541.73	84.83
32 94 43 00-0044 EA 48" x 72", >350 LB Cast Iron Tree Grate With Frame	1,639.74	84.83
32 94 43 00-0045 EA 60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame	2,207.69	144.20
32 94 49 Plant And Tree Accessories (32 94)		
32 94 49 00-0001 Tree Guying (32 94 49)		
32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)		
Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.		
32 94 49 00-0003 EA Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap	19.32	
32 94 49 00-0004 EA Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap	33.86	
32 94 49 00-0005 EA Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap	58.25	
32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)		
Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.		
32 94 49 00-0007 EA Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope	82.03	
32 94 49 00-0008 EA Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope	110.76	
32 94 49 00-0009 EA Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope	142.27	
32 94 49 00-0010 EA Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope	183.18	
32 94 49 00-0011 Tree Wrap (32 94 49)		
32 94 49 00-0012 EA Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree	5.05	
32 94 49 00-0013 EA Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree	8.32	
32 94 49 00-0014 EA Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree	16.34	
32 94 49 00-0015 EA Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree	24.95	
32 94 49 00-0016 Tree Guards (32 94 49)		
32 94 49 00-0017 EA 3' Preformed Plastic Tree Guard	8.73	
32 94 49 00-0018 EA 2' Preformed Plastic Tree Guard	7.97	
32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)		
Note: When no design available.		
32 94 49 00-0020 EA Stake Out Trees Or Shrubs	5.21	



Exterior Improvements		32
Planting		32 90
Planting Accessories		32 94

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 49 00-0021			Root Barriers (32 94 49)		
32 94 49 00-0022	EA		12" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	7.79	
32 94 49 00-0023	EA		18" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	10.77	
32 94 49 00-0024	EA		24" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	12.66	
32 94 49 00-0025	EA		36" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	23.18	
32 94 49 00-0026	EA		48" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	31.82	
32 96			Transplanting (32 96)		
See CSI section 32 94 49 00-0001 for guying.					
32 96 33			Shrub Transplanting (32 96)		
Note: Includes digging up, moving on site, digging new hole and replanting.					
32 96 33 00-0001			Moving Shrubs On Site, Relocate (32 96 33)		
Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.					
32 96 33 00-0002	EA		Up To 18" Root Ball, Move Shrubs On Site	58.00	
			For >25 To 50, Deduct	-5.80	
			For >50, Deduct	-8.70	
32 96 33 00-0003	EA		>18" To 24" Root Ball, Move Shrubs On Site	78.47	
			For >25 To 50, Deduct	-7.85	
			For >50, Deduct	-11.77	
32 96 33 00-0004	EA		>24" To 30" Root Ball, Move Shrubs On Site	133.05	
			For >25 To 50, Deduct	-13.31	
			For >50, Deduct	-19.96	
32 96 33 00-0005	EA		>30" To 36" Root Ball, Move Shrubs On Site	204.70	
			For >25 To 50, Deduct	-20.47	
			For >50, Deduct	-30.71	
32 96 43			Tree Transplanting (32 96)		
Note: Includes digging up, moving on site, digging new hole and replanting.					
32 96 43 00-0001			Moving Trees On Site, Relocate (32 96 43)		
Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 32 94 49 00-0001 for guying.					
32 96 43 00-0002	EA		Up To 24" Root Ball, Move Trees On Site	222.10	
			For >5 To 10, Deduct	-11.11	
			For >10 To 20, Deduct	-22.21	
			For >20, Deduct	-33.32	
32 96 43 00-0003	EA		>24" To 30" Root Ball, Move Trees On Site.....	304.60	
			For >5 To 10, Deduct	-15.23	
			For >10 To 20, Deduct	-30.46	
			For >20, Deduct	-45.69	
32 96 43 00-0004	EA		>30" To 36" Root Ball, Move Trees On Site.....	493.57	
			For >5 To 10, Deduct	-24.68	
			For >10 To 20, Deduct	-49.36	
			For >20, Deduct	-74.04	
32 96 43 00-0005	EA		>36" To 48" Root Ball, Move Trees On Site.....	820.09	
			For >5 To 10, Deduct	-41.00	
			For >10 To 20, Deduct	-82.01	
			For >20, Deduct	-123.01	
32 96 43 00-0006	EA		>48" To 60" Root Ball, Move Trees On Site.....	1,332.64	
			For >5 To 10, Deduct	-66.63	
			For >10 To 20, Deduct	-133.26	
			For >20, Deduct	-199.90	
32 96 43 00-0007	EA		>60" To 72" Root Ball, Move Trees On Site.....	1,719.54	
			For >5 To 10, Deduct	-85.98	
			For >10 To 20, Deduct	-171.95	
			For >20, Deduct	-257.93	
32 96 43 00-0008	EA		>72" To 84" Root Ball, Move Trees On Site.....	2,221.06	
			For >5 To 10, Deduct	-111.05	
			For >10 To 20, Deduct	-222.11	
			For >20, Deduct	-333.16	
32 96 43 00-0009	EA		>84" To 96" Root Ball, Move Trees On Site.....	2,665.28	
			For >5 To 10, Deduct	-133.26	
			For >10 To 20, Deduct	-266.53	
			For >20, Deduct	-399.79	
32 96 43 00-0010	EA		>96" To 120" Root Ball, Move Trees On Site.....	3,028.72	
			For >5 To 10, Deduct	-151.44	
			For >10 To 20, Deduct	-302.87	
			For >20, Deduct	-454.31	

END OF SECTION 32

32	32	Exterior Improvements	
	32 90	Planting	
	32 96	Transplanting	



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT	COST	UNIT COST

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Utilities			33	33
Operation And Maintenance Of Utilities			33 01	
Operation And Maintenance Of Water Utilities			33 01 10	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 Utilities

33 01 Operation And Maintenance Of Utilities⁽³³⁾

33 01 10 Operation And Maintenance Of Water Utilities^(33 01)

33 01 10 58 Disinfection of Water Utility Piping Systems^(33 01 10)

33 01 10 58-0001 Water Main Disinfection/Sterilization^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	780.57
33 01 10 58-0003	EA	Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	390.28
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization.....	0.30
		For >250 To 500, Deduct	-0.02
		For >500 To 1,000, Deduct	-0.03
		For >1,000 To 2,000, Deduct	-0.05
		For >2,000 To 5,000, Deduct	-0.06
		For >5,000, Deduct	-0.08
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization.....	0.45
		For >250 To 500, Deduct	-0.02
		For >500 To 1,000, Deduct	-0.05
		For >1,000 To 2,000, Deduct	-0.07
		For >2,000 To 5,000, Deduct	-0.09
		For >5,000, Deduct	-0.11
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization.....	0.58
		For >250 To 500, Deduct	-0.03
		For >500 To 1,000, Deduct	-0.06
		For >1,000 To 2,000, Deduct	-0.09
		For >2,000 To 5,000, Deduct	-0.12
		For >5,000, Deduct	-0.15
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization.....	0.69
		For >250 To 500, Deduct	-0.03
		For >500 To 1,000, Deduct	-0.07
		For >1,000 To 2,000, Deduct	-0.10
		For >2,000 To 5,000, Deduct	-0.14
		For >5,000, Deduct	-0.17
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization.....	0.90
		For >250 To 500, Deduct	-0.05
		For >500 To 1,000, Deduct	-0.09
		For >1,000 To 2,000, Deduct	-0.14
		For >2,000 To 5,000, Deduct	-0.18
		For >5,000, Deduct	-0.23
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization.....	1.02
		For >250 To 500, Deduct	-0.05
		For >500 To 1,000, Deduct	-0.10
		For >1,000 To 2,000, Deduct	-0.15
		For >2,000 To 5,000, Deduct	-0.20
		For >5,000, Deduct	-0.26
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization.....	1.17
		For >250 To 500, Deduct	-0.06
		For >500 To 1,000, Deduct	-0.12
		For >1,000 To 2,000, Deduct	-0.18
		For >2,000 To 5,000, Deduct	-0.23
		For >5,000, Deduct	-0.29
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization.....	1.38
		For >250 To 500, Deduct	-0.07
		For >500 To 1,000, Deduct	-0.14
		For >1,000 To 2,000, Deduct	-0.21
		For >2,000 To 5,000, Deduct	-0.28
		For >5,000, Deduct	-0.35
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization.....	1.77
		For >250 To 500, Deduct	-0.09
		For >500 To 1,000, Deduct	-0.18
		For >1,000 To 2,000, Deduct	-0.27
		For >2,000 To 5,000, Deduct	-0.35
		For >5,000, Deduct	-0.44
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization.....	2.60
		For >250 To 500, Deduct	-0.13
		For >500 To 1,000, Deduct	-0.26
		For >1,000 To 2,000, Deduct	-0.39
		For >2,000 To 5,000, Deduct	-0.52
		For >5,000, Deduct	-0.65
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization.....	3.60
		For >250 To 500, Deduct	-0.18
		For >500 To 1,000, Deduct	-0.36
		For >1,000 To 2,000, Deduct	-0.54
		For >2,000 To 5,000, Deduct	-0.72
		For >5,000, Deduct	-0.90

33 01 30 Operation And Maintenance Of Sewer Utilities^(33 01)

33 01 30 11 Television Inspection Of Pipelines^(33 01 30)

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001	Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)		
33 01 30 11-0002	Video Camera Set-up (33 01 30 11-0001)		
33 01 30 11-0003	EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert 687.73 Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.		
33 01 30 11-0004	EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....1,375.46 Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).		
33 01 30 11-0005	EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert 2,063.19		
33 01 30 11-0006	EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert 343.86		
33 01 30 11-0007	EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert 687.73		
33 01 30 11-0008	Video Camera Planning And Analysis Inspection (33 01 30 11-0001)		
	Note: For pipe interior and culverts.		
33 01 30 11-0009	LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase 1.75 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.18	
	For >1,000 To 5,000, Deduct	-0.44	
	For >5,000, Deduct	-0.61	
33 01 30 11-0010	LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase 2.32 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.23	
	For >1,000 To 5,000, Deduct	-0.58	
	For >5,000, Deduct	-0.81	
33 01 30 11-0011	LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase 2.91 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.29	
	For >1,000 To 5,000, Deduct	-0.73	
	For >5,000, Deduct	-1.02	
33 01 30 11-0012	LF >21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase 3.87 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.39	
	For >1,000 To 5,000, Deduct	-0.97	
	For >5,000, Deduct	-1.35	
33 01 30 11-0013	LF >30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase 5.45 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.55	
	For >1,000 To 5,000, Deduct	-1.36	
	For >5,000, Deduct	-1.91	
33 01 30 11-0014	LF >42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase 7.26 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.73	
	For >1,000 To 5,000, Deduct	-1.82	
	For >5,000, Deduct	-2.54	
33 01 30 11-0015	LF >60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase 10.26 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-1.03	
	For >1,000 To 5,000, Deduct	-2.57	
	For >5,000, Deduct	-3.59	
33 01 30 11-0016	LF >72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase 14.53 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-1.45	
	For >1,000 To 5,000, Deduct	-3.63	
	For >5,000, Deduct	-5.09	
33 01 30 11-0017	Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0018	LF 4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase 2.58 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.26	
	For >1,000 To 5,000, Deduct	-0.65	
	For >5,000, Deduct	-0.90	
33 01 30 11-0019	LF >6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase 3.44 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.34	
	For >1,000 To 5,000, Deduct	-0.86	
	For >5,000, Deduct	-1.20	
33 01 30 11-0020	LF >12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase 4.30 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.43	
	For >1,000 To 5,000, Deduct	-1.08	
	For >5,000, Deduct	-1.51	
33 01 30 11-0021	LF >21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase 5.74 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.57	
	For >1,000 To 5,000, Deduct	-1.44	
	For >5,000, Deduct	-2.01	
33 01 30 11-0022	LF >30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase 8.06 Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.81	
	For >1,000 To 5,000, Deduct	-2.02	
	For >5,000, Deduct	-2.82	



		Utilities	33	
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0023 LF >42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase 10.74 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -1.07 For >1,000 To 5,000, Deduct -2.69 For >5,000, Deduct -3.76		
33 01 30 11-0024 LF >60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase 15.17 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -1.52 For >1,000 To 5,000, Deduct -3.79 For >5,000, Deduct -5.31		
33 01 30 11-0025 LF >72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase 21.49 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -2.15 For >1,000 To 5,000, Deduct -5.37 For >5,000, Deduct -7.52		
33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0027 LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase 1.84 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -0.18 For >1,000 To 5,000, Deduct -0.46 For >5,000, Deduct -0.64		
33 01 30 11-0028 LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase 2.45 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -0.25 For >1,000 To 5,000, Deduct -0.61 For >5,000, Deduct -0.86		
33 01 30 11-0029 LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase 3.07 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -0.31 For >1,000 To 5,000, Deduct -0.77 For >5,000, Deduct -1.07		
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase 4.09 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -0.41 For >1,000 To 5,000, Deduct -1.02 For >5,000, Deduct -1.43		
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase 5.76 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -0.58 For >1,000 To 5,000, Deduct -1.44 For >5,000, Deduct -2.02		
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase 7.68 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -0.77 For >1,000 To 5,000, Deduct -1.92 For >5,000, Deduct -2.69		
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase 10.83 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -1.08 For >1,000 To 5,000, Deduct -2.71 For >5,000, Deduct -3.79		
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase 15.35 Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct -1.54 For >1,000 To 5,000, Deduct -3.84 For >5,000, Deduct -5.37		
33 01 30 41 Cleaning of Sewers (33 01 30)		
33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41) Note: Includes flushing. Owner provided water.		
33 01 30 41-0002 Pipe Line Cleaning (33 01 30 41-0001) Note: Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0003 Hydro Jet Set-up And Reinsertion (33 01 30 41-0002)		
33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Jet Cleaning 2,119.15		
33 01 30 41-0005 EA Move And Reset Up At Different Access/Location For Jet Cleaning 529.78		
33 01 30 41-0006 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)		
33 01 30 41-0007 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes 2.84 For >250 To 500, Deduct -0.14 For >500 To 1,000, Deduct -0.28 For >1,000 To 2,000, Deduct -0.43 For >2,000 To 5,000, Deduct -0.57 For >5,000, Deduct -0.71 For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add 2.13		

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0008 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.27	
For >250 To 500, Deduct	-0.16	
For >500 To 1,000, Deduct	-0.33	
For >1,000 To 2,000, Deduct	-0.49	
For >2,000 To 5,000, Deduct	-0.65	
For >5,000, Deduct	-0.82	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.45	
33 01 30 41-0009 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.84	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.38	
For >1,000 To 2,000, Deduct	-0.58	
For >2,000 To 5,000, Deduct	-0.77	
For >5,000, Deduct	-0.96	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.88	
33 01 30 41-0010 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.75	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.48	
For >1,000 To 2,000, Deduct	-0.71	
For >2,000 To 5,000, Deduct	-0.95	
For >5,000, Deduct	-1.19	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.56	
33 01 30 41-0011 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.39	
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.54	
For >1,000 To 2,000, Deduct	-0.81	
For >2,000 To 5,000, Deduct	-1.08	
For >5,000, Deduct	-1.35	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.04	
33 01 30 41-0012 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	6.22	
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.62	
For >1,000 To 2,000, Deduct	-0.93	
For >2,000 To 5,000, Deduct	-1.24	
For >5,000, Deduct	-1.56	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.67	
33 01 30 41-0013 LF >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	7.48	
For >250 To 500, Deduct	-0.37	
For >500 To 1,000, Deduct	-0.75	
For >1,000 To 2,000, Deduct	-1.12	
For >2,000 To 5,000, Deduct	-1.50	
For >5,000, Deduct	-1.87	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.61	
33 01 30 41-0014 LF >24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	8.50	
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.85	
For >1,000 To 2,000, Deduct	-1.28	
For >2,000 To 5,000, Deduct	-1.70	
For >5,000, Deduct	-2.13	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	6.38	
33 01 30 41-0015 LF >30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	10.04	
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-1.00	
For >1,000 To 2,000, Deduct	-1.51	
For >2,000 To 5,000, Deduct	-2.01	
For >5,000, Deduct	-2.51	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	7.53	
33 01 30 41-0016 LF >42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	12.62	
For >250 To 500, Deduct	-0.63	
For >500 To 1,000, Deduct	-1.26	
For >1,000 To 2,000, Deduct	-1.89	
For >2,000 To 5,000, Deduct	-2.52	
For >5,000, Deduct	-3.16	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	9.47	
33 01 30 41-0017 LF >60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	14.72	
For >250 To 500, Deduct	-0.74	
For >500 To 1,000, Deduct	-1.47	
For >1,000 To 2,000, Deduct	-2.21	
For >2,000 To 5,000, Deduct	-2.94	
For >5,000, Deduct	-3.68	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	11.04	
33 01 30 41-0018 Flushing Of Storm Water Pipelines (33 01 30 41-0002)		
Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0019 LF 12" To 16" Diameter Pipe Line Flushing	1.09	
For >250 To 500, Deduct	-0.05	
For >500 To 1,000, Deduct	-0.11	
For >1,000 To 2,000, Deduct	-0.16	
For >2,000 To 5,000, Deduct	-0.22	
For >5,000, Deduct	-0.27	
33 01 30 41-0020 LF >16" To 24" Diameter Pipe Line Flushing	1.25	
For >250 To 500, Deduct	-0.06	
For >500 To 1,000, Deduct	-0.13	
For >1,000 To 2,000, Deduct	-0.19	
For >2,000 To 5,000, Deduct	-0.25	
For >5,000, Deduct	-0.31	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0021	LF		>24" To 30" Diameter Pipe Line Flushing.....	1.47	
			For >250 To 500, Deduct	-0.07	
			For >500 To 1,000, Deduct	-0.15	
			For >1,000 To 2,000, Deduct	-0.22	
			For >2,000 To 5,000, Deduct	-0.29	
			For >5,000, Deduct	-0.37	
33 01 30 41-0022	LF		>30" To 42" Diameter Pipe Line Flushing.....	1.70	
			For >250 To 500, Deduct	-0.09	
			For >500 To 1,000, Deduct	-0.17	
			For >1,000 To 2,000, Deduct	-0.26	
			For >2,000 To 5,000, Deduct	-0.34	
			For >5,000, Deduct	-0.43	
33 01 30 41-0023	LF		>42" To 60" Diameter Pipe Line Flushing.....	2.27	
			For >250 To 500, Deduct	-0.11	
			For >500 To 1,000, Deduct	-0.23	
			For >1,000 To 2,000, Deduct	-0.34	
			For >2,000 To 5,000, Deduct	-0.45	
			For >5,000, Deduct	-0.57	
33 01 30 41-0024			Hydro Jet Cleaning Of Culverts ^(33 01 30 41-0002)		
33 01 30 41-0025	LF		Jet Cleaning Of Culvert, 0-250 LF.....	13.18	
			For >250 To 500, Deduct	-0.66	
			For >500 To 1,000, Deduct	-1.32	
			For >1,000 To 2,000, Deduct	-1.98	
			For >2,000 To 5,000, Deduct	-2.64	
			For >5,000, Deduct	-3.30	
33 01 30 41-0026			Pipe Line Cleaning, Mechanical Method ^(33 01 30 41-0001)		
			Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0027	EA		Initial Set Up And Final Equipment Removal For Mechanical Cleaning.....	936.68	
33 01 30 41-0028	EA		Move And Reset Up At Different Access/Location.....	312.23	
33 01 30 41-0029	LF		Up To 4" Diameter Pipe Line Cleaning, Mechanical Method.....	5.36	
			For >250 To 500, Deduct	-0.26	
			For >500 To 1,000, Deduct	-0.52	
			For >1,000 To 2,000, Deduct	-0.78	
			For >2,000 To 5,000, Deduct	-1.04	
			For >5,000, Deduct	-1.30	
33 01 30 41-0030	LF		6" Diameter Pipe Line Cleaning, Mechanical Method.....	7.02	
			For >250 To 500, Deduct	-0.33	
			For >500 To 1,000, Deduct	-0.67	
			For >1,000 To 2,000, Deduct	-1.00	
			For >2,000 To 5,000, Deduct	-1.34	
			For >5,000, Deduct	-1.67	
33 01 30 41-0031	LF		8" Diameter Pipe Line Cleaning, Mechanical Method.....	8.21	
			For >250 To 500, Deduct	-0.39	
			For >500 To 1,000, Deduct	-0.78	
			For >1,000 To 2,000, Deduct	-1.17	
			For >2,000 To 5,000, Deduct	-1.56	
			For >5,000, Deduct	-1.95	
33 01 30 41-0032	LF		10" Diameter Pipe Line Cleaning, Mechanical Method.....	9.50	
			For >250 To 500, Deduct	-0.45	
			For >500 To 1,000, Deduct	-0.90	
			For >1,000 To 2,000, Deduct	-1.35	
			For >2,000 To 5,000, Deduct	-1.80	
			For >5,000, Deduct	-2.25	
33 01 30 41-0033	LF		12" Diameter Pipe Line Cleaning, Mechanical Method.....	10.34	
			For >250 To 500, Deduct	-0.49	
			For >500 To 1,000, Deduct	-0.98	
			For >1,000 To 2,000, Deduct	-1.46	
			For >2,000 To 5,000, Deduct	-1.95	
			For >5,000, Deduct	-2.44	
33 01 30 41-0034	LF		>12" To 16" Diameter Pipe Line Cleaning, Mechanical Method.....	11.89	
			For >250 To 500, Deduct	-0.56	
			For >500 To 1,000, Deduct	-1.12	
			For >1,000 To 2,000, Deduct	-1.67	
			For >2,000 To 5,000, Deduct	-2.23	
			For >5,000, Deduct	-2.79	
33 01 30 41-0035	LF		>16" To 24" Diameter Pipe Line Cleaning, Mechanical Method.....	14.92	
			For >250 To 500, Deduct	-0.69	
			For >500 To 1,000, Deduct	-1.38	
			For >1,000 To 2,000, Deduct	-2.07	
			For >2,000 To 5,000, Deduct	-2.75	
			For >5,000, Deduct	-3.44	
33 01 30 41-0036	LF		>24" To 30" Diameter Pipe Line Cleaning, Mechanical Method.....	17.01	
			For >250 To 500, Deduct	-0.77	
			For >500 To 1,000, Deduct	-1.54	
			For >1,000 To 2,000, Deduct	-2.30	
			For >2,000 To 5,000, Deduct	-3.07	
			For >5,000, Deduct	-3.84	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0037 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method.....	19.73	
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-1.77	
For >1,000 To 2,000, Deduct	-2.65	
For >2,000 To 5,000, Deduct	-3.53	
For >5,000, Deduct	-4.42	
33 01 30 41-0038 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method.....	25.88	
For >250 To 500, Deduct	-1.17	
For >500 To 1,000, Deduct	-2.34	
For >1,000 To 2,000, Deduct	-3.51	
For >2,000 To 5,000, Deduct	-4.68	
For >5,000, Deduct	-5.85	
33 01 30 41-0039 LF >60" Diameter Pipe Line Cleaning, Mechanical Method.....	29.32	
For >250 To 500, Deduct	-1.30	
For >500 To 1,000, Deduct	-2.60	
For >1,000 To 2,000, Deduct	-3.90	
For >2,000 To 5,000, Deduct	-5.20	
For >5,000, Deduct	-6.51	
33 01 30 41-0040 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)		
33 01 30 41-0041 EA Initial Set Up And Final Equipment Removal For Auguring.....	936.68	
33 01 30 41-0042 EA Move And Reset Up At Different Location	312.23	
33 01 30 41-0043 LF Up To 4" Diameter Pipe Line Auguring/Rod Out.....	3.12	
For >250 To 500, Deduct	-0.16	
For >500 To 1,000, Deduct	-0.31	
For >1,000 To 2,000, Deduct	-0.47	
For >2,000 To 5,000, Deduct	-0.62	
For >5,000, Deduct	-0.78	
33 01 30 41-0044 LF 6" Diameter Pipe Line Auguring/Rod Out.....	4.03	
For >250 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.40	
For >1,000 To 2,000, Deduct	-0.60	
For >2,000 To 5,000, Deduct	-0.81	
For >5,000, Deduct	-1.01	
33 01 30 41-0045 LF 8" Diameter Pipe Line Auguring/Rod Out.....	4.68	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.47	
For >1,000 To 2,000, Deduct	-0.70	
For >2,000 To 5,000, Deduct	-0.94	
For >5,000, Deduct	-1.17	
33 01 30 41-0046 LF 10" Diameter Pipe Line Auguring/Rod Out.....	5.45	
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.55	
For >1,000 To 2,000, Deduct	-0.82	
For >2,000 To 5,000, Deduct	-1.09	
For >5,000, Deduct	-1.36	
33 01 30 41-0047 LF 12" Diameter Pipe Line Auguring/Rod Out.....	5.85	
For >250 To 500, Deduct	-0.29	
For >500 To 1,000, Deduct	-0.59	
For >1,000 To 2,000, Deduct	-0.88	
For >2,000 To 5,000, Deduct	-1.17	
For >5,000, Deduct	-1.46	
33 01 30 41-0048 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out.....	6.69	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.67	
For >1,000 To 2,000, Deduct	-1.00	
For >2,000 To 5,000, Deduct	-1.34	
For >5,000, Deduct	-1.67	
33 01 30 41-0049 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out.....	8.22	
For >250 To 500, Deduct	-0.41	
For >500 To 1,000, Deduct	-0.82	
For >1,000 To 2,000, Deduct	-1.23	
For >2,000 To 5,000, Deduct	-1.64	
For >5,000, Deduct	-2.06	
33 01 30 41-0050 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out.....	9.18	
For >250 To 500, Deduct	-0.46	
For >500 To 1,000, Deduct	-0.92	
For >1,000 To 2,000, Deduct	-1.38	
For >2,000 To 5,000, Deduct	-1.84	
For >5,000, Deduct	-2.30	
33 01 30 41-0051 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out.....	10.65	
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-1.07	
For >1,000 To 2,000, Deduct	-1.60	
For >2,000 To 5,000, Deduct	-2.13	
For >5,000, Deduct	-2.66	
33 01 30 41-0052 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out	14.64	
For >250 To 500, Deduct	-0.73	
For >500 To 1,000, Deduct	-1.46	
For >1,000 To 2,000, Deduct	-2.20	
For >2,000 To 5,000, Deduct	-2.93	
For >5,000, Deduct	-3.66	



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		Operation And Maintenance Of Utilities	33 01	
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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0053	LF >60" Diameter Pipe Line Auguring/Rod Out For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	15.61 -0.78 -1.56 -2.34 -3.12 -3.90	
33 01 30 42 Cleaning of Manholes (33 01 30)			
33 01 30 42-0001	Structure Cleaning And Flushing (33 01 30 42) Note: Includes flushing. Owner provided water.		
33 01 30 42-0002	Rod Out Structures And Other Hand Operations (33 01 30 42-0001)		
33 01 30 42-0003	EA Rod Out Sewer Catch Basin	81.69	
33 01 30 42-0004	EA Clean Out Debris From Entrance To Inlet Structure	204.22	
33 01 30 42-0005	EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand..... For >10 To 100, Deduct For >100 To 250, Deduct For >250, Deduct	679.04 -101.86 -152.78 -203.71	
33 01 30 42-0006	EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand..... For >10 To 100, Deduct For >100 To 250, Deduct For >250, Deduct	814.84 -122.23 -183.34 -244.45	
33 01 30 42-0007	EA Clean Out Blocked Catch Basin By Hand..... For >10 To 100, Deduct For >100 To 250, Deduct For >250, Deduct	407.43 -61.11 -91.67 -122.23	
33 01 30 42-0008	EA Up To 6" Diameter Pipe, Rod Out Blockage	16.33	
33 01 30 42-0009	EA 8" Diameter Pipe, Rod Out Blockage.....	17.97	
33 01 30 42-0010	EA 10" Diameter Pipe, Rod Out Blockage.....	20.42	
33 01 30 42-0011	EA 12" Diameter Pipe, Rod Out Blockage.....	23.69	
33 01 30 42-0012	EA >12" To 16" Diameter Pipe, Rod Out Blockage	27.77	
33 01 30 42-0013	EA >16" To 24" Diameter Pipe, Rod Out Blockage	32.68	
33 01 30 42-0014	EA >24" To 30" Diameter Pipe, Rod Out Blockage	38.39	
33 01 30 42-0015	EA >30" To 42" Diameter Pipe, Rod Out Blockage	44.11	
33 01 30 42-0016	EA >42" To 60" Diameter Pipe, Rod Out Blockage	51.47	
33 01 30 42-0017	EA >60" Diameter Pipe, Rod Out Blockage.....	61.26	
33 01 30 42-0018	Cleaning Manholes And Drainage Structures (33 01 30 42-0001) Note: Includes removal of debris. Excludes disposal.		
33 01 30 42-0019	VLF Waterblast Cleaning For 3' To 4' Diameter Manhole	88.30	
33 01 30 42-0020	VLF Waterblast Cleaning For 5' To 6' Diameter Manhole	110.38	
33 01 30 42-0021	EA Vacuum Out 1 To 2 Catch Basins Or Manholes Note: Includes vacuum pump equipment.	1,172.16	
33 01 30 42-0022	EA Vacuum Out 3 To 10 Catch Basins Or Manholes Note: Includes vacuum pump equipment.	879.12	
33 01 30 42-0023	EA Vacuum Out 11 To 25 Catch Basins Or Manholes Note: Includes vacuum pump equipment.	586.08	
33 01 30 42-0024	EA Vacuum Out 26 To 100 Catch Basins Or Manholes Note: Includes vacuum pump equipment.	512.82	
33 01 30 42-0025	EA Vacuum Out 101 To 250 Catch Basins Or Manholes Note: Includes vacuum pump equipment.	476.19	
33 01 30 42-0026	EA Vacuum Out >250 Catch Basins Or Manholes Note: Includes vacuum pump equipment.	439.56	
33 01 30 42-0027	EA Pump Out Blocked Manhole, 3' To 4' Diameter Includes Pump Equipment.....	326.75	
33 01 30 42-0028	EA Pump Out Blocked Manhole, 5' To 6' Diameter Includes Pump Equipment.....	490.12	
33 01 30 51 Maintenance Of Utilities (33 01 30)			
33 01 30 51-0001	Pipe Repair (33 01 30 51)		
33 01 30 51-0002	Pipe Repair Clamp, Full Circle, Single Band (33 01 30 51-0001) Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0003	EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) For Stainless Steel Nuts And Bolts, Add	116.20 19.70	
33 01 30 51-0004	EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) For Stainless Steel Nuts And Bolts, Add	166.10 29.69	
33 01 30 51-0005	EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) For Stainless Steel Nuts And Bolts, Add	192.29 34.96	
33 01 30 51-0006	EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) For Stainless Steel Nuts And Bolts, Add	219.30 40.22	
33 01 30 51-0007	EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) For Stainless Steel Nuts And Bolts, Add	125.41 21.39	
33 01 30 51-0008	EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) For Stainless Steel Nuts And Bolts, Add	176.62 31.68	
33 01 30 51-0009	EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) For Stainless Steel Nuts And Bolts, Add	202.73 36.83	
33 01 30 51-0010	EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) For Stainless Steel Nuts And Bolts, Add	234.59 43.10	
33 01 30 51-0011	EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) For Stainless Steel Nuts And Bolts, Add	135.09 23.40	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0012 EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	183.82 33.12	
33 01 30 51-0013 EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	212.81 38.83	
33 01 30 51-0014 EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	248.59 46.10	
33 01 30 51-0015 EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	152.33 26.61	
33 01 30 51-0016 EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	201.58 35.82	
33 01 30 51-0017 EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	244.56 43.61	
33 01 30 51-0018 EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	294.66 52.60	
33 01 30 51-0019 EA 4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	386.32 70.65	
33 01 30 51-0020 EA 4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	481.10 88.70	
33 01 30 51-0021 EA 4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	587.25 108.81	
33 01 30 51-0022 EA 6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	179.13 31.40	
33 01 30 51-0023 EA 6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	238.46 42.60	
33 01 30 51-0024 EA 6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	282.30 50.23	
33 01 30 51-0025 EA 6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	330.47 58.37	
33 01 30 51-0026 EA 6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	459.76 84.58	
33 01 30 51-0027 EA 6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	559.20 103.14	
33 01 30 51-0028 EA 6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	667.93 123.25	
33 01 30 51-0029 EA 8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	231.50 37.57	
33 01 30 51-0030 EA 8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	301.34 49.71	
33 01 30 51-0031 EA 8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	363.81 60.16	
33 01 30 51-0032 EA 8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	434.37 71.68	
33 01 30 51-0033 EA 8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	579.18 99.31	
33 01 30 51-0034 EA 8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	692.70 118.75	
33 01 30 51-0035 EA 8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	819.87 139.77	
33 01 30 51-0036 EA 10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	272.08 45.73	
33 01 30 51-0037 EA 10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	366.57 63.25	
33 01 30 51-0038 EA 10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	431.43 73.95	
33 01 30 51-0039 EA 10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	529.74 91.46	
33 01 30 51-0040 EA 10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	697.88 124.06	
33 01 30 51-0041 EA 10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	792.87 138.66	
33 01 30 51-0042 EA 10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,022.85 182.93	
33 01 30 51-0043 EA 12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	309.45 51.58	
33 01 30 51-0044 EA 12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	404.74 68.59	
33 01 30 51-0045 EA 12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	488.69 83.00	
33 01 30 51-0046 EA 12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	601.81 103.14	
33 01 30 51-0047 EA 12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	776.35 136.23	
33 01 30 51-0048 EA 12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	912.37 159.09	
33 01 30 51-0049 EA 12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,161.84 206.28	

33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands (33 01 30 51-0001)

Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.

33 01 30 51-0051 EA 14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	699.51 198.43	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0052	EA		14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	993.62	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	286.46	
33 01 30 51-0053	EA		14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,338.99	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	388.48	
33 01 30 51-0054	EA		14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,977.31	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	585.52	
33 01 30 51-0055	EA		15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	734.19	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	208.20	
33 01 30 51-0056	EA		15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,040.08	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	299.74	
33 01 30 51-0057	EA		15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,398.09	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	405.25	
33 01 30 51-0058	EA		15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	2,072.67	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	613.46	
33 01 30 51-0059	EA		15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	752.52	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	212.40	
33 01 30 51-0060	EA		15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,064.20	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	305.34	
33 01 30 51-0061	EA		15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,434.20	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	414.33	
33 01 30 51-0062	EA		15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	2,124.48	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	626.73	
33 01 30 51-0063	EA		16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	771.66	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	216.59	
33 01 30 51-0064	EA		16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,091.65	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	311.63	
33 01 30 51-0065	EA		16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,468.72	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	422.01	
33 01 30 51-0066	EA		16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	2,175.97	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	639.31	
33 01 30 51-0067	EA		17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	788.78	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	220.09	
33 01 30 51-0068	EA		17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,114.96	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	316.51	
33 01 30 51-0069	EA		17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,503.24	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	429.70	
33 01 30 51-0070	EA		17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	2,222.15	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	649.79	
33 01 30 51-0071	EA		17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	805.02	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	223.59	
33 01 30 51-0072	EA		17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,139.07	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	322.10	
33 01 30 51-0073	EA		17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,534.03	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	436.69	
33 01 30 51-0074	EA		17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	2,251.17	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	655.03	
33 01 30 51-0075	EA		18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	823.79	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	227.94	
33 01 30 51-0076	EA		18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,167.71	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	329.09	
33 01 30 51-0077	EA		18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	1,566.84	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	444.37	
33 01 30 51-0078	EA		18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228)	2,318.44	
			<i>For Stainless Steel Nuts And Bolts, Add</i>	673.55	

33 01 30 51-0079 Repair Couplings and Fittings (33 01 30 51-0001)

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0080		Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081		Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082	EA	1/2" Copper Compression Repair Coupling	59.63	
33 01 30 51-0083	EA	3/4" Copper Compression Repair Coupling	69.45	
33 01 30 51-0084	EA	1" Copper Compression Repair Coupling	81.62	
33 01 30 51-0085	EA	1-1/4" Copper Compression Repair Coupling	91.88	
33 01 30 51-0086	EA	1-1/2" Copper Compression Repair Coupling	140.86	
33 01 30 51-0087		Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088	EA	1/2" Copper Compression Repair 90 Degree Elbow	71.19	
33 01 30 51-0089	EA	1" Copper Compression Repair 90 Degree Elbow	83.27	
33 01 30 51-0090	EA	1-1/2" Copper Compression Repair 90 Degree Elbow	167.13	
33 01 30 51-0091	EA	1" IPS x 1" CTS 90 Degree Plain End Street Elbow	67.80	
33 01 30 51-0092	EA	3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow	60.79	
33 01 30 51-0093	EA	1" IPS x 1" CTS 90 Degree Threaded End Street Elbow	71.15	
33 01 30 51-0094	EA	1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow	87.71	
33 01 30 51-0095		Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096	EA	1/2" Copper Compression Repair Tee	129.79	
33 01 30 51-0097	EA	3/4" Copper Compression Repair Tee	102.11	
33 01 30 51-0098	EA	1" Copper Compression Repair Tee	121.22	
33 01 30 51-0099	EA	1" F x 1" M x 1" CTS Street Tee	100.74	
33 01 30 51-0100		Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101	EA	3/4" M x 1/2" CTS Male Adapter	61.43	
33 01 30 51-0102	EA	3/4" M x 3/4" CTS Male Adapter	49.82	
33 01 30 51-0103	EA	1" M x 1" CTS Male Adapter	57.08	
33 01 30 51-0104	EA	1-1/4" M x 1" CTS Male Adapter	69.85	
33 01 30 51-0105	EA	1-1/4" M x 1-1/4" CTS Male Adapter	82.84	
33 01 30 51-0106	EA	1-1/2" M x 1" CTS Male Adapter	90.66	
33 01 30 51-0107		Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108	EA	3/4" M x 3/4" CTS Female Adapter	71.76	
33 01 30 51-0109	EA	1" M x 1" CTS Female Adapter	76.53	
33 01 30 51-0110		Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111		Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110) Note: Includes gaskets.		
33 01 30 51-0112	EA	1/2" Coupling, Cast Body (Compression), 5" Middle Ring	47.07	
33 01 30 51-0113	EA	3/4" Coupling, Cast Body (Compression), 5" Middle Ring	48.18	
33 01 30 51-0114	EA	1" Coupling, Cast Body (Compression), 5" Middle Ring	54.39	
33 01 30 51-0115	EA	1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring	60.66	
33 01 30 51-0116	EA	1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring	75.03	
33 01 30 51-0117	EA	2" Coupling, Cast Body (Compression), 5" Middle Ring	91.19	
33 01 30 51-0118	EA	1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	48.30	
33 01 30 51-0119	EA	3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	49.54	
33 01 30 51-0120	EA	1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	54.59	
33 01 30 51-0121	EA	1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	61.30	
33 01 30 51-0122	EA	1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	77.09	
33 01 30 51-0123	EA	2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	92.10	
33 01 30 51-0124	EA	3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	90.50	
33 01 30 51-0125	EA	1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	105.86	
33 01 30 51-0126	EA	1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	110.53	
33 01 30 51-0127	EA	1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	124.78	
33 01 30 51-0128	EA	2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	151.76	
33 01 30 51-0129		Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110) Note: Includes armored gaskets.		
33 01 30 51-0130	EA	3/4" x 1/2" Reducing Coupling (Compression)	52.29	
33 01 30 51-0131	EA	1" x 3/4" Reducing Coupling (Compression)	55.73	
33 01 30 51-0132	EA	1-1/4" x 3/4" Reducing Coupling (Compression)	62.91	
33 01 30 51-0133	EA	1-1/4" x 1" Reducing Coupling (Compression)	65.19	
33 01 30 51-0134	EA	1-1/2" x 3/4" Reducing Coupling (Compression)	122.51	
33 01 30 51-0135	EA	1-1/2" x 1" Reducing Coupling (Compression)	78.55	
33 01 30 51-0136	EA	1-1/2" x 1-1/4" Reducing Coupling (Compression)	78.87	
33 01 30 51-0137	EA	2" x 3/4" Reducing Coupling (Compression)	146.35	
33 01 30 51-0138	EA	2" x 1" Reducing Coupling (Compression)	133.72	
33 01 30 51-0139	EA	2" x 1-1/4" Reducing Coupling (Compression)	103.68	
33 01 30 51-0140	EA	2" x 1-1/2" Reducing Coupling (Compression)	103.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0141 Steel Compression Repair Fittings, Elbows (33 01 30 51-0110) Note: Includes armored gaskets.		
33 01 30 51-0142 EA 1" 45 Degree Elbow (Compression).....	84.71	
33 01 30 51-0143 EA 1-1/4" 45 Degree Elbow (Compression)	88.67	
33 01 30 51-0144 EA 1-1/2" 45 Degree Elbow (Compression)	114.34	
33 01 30 51-0145 EA 2" 45 Degree Elbow (Compression).....	143.99	
33 01 30 51-0146 EA 3/4" 90 Degree Elbow (Compression).....	57.54	
33 01 30 51-0147 EA 1" 90 Degree Elbow (Compression).....	60.11	
33 01 30 51-0148 EA 1-1/4" 90 Degree Elbow (Compression)	70.30	
33 01 30 51-0149 EA 1-1/2" 90 Degree Elbow (Compression)	99.44	
33 01 30 51-0150 EA 2" 90 Degree Elbow (Compression).....	109.54	
33 01 30 51-0151 EA 3/4" Plain End 90 Degree Street Elbow (Compression).....	57.71	
33 01 30 51-0152 EA 1" Plain End 90 Degree Street Elbow (Compression).....	51.92	
33 01 30 51-0153 EA 1-1/4" Plain End 90 Degree Street Elbow (Compression).....	58.71	
33 01 30 51-0154 EA 1-1/2" Plain End 90 Degree Street Elbow (Compression).....	74.18	
33 01 30 51-0155 EA 2" Plain End 90 Degree Street Elbow (Compression).....	95.25	
33 01 30 51-0156 EA 3/4" Threaded End 90 Degree Street Elbow (Compression)	59.49	
33 01 30 51-0157 EA 1" Threaded End 90 Degree Street Elbow (Compression).....	55.26	
33 01 30 51-0158 EA 1-1/4" Threaded End 90 Degree Street Elbow (Compression)	71.09	
33 01 30 51-0159 EA 1-1/2" Threaded End 90 Degree Street Elbow (Compression)	85.99	
33 01 30 51-0160 EA 2" Threaded End 90 Degree Street Elbow (Compression)	120.52	
33 01 30 51-0161 Steel Compression Repair Fittings, Tees (33 01 30 51-0110) Note: Includes armored gaskets.		
33 01 30 51-0162 EA 3/4" Street Tee (Compression)	64.82	
33 01 30 51-0163 EA 1" Street Tee (Compression)	76.23	
33 01 30 51-0164 EA 1-1/4" Street Tee (Compression)	77.93	
33 01 30 51-0165 EA 1-1/2" Street Tee (Compression)	90.72	
33 01 30 51-0166 EA 2" Street Tee (Compression)	134.25	
33 01 30 51-0167 EA 1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression).....	77.29	
33 01 30 51-0168 EA 1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression).....	80.51	
33 01 30 51-0169 EA 1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression).....	100.83	
33 01 30 51-0170 EA 1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression).....	115.40	
33 01 30 51-0171 EA 1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression).....	116.05	
33 01 30 51-0172 EA 1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression).....	99.45	
33 01 30 51-0173 EA 2" x 1-1/4" x 2" Reducing Street Tee (Compression)	131.10	
33 01 30 51-0174 EA 2" x 1-1/2" x 2" Reducing Street Tee (Compression).....	147.30	
33 01 30 51-0175 EA 3/4" Welding Street Tee (Compression)	113.41	
33 01 30 51-0176 EA 1" Welding Street Tee (Compression)	114.69	
33 01 30 51-0177 EA 1-1/4" Welding Street Tee (Compression)	123.51	
33 01 30 51-0178 EA 1-1/2" Welding Street Tee (Compression)	149.02	
33 01 30 51-0179 EA 2" Welding Street Tee (Compression)	199.28	
33 01 30 51-0180 EA 3/4" Regular Tee (Compression)	85.14	
33 01 30 51-0181 EA 1" Regular Tee (Compression)	145.53	
33 01 30 51-0182 EA 1-1/4" Regular Tee (Compression)	154.28	
33 01 30 51-0183 EA 1-1/2" Regular Tee (Compression)	167.07	
33 01 30 51-0184 EA 2" Regular Tee (Compression)	186.16	
33 01 30 51-0185 EA 2" x 2" x 1-1/4" Regular Reducing Tee (Compression)	183.57	
33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110) Note: Includes armored gaskets.		
33 01 30 51-0187 EA 3/4" Male Adapter (Compression).....	57.39	
33 01 30 51-0188 EA 1" Male Adapter (Compression).....	64.15	
33 01 30 51-0189 EA 1-1/4" Male Adapter (Compression).....	82.93	
33 01 30 51-0190 EA 1-1/2" Male Adapter (Compression).....	94.27	
33 01 30 51-0191 EA 2" Male Adapter (Compression).....	106.83	
33 01 30 51-0192 EA 1" x 1-1/4" Male Adapter (Compression).....	82.51	
33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110) Note: Includes armored gaskets.		
33 01 30 51-0194 EA 3/4" Line Caps (Compression).....	30.68	
33 01 30 51-0195 EA 1" Line Caps (Compression).....	35.73	
33 01 30 51-0196 EA 1-1/4" Line Caps (Compression).....	40.85	
33 01 30 51-0197 EA 1-1/2" Line Caps (Compression).....	48.27	
33 01 30 51-0198 EA 2" Line Caps (Compression).....	59.49	
33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079) Note: Includes Buna S gasket. Dresser style 38		
33 01 30 51-0200 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket.....	38.59	
33 01 30 51-0201 EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket	49.00	
33 01 30 51-0202 EA 1" Coupling, 5" Middle Ring With Buna S Gasket	58.04	
33 01 30 51-0203 EA 1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....	71.55	
33 01 30 51-0204 EA 2" Coupling, 4" Middle Ring With Buna S Gasket	88.31	
33 01 30 51-0205 EA 2" Coupling, 5" Middle Ring With Buna S Gasket	105.57	
33 01 30 51-0206 EA 2" Coupling, 7" Middle Ring With Buna S Gasket	101.28	
33 01 30 51-0207 EA 3" Coupling, 4" Middle Ring With Buna S Gasket	136.99	
33 01 30 51-0208 EA 3" Coupling, 5" Middle Ring With Buna S Gasket	139.59	

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 MINOR
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 UNIT COST UNIT COST

33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket	142.19
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket	163.84
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket	168.25
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket	173.78
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket	206.54
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket	208.28
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket	214.62
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket	226.16
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket	230.87
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket	236.89
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket	264.55
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket	271.52
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket	277.24
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket	315.10
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket	347.99
33 01 30 51-0224	EA	12" Coupling, 5" Middle Ring With Buna S Gasket	357.64
33 01 30 51-0225	EA	12" Coupling, 7" Middle Ring With Buna S Gasket	427.36
33 01 30 51-0226	EA	14" Coupling, 7" Middle Ring With Buna S Gasket	486.76
33 01 30 51-0227	EA	16" Coupling, 7" Middle Ring With Buna S Gasket	566.75
33 01 30 51-0228	EA	18" Coupling, 7" Middle Ring With Buna S Gasket	620.90
33 01 30 51-0229	EA	20" Coupling, 7" Middle Ring With Buna S Gasket	669.86
33 01 30 51-0230	EA	22" Coupling, 7" Middle Ring With Buna S Gasket	805.92
33 01 30 51-0231	EA	24" Coupling, 7" Middle Ring With Buna S Gasket	850.98

33 01 30 51-0232**Couplings For Steel Pipe** (33 01 30 51-0079)

Note: Includes Buna S gasket, protected. Dresser style 38.

33 01 30 51-0233	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	39.34
33 01 30 51-0234	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	48.90
33 01 30 51-0235	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	57.99
33 01 30 51-0236	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	71.21
33 01 30 51-0237	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	98.23
33 01 30 51-0238	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	96.86
33 01 30 51-0239	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	97.55
33 01 30 51-0240	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	142.19
33 01 30 51-0241	EA	3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	144.79
33 01 30 51-0242	EA	3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	147.39
33 01 30 51-0243	EA	4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	170.92
33 01 30 51-0244	EA	4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	166.34
33 01 30 51-0245	EA	4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	168.75
33 01 30 51-0246	EA	5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	215.66
33 01 30 51-0247	EA	5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	216.94
33 01 30 51-0248	EA	5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	275.91
33 01 30 51-0249	EA	6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	228.95
33 01 30 51-0250	EA	6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	235.72
33 01 30 51-0251	EA	6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	238.33
33 01 30 51-0252	EA	8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	279.68
33 01 30 51-0253	EA	8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	282.25
33 01 30 51-0254	EA	8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	286.39
33 01 30 51-0255	EA	10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	321.34
33 01 30 51-0256	EA	10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	354.49
33 01 30 51-0257	EA	12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	364.14
33 01 30 51-0258	EA	12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	433.72
33 01 30 51-0259	EA	14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	493.26
33 01 30 51-0260	EA	16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	576.50
33 01 30 51-0261	EA	18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	633.90
33 01 30 51-0262	EA	20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	682.86
33 01 30 51-0263	EA	22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	818.92
33 01 30 51-0264	EA	24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	863.98

33 01 30 51-0265**Couplings For Steel Pipe** (33 01 30 51-0079)

Note: Includes Buna N gasket, protected. Dresser style 38.

33 01 30 51-0266	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected.....	43.96
33 01 30 51-0267	EA	3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	53.60
33 01 30 51-0268	EA	1" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	63.51
33 01 30 51-0269	EA	1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	78.38
33 01 30 51-0270	EA	2" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	98.23
33 01 30 51-0271	EA	2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	109.84
33 01 30 51-0272	EA	2" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	113.70
33 01 30 51-0273	EA	3" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	142.19
33 01 30 51-0274	EA	3" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	144.79
33 01 30 51-0275	EA	3" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	147.39
33 01 30 51-0276	EA	4" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	170.92
33 01 30 51-0277	EA	4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	180.19
33 01 30 51-0278	EA	4" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	183.72
33 01 30 51-0279	EA	5" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	215.66
33 01 30 51-0280	EA	5" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	216.94
33 01 30 51-0281	EA	5" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	231.82
33 01 30 51-0282	EA	6" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	228.95
33 01 30 51-0283	EA	6" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	235.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0284 EA 6" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	238.33	
33 01 30 51-0285 EA 8" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	279.68	
33 01 30 51-0286 EA 8" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	282.25	
33 01 30 51-0287 EA 8" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	286.39	
33 01 30 51-0288 EA 10" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	321.34	
33 01 30 51-0289 EA 10" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	354.49	
33 01 30 51-0290 EA 12" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	364.14	
33 01 30 51-0291 EA 12" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	433.72	
33 01 30 51-0292 EA 14" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	493.26	
33 01 30 51-0293 EA 16" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	566.75	
33 01 30 51-0294 EA 18" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	633.90	
33 01 30 51-0295 EA 20" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	682.86	
33 01 30 51-0296 EA 22" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	818.92	
33 01 30 51-0297 EA 24" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	863.98	
33 01 30 51-0298 Couplings For Steel Pipe (33 01 30 51-0079)		
Note: Includes high temperature carded glass gasket, protected. Dresser style 38.		
33 01 30 51-0299 EA 3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	69.91	
33 01 30 51-0300 EA 1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	78.42	
33 01 30 51-0301 EA 1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	87.47	
33 01 30 51-0302 EA 2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	125.72	
33 01 30 51-0303 EA 2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	132.84	
33 01 30 51-0304 EA 2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	136.46	
33 01 30 51-0305 EA 3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	167.25	
33 01 30 51-0306 EA 3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	166.43	
33 01 30 51-0307 EA 4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	193.19	
33 01 30 51-0308 EA 4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	196.72	
33 01 30 51-0309 EA 5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	257.30	
33 01 30 51-0310 EA 5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	261.98	
33 01 30 51-0311 EA 6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	279.82	
33 01 30 51-0312 EA 6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	282.93	
33 01 30 51-0313 EA 8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	301.98	
33 01 30 51-0314 EA 8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	348.50	
33 01 30 51-0315 EA 8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	367.47	
33 01 30 51-0316 EA 10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	386.07	
33 01 30 51-0317 EA 10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	386.01	
33 01 30 51-0318 EA 12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	474.86	
33 01 30 51-0319 EA 12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	489.15	
33 01 30 51-0320 EA 14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	558.55	
33 01 30 51-0321 EA 16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	677.13	
33 01 30 51-0322 EA 18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	678.10	
33 01 30 51-0323 EA 20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	749.81	
33 01 30 51-0324 EA 22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	810.47	
33 01 30 51-0325 EA 24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	876.98	
33 01 30 51-0326 Temporary Bypass And Service Lines (33 01 30 51-0001)		
Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 51-0327 Temporary Water Service Lines (33 01 30 51-0326)		
Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 51-0328 LF 1/2" Temporary Service Hose With Fittings	2.31	
Note: Includes removal after use.		
33 01 30 51-0329 LF 3/4" Temporary Service Hose With Fittings	2.93	
Note: Includes removal after use.		
33 01 30 51-0330 LF 1" Temporary Service Hose With Fittings	3.40	
Note: Includes removal after use.		
33 01 30 51-0331 LF 1-1/2" Temporary Service Hose With Fittings	4.06	
Note: Includes removal after use.		
33 01 30 51-0332 LF 2" Temporary Service Hose With Fittings	4.98	
Note: Includes removal after use.		
33 01 30 51-0333 EA Temporary Service Valve Assembly At Fire Hydrant	255.62	
Note: Includes removal after use.		
33 01 30 51-0334 Temporary Bypass Water Main Lines (33 01 30 51-0326)		
Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 51-0335 LF 2" Temporary Bypass Pipe With Fittings.....	5.15	
Note: Includes removal after use.		
For >500 To 1,000, Deduct		-0.35
For >1,000 To 5,000, Deduct		-0.71
For >5,000, Deduct		-1.18
33 01 30 51-0336 LF 4" Temporary Bypass Pipe With Fittings.....	6.66	
Note: Includes removal after use.		
For >500 To 1,000, Deduct		-0.46
For >1,000 To 5,000, Deduct		-0.91
For >5,000, Deduct		-1.52
33 01 30 51-0337 LF 6" Temporary Bypass Pipe With Fittings.....	8.27	
Note: Includes removal after use.		
For >500 To 1,000, Deduct		-0.53
For >1,000 To 5,000, Deduct		-1.07
For >5,000, Deduct		-1.78

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0338	LF	8" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	10.52 -0.64 -1.28 -2.13	
33 01 30 51-0339		Piping Protection For Temporary Water Line (33 01 30 51-0326)		
33 01 30 51-0340	LF	Cold Mix For Temporary Pipe..... Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.	2.31	
33 01 30 51-0341		Drill Meter Cover For Temporary Water Line (33 01 30 51-0326)		
33 01 30 51-0342	EA	Drill Meter Cover For Temporary Bypass Pipe.....	13.01	
33 01 30 51-0343		Temporary Pipe Plugging (33 01 30 51-0001)		
33 01 30 51-0344		Gravity Bladder Pipe Plugging (33 01 30 51-0343) Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.		
33 01 30 51-0345	EA	3/4" Bladder Type Pipe Plug.....	60.79	
33 01 30 51-0346	EA	1" Bladder Type Pipe Plug.....	65.14	
33 01 30 51-0347	EA	1-1/4" Bladder Type Pipe Plug.....	70.80	
33 01 30 51-0348	EA	1-1/2" Bladder Type Pipe Plug.....	75.94	
33 01 30 51-0349	EA	2" Bladder Type Pipe Plug.....	80.81	
33 01 30 51-0350	EA	2-1/2" Bladder Type Pipe Plug.....	86.45	
33 01 30 51-0351	EA	3" Bladder Type Pipe Plug.....	94.06	
33 01 30 51-0352	EA	4" Bladder Type Pipe Plug.....	103.67	
33 01 30 51-0353	EA	5" Bladder Type Pipe Plug.....	112.21	
33 01 30 51-0354	EA	6" Bladder Type Pipe Plug.....	124.98	
33 01 30 51-0355	EA	8" Bladder Type Pipe Plug.....	138.90	
33 01 30 51-0356	EA	10" Bladder Type Pipe Plug.....	160.86	
33 01 30 51-0357	EA	12" Bladder Type Pipe Plug.....	191.95	
33 01 30 51-0358	EA	14" Bladder Type Pipe Plug.....	227.76	
33 01 30 51-0359	EA	16" Bladder Type Pipe Plug.....	274.08	
33 01 30 51-0360	EA	18" Bladder Type Pipe Plug.....	329.76	
33 01 30 51-0361	EA	20" Bladder Type Pipe Plug.....	395.35	
33 01 30 51-0362	EA	24" Bladder Type Pipe Plug.....	457.63	
33 01 30 51-0363		Hydra Stop, Hot Tapping Of Pressure Pipe (33 01 30 51-0343) Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.		
33 01 30 51-0364	EA	2" Hydra Stop, Line Stopper.....	1,697.34	
33 01 30 51-0365	EA	2-1/2" Hydra Stop, Line Stopper.....	2,129.01	
33 01 30 51-0366	EA	3" Hydra Stop, Line Stopper.....	2,604.73	
33 01 30 51-0367	EA	4" Hydra Stop, Line Stopper.....	3,174.50	
33 01 30 51-0368	EA	5" Hydra Stop, Line Stopper.....	3,619.49	
33 01 30 51-0369	EA	6" Hydra Stop, Line Stopper.....	4,362.70	
33 01 30 51-0370	EA	8" Hydra Stop, Line Stopper.....	4,807.71	
33 01 30 51-0371	EA	10" Hydra Stop, Line Stopper.....	5,550.89	
33 01 30 51-0372	EA	12" Hydra Stop, Line Stopper.....	6,294.10	
33 01 30 51-0373	EA	14" Hydra Stop, Line Stopper.....	7,074.00	
33 01 30 51-0374	EA	16" Hydra Stop, Line Stopper.....	8,074.13	
33 01 30 51-0375	EA	18" Hydra Stop, Line Stopper.....	9,184.31	
33 01 30 51-0376	EA	20" Hydra Stop, Line Stopper.....	10,808.21	
33 01 30 51-0377		Aluminum Expansion Plugs (33 01 30 51-0343) Note: For use with PVC, clay Or cast iron drainage pipe.		
33 01 30 51-0378	EA	3" Pipe Plug.....	46.74	
33 01 30 51-0379	EA	4" Pipe Plug.....	65.94	
33 01 30 51-0380	EA	5" Pipe Plug.....	74.16	
33 01 30 51-0381	EA	6" Pipe Plug.....	110.88	
33 01 30 51-0382	EA	8" Pipe Plug.....	114.14	
33 01 30 51-0383	EA	10" Pipe Plug.....	141.92	
33 01 30 51-0384	EA	12" Pipe Plug.....	190.40	
33 01 30 51-0385	EA	14" Pipe Plug.....	304.48	
33 01 30 51-0386	EA	15" Pipe Plug.....	329.48	
33 01 30 51-0387		Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)		
33 01 30 51-0388	EA	1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	121.49	
33 01 30 51-0389	EA	3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	121.67	
33 01 30 51-0390	EA	1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	122.11	
33 01 30 51-0391	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	122.55	
33 01 30 51-0392	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	122.77	
33 01 30 51-0393	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	123.43	
33 01 30 51-0394	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	124.09	
33 01 30 51-0395	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	124.97	



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0396	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	223.38	
33 01 30 51-0397	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	226.24	
33 01 30 51-0398	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	228.23	
33 01 30 51-0399	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	249.18	
33 01 30 51-0400	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	251.83	
33 01 30 51-0401	EA	14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	253.60	
33 01 30 51-0402	EA	16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	256.24	
33 01 30 51-0403	EA	18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	258.89	
33 01 30 51-0404	EA	20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	262.42	
33 01 30 51-0405	EA	24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	268.59	
33 01 30 61 Sewer and Pipe Joint Sealing (33 01 30)				
33 01 30 61-0001 Joint Air Test (33 01 30 61)				
33 01 30 61-0002	EA	4" To 8", Joint Air Test.....	77.73	
33 01 30 61-0003	EA	10" To 15", Joint Air Test.....	90.68	
33 01 30 61-0004	EA	>15" To 21", Joint Air Test.....	103.64	
33 01 30 61-0005	EA	>21" To 24", Joint Air Test.....	129.55	
33 01 30 61-0006	EA	>24" To 27", Joint Air Test.....	155.45	
33 01 30 61-0007	EA	>27" To 36", Joint Air Test.....	181.37	
33 01 30 61-0008 Joint Seal And Joint Air Retest (33 01 30 61)				
Note: Includes grout.				
33 01 30 61-0009	EA	4" Joint Seal And Joint Air Retest.....	227.06	
Note: Includes up to 1 gallon of grout.				
33 01 30 61-0010	EA	6" Joint Seal And Joint Air Retest.....	252.98	
Note: Includes 1 gallon of grout.				
33 01 30 61-0011	EA	8" Joint Seal And Joint Air Retest.....	298.67	
Note: Includes 2 gallons of grout.				
33 01 30 61-0012	EA	10" Joint Seal And Joint Air Retest.....	334.47	
Note: Includes 2.5 gallons of grout.				
33 01 30 61-0013	EA	12" Joint Seal And Joint Air Retest.....	370.29	
Note: Includes 3 gallons of grout.				
33 01 30 61-0014	EA	15" Joint Seal And Joint Air Retest.....	436.95	
Note: Includes 3.75 gallons of grout.				
33 01 30 61-0015	EA	18" Joint Seal And Joint Air Retest.....	503.60	
Note: Includes 4.5 gallons of grout.				
33 01 30 61-0016	EA	21" Joint Seal And Joint Air Retest.....	570.26	
Note: Includes 5.25 gallons of grout.				
33 01 30 61-0017	EA	24" Joint Seal And Joint Air Retest.....	662.84	
Note: Includes 6 gallons of grout.				
33 01 30 61-0018	EA	27" Joint Seal And Joint Air Retest.....	755.41	
Note: Includes 6.75 gallons of grout.				
33 01 30 61-0019	EA	30" Joint Seal And Joint Air Retest.....	873.88	
Note: Includes 7.5 gallons of grout.				
33 01 30 61-0020	EA	36" Joint Seal And Joint Air Retest.....	1,007.21	
Note: Includes 9 gallons of grout.				
33 01 30 61-0021	GAL	Extra Grout Per Joint.....	123.43	
Note: For extra grout per joint required over listed amount.				
33 01 30 78 Rehabilitation Of Sewer Utilities (33 01 30)				
33 01 30 78-0001 Cementitious Pipe Coatings By Hand (33 01 30 78)				
Note: To be used on repair areas to install the coating on the exposed portion of the pipe.				
33 01 30 78-0002	SF	Up To 1" Thick Cementitious Coating On Pipe, Troweled On.....	6.55	
33 01 30 78-0003	SF	>1" To 2" Thick Cementitious Coating On Pipe, Troweled On.....	9.59	
33 01 30 79 Relining Pipelines (33 01 30)				
33 01 30 79-0001 Relining Underground Pipelines (33 01 30 79)				
Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.				
33 01 30 79-0002 Relining Underground Pipelines Set-Up And Reinsertion (33 01 30 79-0001)				
33 01 30 79-0003	EA	Initial Set Up And Final Equipment Removal For Relining Underground Pipelines.....	4,023.17	
33 01 30 79-0004	EA	Move And Reset Up At Different Access/Location For Relining Underground Pipelines.....	1,609.27	
33 01 30 79-0005 Lining Pipe With Resin Impregnated Cured In-Place Pipe (33 01 30 79-0001)				
Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting.				
33 01 30 79-0006 Relining Underground Pipelines Set-Up And Reinsertion For CIPP (33 01 30 79-0005)				
33 01 30 79-0007	EA	Initial Set Up And Final Equipment Removal For Relining Underground Pipelines CIPP.....	4,023.17	
33 01 30 79-0008	EA	Move And Reset Up At Different Access/Location For Relining Underground Pipelines CIPP.....	1,609.27	
33 01 30 79-0009	EA	Mixing Truck And Refrigeration For 12" To 24" CIPP.....	4,023.17	
Note: Need to mix wet material in bag prior to installation.				

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0010 EA Mixing Truck And Refrigeration For 27" To 48" CIPP Note: Need to mix wet material in bag prior to installation.	8,046.36	
33 01 30 79-0011 EA Mixing Truck And Refrigeration For 54" To 72" CIPP Note: Need to mix wet material in bag prior to installation.	12,069.53	
33 01 30 79-0012 6mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0013 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	52.73	
33 01 30 79-0014 7.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0015 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	56.31	
33 01 30 79-0016 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	66.85	
33 01 30 79-0017 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	78.71	
33 01 30 79-0018 9mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0019 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	59.74	
33 01 30 79-0020 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	70.56	
33 01 30 79-0021 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	83.11	
33 01 30 79-0022 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	100.69	
33 01 30 79-0023 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	109.51	
33 01 30 79-0024 10.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0025 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	74.76	
33 01 30 79-0026 LF 10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	88.03	
33 01 30 79-0027 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	103.84	
33 01 30 79-0028 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	115.61	
33 01 30 79-0029 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	129.00	
33 01 30 79-0030 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	144.44	
33 01 30 79-0031 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	168.40	
33 01 30 79-0032 12mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0033 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	81.05	
33 01 30 79-0034 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	95.58	
33 01 30 79-0035 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	108.49	
33 01 30 79-0036 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	123.04	
33 01 30 79-0037 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	137.58	
33 01 30 79-0038 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	153.74	
33 01 30 79-0039 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	178.05	
33 01 30 79-0040 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	208.55	
33 01 30 79-0041 LF 12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	242.41	
33 01 30 79-0042 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0043 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	85.87	
33 01 30 79-0044 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	100.31	
33 01 30 79-0045 LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	115.09	
33 01 30 79-0046 LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	129.95	
33 01 30 79-0047 LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	145.92	
33 01 30 79-0048 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	162.64	
33 01 30 79-0049 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	189.07	
33 01 30 79-0050 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	216.14	
33 01 30 79-0051 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	254.43	
33 01 30 79-0052 15mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0053 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	89.88	
33 01 30 79-0054 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	106.33	
33 01 30 79-0055 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	121.32	
33 01 30 79-0056 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	137.54	
33 01 30 79-0057 LF 15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	153.94	
33 01 30 79-0058 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	167.53	
33 01 30 79-0059 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	199.05	
33 01 30 79-0060 LF 15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	228.57	
33 01 30 79-0061 LF 15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	268.50	
33 01 30 79-0062 16.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0063 LF 16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	111.64	
33 01 30 79-0064 LF 16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	127.53	
33 01 30 79-0065 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	144.89	
33 01 30 79-0066 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	161.96	
33 01 30 79-0067 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	192.49	
33 01 30 79-0068 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	207.49	
33 01 30 79-0069 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	240.95	
33 01 30 79-0070 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	282.58	
33 01 30 79-0071 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	327.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0072 18mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0073 LF 18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	118.74	
33 01 30 79-0074 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	135.57	
33 01 30 79-0075 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	153.60	
33 01 30 79-0076 LF 18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	172.37	
33 01 30 79-0077 LF 18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	192.87	
33 01 30 79-0078 LF 18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	224.39	
33 01 30 79-0079 LF 18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	254.61	
33 01 30 79-0080 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	300.87	
33 01 30 79-0081 LF 18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	348.00	
33 01 30 79-0082 LF 18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	406.39	
33 01 30 79-0083 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	483.15	
33 01 30 79-0084 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	574.54	
33 01 30 79-0085 19.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0086 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	123.97	
33 01 30 79-0087 LF 19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	140.48	
33 01 30 79-0088 LF 19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	161.18	
33 01 30 79-0089 LF 19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	180.34	
33 01 30 79-0090 LF 19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	201.25	
33 01 30 79-0091 LF 19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	235.39	
33 01 30 79-0092 LF 19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	269.06	
33 01 30 79-0093 LF 19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	319.75	
33 01 30 79-0094 LF 19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	363.94	
33 01 30 79-0095 LF 19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	425.51	
33 01 30 79-0096 LF 19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	504.18	
33 01 30 79-0097 LF 19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	597.48	
33 01 30 79-0098 21mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0099 LF 21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	128.41	
33 01 30 79-0100 LF 21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	145.12	
33 01 30 79-0101 LF 21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	170.60	
33 01 30 79-0102 LF 21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	190.94	
33 01 30 79-0103 LF 21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	212.99	
33 01 30 79-0104 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	249.37	
33 01 30 79-0105 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	285.01	
33 01 30 79-0106 LF 21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	333.60	
33 01 30 79-0107 LF 21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	385.22	
33 01 30 79-0108 LF 21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	447.17	
33 01 30 79-0109 LF 21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	529.82	
33 01 30 79-0110 LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	627.81	
33 01 30 79-0111 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0112 LF 22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	131.74	
33 01 30 79-0113 LF 22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	150.92	
33 01 30 79-0114 LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	177.38	
33 01 30 79-0115 LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	198.83	
33 01 30 79-0116 LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	221.95	
33 01 30 79-0117 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	259.97	
33 01 30 79-0118 LF 22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	297.32	
33 01 30 79-0119 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	347.48	
33 01 30 79-0120 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	401.09	
33 01 30 79-0121 LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	464.65	
33 01 30 79-0122 LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	549.05	
33 01 30 79-0123 LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	648.79	
33 01 30 79-0124 24mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0125 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	138.76	
33 01 30 79-0126 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	158.73	
33 01 30 79-0127 LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	186.88	
33 01 30 79-0128 LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	209.47	
33 01 30 79-0129 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	232.96	
33 01 30 79-0130 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	274.22	
33 01 30 79-0131 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	313.32	
33 01 30 79-0132 LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	366.38	
33 01 30 79-0133 LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	428.24	
33 01 30 79-0134 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	492.78	
33 01 30 79-0135 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	581.89	
33 01 30 79-0136 LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	687.12	
33 01 30 79-0137 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0138 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	164.39	
33 01 30 79-0139 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	193.90	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0140 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	211.78	
33 01 30 79-0141 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	242.53	
33 01 30 79-0142 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	284.91	
33 01 30 79-0143 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	325.65	
33 01 30 79-0144 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	380.26	
33 01 30 79-0145 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	436.69	
33 01 30 79-0146 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	506.15	
33 01 30 79-0147 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	596.59	
33 01 30 79-0148 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	703.15	
33 01 30 79-0149 27mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0150 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	172.47	
33 01 30 79-0151 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	203.33	
33 01 30 79-0152 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	220.14	
33 01 30 79-0153 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	254.47	
33 01 30 79-0154 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	297.43	
33 01 30 79-0155 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	353.23	
33 01 30 79-0156 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	399.11	
33 01 30 79-0157 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	459.94	
33 01 30 79-0158 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	532.15	
33 01 30 79-0159 LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	627.18	
33 01 30 79-0160 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	739.14	
33 01 30 79-0161 28.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0162 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	210.14	
33 01 30 79-0163 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	228.68	
33 01 30 79-0164 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	226.11	
33 01 30 79-0165 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	309.82	
33 01 30 79-0166 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	358.66	
33 01 30 79-0167 LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	412.86	
33 01 30 79-0168 LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	475.65	
33 01 30 79-0169 LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	549.46	
33 01 30 79-0170 LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	646.23	
33 01 30 79-0171 LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	759.92	
33 01 30 79-0172 30mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0173 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	215.61	
33 01 30 79-0174 LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	237.92	
33 01 30 79-0175 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	275.18	
33 01 30 79-0176 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	324.09	
33 01 30 79-0177 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	370.36	
33 01 30 79-0178 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	431.85	
33 01 30 79-0179 LF 30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	497.53	
33 01 30 79-0180 LF 30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	574.84	
33 01 30 79-0181 LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	676.24	
33 01 30 79-0182 LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	795.40	
33 01 30 79-0183 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0184 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	218.29	
33 01 30 79-0185 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	245.22	
33 01 30 79-0186 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	273.64	
33 01 30 79-0187 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	333.32	
33 01 30 79-0188 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	382.46	
33 01 30 79-0189 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	445.77	
33 01 30 79-0190 LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	513.20	
33 01 30 79-0191 LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	592.25	
33 01 30 79-0192 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	695.38	
33 01 30 79-0193 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	816.29	
33 01 30 79-0194 33mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0195 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	228.00	
33 01 30 79-0196 LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	255.70	
33 01 30 79-0197 LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	285.37	
33 01 30 79-0198 LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	349.20	
33 01 30 79-0199 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	399.14	
33 01 30 79-0200 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	465.03	
33 01 30 79-0201 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	535.27	
33 01 30 79-0202 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	617.98	
33 01 30 79-0203 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	725.90	
33 01 30 79-0204 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	852.45	
33 01 30 79-0205 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0206 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	262.95	
33 01 30 79-0207 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	293.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0208 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	352.89	
33 01 30 79-0209 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	410.95	
33 01 30 79-0210 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	476.85	
33 01 30 79-0211 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	550.82	
33 01 30 79-0212 LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	634.01	
33 01 30 79-0213 LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	743.52	
33 01 30 79-0214 LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	871.67	
33 01 30 79-0215 36mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0216 LF 36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	273.51	
33 01 30 79-0217 LF 36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	305.26	
33 01 30 79-0218 LF 36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	360.45	
33 01 30 79-0219 LF 36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	427.77	
33 01 30 79-0220 LF 36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	498.02	
33 01 30 79-0221 LF 36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	573.15	
33 01 30 79-0222 LF 36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	661.14	
33 01 30 79-0223 LF 36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	775.65	
33 01 30 79-0224 LF 36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	909.77	
33 01 30 79-0225 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0226 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	313.48	
33 01 30 79-0227 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	370.24	
33 01 30 79-0228 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	439.49	
33 01 30 79-0229 LF 37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	511.80	
33 01 30 79-0230 LF 37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	586.55	
33 01 30 79-0231 LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	677.21	
33 01 30 79-0232 LF 37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	793.32	
33 01 30 79-0233 LF 37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	929.04	
33 01 30 79-0234 39mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0235 LF 39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	384.62	
33 01 30 79-0236 LF 39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	456.56	
33 01 30 79-0237 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	531.40	
33 01 30 79-0238 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	611.30	
33 01 30 79-0239 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	704.77	
33 01 30 79-0240 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	826.07	
33 01 30 79-0241 LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	967.95	
33 01 30 79-0242 40.5mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0243 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	457.69	
33 01 30 79-0244 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	544.83	
33 01 30 79-0245 LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	626.71	
33 01 30 79-0246 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	721.72	
33 01 30 79-0247 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	844.73	
33 01 30 79-0248 LF 40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	988.30	
33 01 30 79-0249 42mm Thick Lining Cured In-Place Pipe (33 01 30 79-0005)		
33 01 30 79-0250 LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	564.65	
33 01 30 79-0251 LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	649.60	
33 01 30 79-0252 LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	748.48	
33 01 30 79-0253 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	876.70	
33 01 30 79-0254 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,026.51	
33 01 30 79-0255 Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)		
33 01 30 79-0256 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	29.41	
For DR 26 Pipe Liner, Add	5.20	
For >500 To 1,000, Deduct	-0.65	
For >1,000 To 2,000, Deduct	-1.29	
For >2,000, Deduct	-2.59	
33 01 30 79-0257 LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	37.52	
For DR 26 Pipe Liner, Add	7.06	
For DR 35 Pipe Liner, Deduct	-3.53	
For >500 To 1,000, Deduct	-0.70	
For >1,000 To 2,000, Deduct	-1.39	
For >2,000, Deduct	-2.78	
33 01 30 79-0258 LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	38.81	
For DR 26 Pipe Liner, Add	7.19	
For DR 35 Pipe Liner, Deduct	-3.60	
For >500 To 1,000, Deduct	-0.75	
For >1,000 To 2,000, Deduct	-1.51	
For >2,000, Deduct	-3.02	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0259 LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	54.12	
For DR 26 Pipe Liner, Add	10.79	
For DR 35 Pipe Liner, Deduct	-5.39	
For DR 41 Pipe Liner, Deduct	-10.79	
For >500 To 1,000, Deduct	-0.82	
For >1,000 To 2,000, Deduct	-1.65	
For >2,000, Deduct	-3.29	
33 01 30 79-0260 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	75.21	
For DR 26 Pipe Liner, Add	15.79	
For DR 35 Pipe Liner, Deduct	-7.89	
For DR 41 Pipe Liner, Deduct	-15.79	
For >500 To 1,000, Deduct	-0.90	
For >1,000 To 2,000, Deduct	-1.81	
For >2,000, Deduct	-3.62	
33 01 30 79-0261 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	102.63	
For DR 35 Pipe Liner, Deduct	-11.11	
For DR 41 Pipe Liner, Deduct	-22.23	
For >500 To 1,000, Deduct	-1.03	
For >1,000 To 2,000, Deduct	-2.06	
For >2,000, Deduct	-4.12	
33 01 30 79-0262 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	144.39	
For DR 41 Pipe Liner, Deduct	-12.89	
For DR 50 Pipe Liner, Deduct	-25.78	
For >500 To 1,000, Deduct	-1.16	
For >1,000 To 2,000, Deduct	-2.32	
For >2,000, Deduct	-4.64	
33 01 30 79-0263 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	163.20	
For DR 50 Pipe Liner, Deduct	-21.97	
For DR 55 Pipe Liner, Deduct	-36.61	
For >500 To 1,000, Deduct	-1.26	
For >1,000 To 2,000, Deduct	-2.51	
For >2,000, Deduct	-5.03	
33 01 30 79-0264 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	198.72	
For DR 60 Pipe Liner, Deduct	-27.06	
For >500 To 1,000, Deduct	-1.37	
For >1,000 To 2,000, Deduct	-2.74	
For >2,000, Deduct	-5.49	
33 01 30 79-0265 Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)		
33 01 30 79-0266 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	31.37	
For >500 To 1,000, Deduct	-0.65	
For >1,000 To 2,000, Deduct	-1.29	
For >2,000, Deduct	-2.59	
For DR 26 Pipe Liner, Add	5.69	
33 01 30 79-0267 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	37.52	
For >500 To 1,000, Deduct	-0.70	
For >1,000 To 2,000, Deduct	-1.39	
For >2,000, Deduct	-2.78	
For DR 26 Pipe Liner, Add	7.06	
For DR 35 Pipe Liner, Deduct	-3.53	
33 01 30 79-0268 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	41.43	
For >500 To 1,000, Deduct	-0.75	
For >1,000 To 2,000, Deduct	-1.51	
For >2,000, Deduct	-3.02	
For DR 26 Pipe Liner, Add	7.85	
For DR 35 Pipe Liner, Deduct	-3.92	
33 01 30 79-0269 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	58.04	
For >500 To 1,000, Deduct	-0.82	
For >1,000 To 2,000, Deduct	-1.65	
For >2,000, Deduct	-3.29	
For DR 26 Pipe Liner, Add	11.77	
For DR 35 Pipe Liner, Deduct	-5.88	
For DR 41 Pipe Liner, Deduct	-11.77	
33 01 30 79-0270 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	81.09	
For >500 To 1,000, Deduct	-0.90	
For >1,000 To 2,000, Deduct	-1.81	
For >2,000, Deduct	-3.62	
For DR 26 Pipe Liner, Add	17.26	
For DR 35 Pipe Liner, Deduct	-8.63	
For DR 41 Pipe Liner, Deduct	-17.26	
33 01 30 79-0271 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	111.00	
For >500 To 1,000, Deduct	-1.03	
For >1,000 To 2,000, Deduct	-2.06	
For >2,000, Deduct	-4.12	
For DR 35 Pipe Liner, Deduct	-12.16	
For DR 41 Pipe Liner, Deduct	-24.32	
33 01 30 79-0272 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	156.68	
For >500 To 1,000, Deduct	-1.16	
For >1,000 To 2,000, Deduct	-2.32	
For >2,000, Deduct	-4.64	
For DR 41 Pipe Liner, Deduct	-14.12	
For DR 50 Pipe Liner, Deduct	-28.24	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 79-0273	LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	176.79		
	For >500 To 1,000, Deduct	-1.26		
	For >1,000 To 2,000, Deduct	-2.51		
	For >2,000, Deduct	-5.03		
	For DR 50 Pipe Liner, Deduct	-24.00		
	For DR 55 Pipe Liner, Deduct	-40.01		
33 01 30 79-0274	LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	215.98		
	For >500 To 1,000, Deduct	-1.37		
	For >1,000 To 2,000, Deduct	-2.74		
	For >2,000, Deduct	-5.49		
	For DR 60 Pipe Liner, Deduct	-29.65		
33 01 30 79-0275	Pumped Grouting For Slip-Lining Systems (33 01 30 79-0001)			
	Note: Includes all materials, embedded piping, forms, labor and pumping equipment necessary to place and install grout.			
33 01 30 79-0276	CY Flowable Fill Grout, For Pipe Relines	489.10		
33 01 30 79-0277	Solid Wall High Density Polyethylene (HDPE) Culvert Slip-Lining System (33 01 30 79-0001)			
	Note: Snap-Tite slip-lining system. Excludes culvert cleaning and grouting. See CSI section 33 01 30 41-0018 for culvert cleaning, 33 01 30 79-0275 for flowable fill grout.			
33 01 30 79-0278	LF 6.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	15.91		
	For Profile Wall (Corrugated), Deduct	-2.38		
33 01 30 79-0279	LF 8.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	23.64		
	For Profile Wall (Corrugated), Deduct	-3.73		
33 01 30 79-0280	LF 10.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	22.37		
	For Profile Wall (Corrugated), Deduct	-3.31		
33 01 30 79-0281	LF 12.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	29.43		
	For Profile Wall (Corrugated), Deduct	-4.47		
33 01 30 79-0282	LF 14" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	33.77		
	For Profile Wall (Corrugated), Deduct	-5.00		
33 01 30 79-0283	LF 16" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	40.50		
	For Profile Wall (Corrugated), Deduct	-6.23		
33 01 30 79-0284	LF 18" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	50.90		
	For Profile Wall (Corrugated), Deduct	-7.84		
33 01 30 79-0285	LF 20" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	62.28		
	For Profile Wall (Corrugated), Deduct	-9.79		
33 01 30 79-0286	LF 22" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	71.76		
	For Profile Wall (Corrugated), Deduct	-11.35		
33 01 30 79-0287	LF 24" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	82.04		
	For Profile Wall (Corrugated), Deduct	-13.07		
33 01 30 79-0288	LF 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	93.51		
	For Profile Wall (Corrugated), Deduct	-15.03		
33 01 30 79-0289	LF 28" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	105.37		
	For Profile Wall (Corrugated), Deduct	-17.07		
33 01 30 79-0290	LF 30" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	121.77		
	For Profile Wall (Corrugated), Deduct	-20.02		
33 01 30 79-0291	LF 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	138.97		
	For Profile Wall (Corrugated), Deduct	-23.12		
33 01 30 79-0292	LF 34" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	153.46		
	For Profile Wall (Corrugated), Deduct	-25.69		
33 01 30 79-0293	LF 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	167.96		
	For Profile Wall (Corrugated), Deduct	-28.25		
33 01 30 79-0294	LF 39.37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	191.60		
	For Profile Wall (Corrugated), Deduct	-32.65		
33 01 30 79-0295	LF 42" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	215.25		
	For Profile Wall (Corrugated), Deduct	-37.04		
33 01 30 79-0296	LF 48" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	275.68		
	For Profile Wall (Corrugated), Deduct	-48.80		
33 01 30 79-0297	LF 54" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	335.34		
	For Profile Wall (Corrugated), Deduct	-60.39		
33 01 30 79-0298	LF 57" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	371.18		
	For Profile Wall (Corrugated), Deduct	-67.23		
33 01 30 79-0299	LF 60" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	406.69		
	For Profile Wall (Corrugated), Deduct	-74.00		
33 01 30 79-0300	LF 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	442.88		
	For Profile Wall (Corrugated), Deduct	-80.90		
33 01 30 79-0301	LF 66" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	496.82		
	For Profile Wall (Corrugated), Deduct	-91.19		
33 01 30 79-0302	LF 72" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	527.69		
	For Profile Wall (Corrugated), Deduct	-96.70		
33 01 30 79-0303	LF 78" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	561.33		
	For Profile Wall (Corrugated), Deduct	-102.59		
33 01 30 79-0304	LF 84" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	609.12		
	For Profile Wall (Corrugated), Deduct	-111.48		
33 01 30 79-0305	LF 90" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	623.86		
	For Profile Wall (Corrugated), Deduct	-113.76		
33 01 30 79-0306	LF 96" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	632.98		
	For Profile Wall (Corrugated), Deduct	-114.75		
33 01 30 79-0307	LF 16.5 x 23" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	82.78		
	For Profile Wall (Corrugated), Deduct	-13.19		

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0308 LF 17" x 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 92.98 <i>For Profile Wall (Corrugated), Deduct</i> -14.60		
33 01 30 79-0309 LF 18" x 29" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 102.48		
33 01 30 79-0310 LF 19" x 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 118.20 <i>For Profile Wall (Corrugated), Deduct</i> -18.76		
33 01 30 79-0311 LF 21" x 33.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 129.64 <i>For Profile Wall (Corrugated), Deduct</i> -20.60		
33 01 30 79-0312 LF 22.5 x 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 145.18 <i>For Profile Wall (Corrugated), Deduct</i> -23.27		
33 01 30 79-0313 LF 26" x 37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 161.55 <i>For Profile Wall (Corrugated), Deduct</i> -26.10		
33 01 30 79-0314 LF 30" x 41" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 193.22 <i>For Profile Wall (Corrugated), Deduct</i> -31.54		
33 01 30 79-0315 LF 31" x 46" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 216.74		
33 01 30 79-0316 LF 34" x 48.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 239.49 <i>For Profile Wall (Corrugated), Deduct</i> -39.91		
33 01 30 79-0317 LF 39" x 55.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 294.87 <i>For Profile Wall (Corrugated), Deduct</i> -50.54		
33 01 30 79-0318 LF 43" x 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 352.65 <i>For Profile Wall (Corrugated), Deduct</i> -61.65		
33 01 30 79-0319 LF 48" x 75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 448.51 <i>For Profile Wall (Corrugated), Deduct</i> -80.83		
33 01 30 79-0320 LF 52" x 72.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 455.17 <i>For Profile Wall (Corrugated), Deduct</i> -80.83		
33 01 30 79-0321 LF 58" x 67.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert 455.17 <i>For Profile Wall (Corrugated), Deduct</i> -80.83		
33 01 30 79-0322 Lining Pipe, Spray Applied With Structural Polyurethane (33 01 30 79-0001) Note: Two part structural polyurethane.		
33 01 30 79-0323 Mobilization And Setup For Spray Applied Structural Polyurethane Lining (33 01 30 79-0322)		
33 01 30 79-0324 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining 1,413.80		
33 01 30 79-0325 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane (33 01 30 79-0322) Note: Two part structural polyurethane.		
33 01 30 79-0326 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane 36.81 <i>For Up To 75, Add</i> 8.12 <i>For >75 To 150, Add</i> 3.68 <i>For >500 To 1,000, Deduct</i> -1.04 <i>For >1,000 To 2,000, Deduct</i> -2.01 <i>For >2,000 To 5,000, Deduct</i> -3.12 <i>For >5,000, Deduct</i> -4.44		
33 01 30 79-0327 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane 42.94 <i>For Up To 75, Add</i> 9.48 <i>For >75 To 150, Add</i> 4.29 <i>For >500 To 1,000, Deduct</i> -1.21 <i>For >1,000 To 2,000, Deduct</i> -2.34 <i>For >2,000 To 5,000, Deduct</i> -3.64 <i>For >5,000, Deduct</i> -5.18		
33 01 30 79-0328 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane 49.09 <i>For Up To 75, Add</i> 10.84 <i>For >75 To 150, Add</i> 4.91 <i>For >500 To 1,000, Deduct</i> -1.39 <i>For >1,000 To 2,000, Deduct</i> -2.68 <i>For >2,000 To 5,000, Deduct</i> -4.17 <i>For >5,000, Deduct</i> -5.93		
33 01 30 79-0329 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane 55.22 <i>For Up To 75, Add</i> 12.19 <i>For >75 To 150, Add</i> 5.52 <i>For >500 To 1,000, Deduct</i> -1.56 <i>For >1,000 To 2,000, Deduct</i> -3.01 <i>For >2,000 To 5,000, Deduct</i> -4.69 <i>For >5,000, Deduct</i> -6.67		
33 01 30 79-0330 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane 61.36 <i>For Up To 75, Add</i> 13.54 <i>For >75 To 150, Add</i> 6.14 <i>For >500 To 1,000, Deduct</i> -1.74 <i>For >1,000 To 2,000, Deduct</i> -3.34 <i>For >2,000 To 5,000, Deduct</i> -5.21 <i>For >5,000, Deduct</i> -7.41		
33 01 30 79-0331 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane 67.49 <i>For Up To 75, Add</i> 14.90 <i>For >75 To 150, Add</i> 6.75 <i>For >500 To 1,000, Deduct</i> -1.91 <i>For >1,000 To 2,000, Deduct</i> -3.68 <i>For >2,000 To 5,000, Deduct</i> -5.73 <i>For >5,000, Deduct</i> -8.15		



		Utilities	33	33
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0332	LF		72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	73.63	
			For Up To 75, Add	16.25	
			For >75 To 150, Add	7.36	
			For >500 To 1,000, Deduct	-2.08	
			For >1,000 To 2,000, Deduct	-4.01	
			For >2,000 To 5,000, Deduct	-6.25	
			For >5,000, Deduct	-8.89	
33 01 30 79-0333	LF		78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	79.76	
			For Up To 75, Add	17.60	
			For >75 To 150, Add	7.98	
			For >500 To 1,000, Deduct	-2.26	
			For >1,000 To 2,000, Deduct	-4.35	
			For >2,000 To 5,000, Deduct	-6.77	
			For >5,000, Deduct	-9.63	
33 01 30 79-0334	LF		84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	85.90	
			For Up To 75, Add	18.96	
			For >75 To 150, Add	8.59	
			For >500 To 1,000, Deduct	-2.43	
			For >1,000 To 2,000, Deduct	-4.68	
			For >2,000 To 5,000, Deduct	-7.29	
			For >5,000, Deduct	-10.37	
33 01 30 79-0335	LF		90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	92.03	
			For Up To 75, Add	20.31	
			For >75 To 150, Add	9.20	
			For >500 To 1,000, Deduct	-2.60	
			For >1,000 To 2,000, Deduct	-5.02	
			For >2,000 To 5,000, Deduct	-7.81	
			For >5,000, Deduct	-11.11	
33 01 30 79-0336	LF		96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	98.17	
			For Up To 75, Add	21.67	
			For >75 To 150, Add	9.82	
			For >500 To 1,000, Deduct	-2.78	
			For >1,000 To 2,000, Deduct	-5.35	
			For >2,000 To 5,000, Deduct	-8.33	
			For >5,000, Deduct	-11.85	
33 01 30 79-0337	LF		102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	104.31	
			For Up To 75, Add	23.02	
			For >75 To 150, Add	10.43	
			For >500 To 1,000, Deduct	-2.95	
			For >1,000 To 2,000, Deduct	-5.69	
			For >2,000 To 5,000, Deduct	-8.85	
			For >5,000, Deduct	-12.59	
33 01 30 79-0338	LF		108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	110.43	
			For Up To 75, Add	24.37	
			For >75 To 150, Add	11.04	
			For >500 To 1,000, Deduct	-3.12	
			For >1,000 To 2,000, Deduct	-6.02	
			For >2,000 To 5,000, Deduct	-9.37	
			For >5,000, Deduct	-13.33	
33 01 30 79-0339	LF		114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	116.58	
			For Up To 75, Add	25.73	
			For >75 To 150, Add	11.66	
			For >500 To 1,000, Deduct	-3.30	
			For >1,000 To 2,000, Deduct	-6.35	
			For >2,000 To 5,000, Deduct	-9.89	
			For >5,000, Deduct	-14.07	
33 01 30 79-0340	LF		120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	122.71	
			For Up To 75, Add	27.08	
			For >75 To 150, Add	12.27	
			For >500 To 1,000, Deduct	-3.47	
			For >1,000 To 2,000, Deduct	-6.69	
			For >2,000 To 5,000, Deduct	-10.41	
			For >5,000, Deduct	-14.81	
33 01 30 79-0341	SF		Structure Lining, Spray Applied With 100 mil Structural Polyurethane	3.91	
33 01 30 79-0342			Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 79-0322)		
			Note: Two part structural polyurethane.		
33 01 30 79-0343	LF		36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	48.41	
			For Up To 75, Add	10.48	
			For >75 To 150, Add	4.84	
			For >500 To 1,000, Deduct	-1.29	
			For >1,000 To 2,000, Deduct	-2.50	
			For >2,000 To 5,000, Deduct	-3.87	
			For >5,000, Deduct	-5.64	
33 01 30 79-0344	LF		42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	56.49	
			For Up To 75, Add	12.23	
			For >75 To 150, Add	5.65	
			For >500 To 1,000, Deduct	-1.50	
			For >1,000 To 2,000, Deduct	-2.92	
			For >2,000 To 5,000, Deduct	-4.51	
			For >5,000, Deduct	-6.59	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0345 LF 48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	64.55	
For Up To 75, Add	13.98	
For >75 To 150, Add	6.46	
For >500 To 1,000, Deduct	-1.72	
For >1,000 To 2,000, Deduct	-3.33	
For >2,000 To 5,000, Deduct	-5.16	
For >5,000, Deduct	-7.53	
33 01 30 79-0346 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	72.62	
For Up To 75, Add	15.73	
For >75 To 150, Add	7.26	
For >500 To 1,000, Deduct	-1.93	
For >1,000 To 2,000, Deduct	-3.75	
For >2,000 To 5,000, Deduct	-5.80	
For >5,000, Deduct	-8.47	
33 01 30 79-0347 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	80.70	
For Up To 75, Add	17.48	
For >75 To 150, Add	8.07	
For >500 To 1,000, Deduct	-2.15	
For >1,000 To 2,000, Deduct	-4.16	
For >2,000 To 5,000, Deduct	-6.45	
For >5,000, Deduct	-9.41	
33 01 30 79-0348 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	88.76	
For Up To 75, Add	19.22	
For >75 To 150, Add	8.88	
For >500 To 1,000, Deduct	-2.36	
For >1,000 To 2,000, Deduct	-4.58	
For >2,000 To 5,000, Deduct	-7.09	
For >5,000, Deduct	-10.35	
33 01 30 79-0349 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	96.83	
For Up To 75, Add	20.97	
For >75 To 150, Add	9.68	
For >500 To 1,000, Deduct	-2.58	
For >1,000 To 2,000, Deduct	-5.00	
For >2,000 To 5,000, Deduct	-7.74	
For >5,000, Deduct	-11.29	
33 01 30 79-0350 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	104.90	
For Up To 75, Add	22.72	
For >75 To 150, Add	10.49	
For >500 To 1,000, Deduct	-2.79	
For >1,000 To 2,000, Deduct	-5.41	
For >2,000 To 5,000, Deduct	-8.38	
For >5,000, Deduct	-12.23	
33 01 30 79-0351 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	112.97	
For Up To 75, Add	24.47	
For >75 To 150, Add	11.30	
For >500 To 1,000, Deduct	-3.01	
For >1,000 To 2,000, Deduct	-5.83	
For >2,000 To 5,000, Deduct	-9.03	
For >5,000, Deduct	-13.17	
33 01 30 79-0352 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	121.04	
For Up To 75, Add	26.21	
For >75 To 150, Add	12.10	
For >500 To 1,000, Deduct	-3.22	
For >1,000 To 2,000, Deduct	-6.25	
For >2,000 To 5,000, Deduct	-9.67	
For >5,000, Deduct	-14.11	
33 01 30 79-0353 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	129.11	
For Up To 75, Add	27.96	
For >75 To 150, Add	12.91	
For >500 To 1,000, Deduct	-3.44	
For >1,000 To 2,000, Deduct	-6.66	
For >2,000 To 5,000, Deduct	-10.32	
For >5,000, Deduct	-15.05	
33 01 30 79-0354 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	137.17	
For Up To 75, Add	29.71	
For >75 To 150, Add	13.72	
For >500 To 1,000, Deduct	-3.65	
For >1,000 To 2,000, Deduct	-7.08	
For >2,000 To 5,000, Deduct	-10.96	
For >5,000, Deduct	-15.99	
33 01 30 79-0355 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	145.25	
For Up To 75, Add	31.46	
For >75 To 150, Add	14.53	
For >500 To 1,000, Deduct	-3.87	
For >1,000 To 2,000, Deduct	-7.50	
For >2,000 To 5,000, Deduct	-11.60	
For >5,000, Deduct	-16.93	
33 01 30 79-0356 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	153.32	
For Up To 75, Add	33.21	
For >75 To 150, Add	15.33	
For >500 To 1,000, Deduct	-4.08	
For >1,000 To 2,000, Deduct	-7.91	
For >2,000 To 5,000, Deduct	-12.25	
For >5,000, Deduct	-17.87	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0357	LF	120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	161.38	
		For Up To 75, Add	34.95	
		For >75 To 150, Add	16.14	
		For >500 To 1,000, Deduct	-4.30	
		For >1,000 To 2,000, Deduct	-8.33	
		For >2,000 To 5,000, Deduct	-12.89	
		For >5,000, Deduct	-18.81	
33 01 30 79-0358	SF	Structure Lining, Spray Applied With 150 mil Structural Polyurethane	5.13	
33 01 30 79-0359 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane (33 01 30 79-0322)				
Note: Two part structural polyurethane.				
33 01 30 79-0360	LF	36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	60.02	
		For Up To 75, Add	12.85	
		For >75 To 150, Add	6.00	
		For >500 To 1,000, Deduct	-1.54	
		For >1,000 To 2,000, Deduct	-2.99	
		For >2,000 To 5,000, Deduct	-4.62	
		For >5,000, Deduct	-6.85	
33 01 30 79-0361	LF	42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	70.02	
		For Up To 75, Add	14.99	
		For >75 To 150, Add	7.00	
		For >500 To 1,000, Deduct	-1.79	
		For >1,000 To 2,000, Deduct	-3.49	
		For >2,000 To 5,000, Deduct	-5.38	
		For >5,000, Deduct	-7.99	
33 01 30 79-0362	LF	48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	80.03	
		For Up To 75, Add	17.13	
		For >75 To 150, Add	8.00	
		For >500 To 1,000, Deduct	-2.05	
		For >1,000 To 2,000, Deduct	-3.99	
		For >2,000 To 5,000, Deduct	-6.15	
		For >5,000, Deduct	-9.13	
33 01 30 79-0363	LF	54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	90.02	
		For Up To 75, Add	19.27	
		For >75 To 150, Add	9.00	
		For >500 To 1,000, Deduct	-2.31	
		For >1,000 To 2,000, Deduct	-4.49	
		For >2,000 To 5,000, Deduct	-6.92	
		For >5,000, Deduct	-10.27	
33 01 30 79-0364	LF	60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	100.04	
		For Up To 75, Add	21.42	
		For >75 To 150, Add	10.00	
		For >500 To 1,000, Deduct	-2.56	
		For >1,000 To 2,000, Deduct	-4.99	
		For >2,000 To 5,000, Deduct	-7.69	
		For >5,000, Deduct	-11.41	
33 01 30 79-0365	LF	66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	110.04	
		For Up To 75, Add	23.56	
		For >75 To 150, Add	11.00	
		For >500 To 1,000, Deduct	-2.82	
		For >1,000 To 2,000, Deduct	-5.49	
		For >2,000 To 5,000, Deduct	-8.46	
		For >5,000, Deduct	-12.55	
33 01 30 79-0366	LF	72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	120.05	
		For Up To 75, Add	25.70	
		For >75 To 150, Add	12.01	
		For >500 To 1,000, Deduct	-3.08	
		For >1,000 To 2,000, Deduct	-5.99	
		For >2,000 To 5,000, Deduct	-9.23	
		For >5,000, Deduct	-13.70	
33 01 30 79-0367	LF	78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	130.04	
		For Up To 75, Add	27.84	
		For >75 To 150, Add	13.00	
		For >500 To 1,000, Deduct	-3.33	
		For >1,000 To 2,000, Deduct	-6.48	
		For >2,000 To 5,000, Deduct	-10.00	
		For >5,000, Deduct	-14.83	
33 01 30 79-0368	LF	84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	140.05	
		For Up To 75, Add	29.98	
		For >75 To 150, Add	14.01	
		For >500 To 1,000, Deduct	-3.59	
		For >1,000 To 2,000, Deduct	-6.98	
		For >2,000 To 5,000, Deduct	-10.77	
		For >5,000, Deduct	-15.98	
33 01 30 79-0369	LF	90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	150.05	
		For Up To 75, Add	32.12	
		For >75 To 150, Add	15.01	
		For >500 To 1,000, Deduct	-3.85	
		For >1,000 To 2,000, Deduct	-7.48	
		For >2,000 To 5,000, Deduct	-11.54	
		For >5,000, Deduct	-17.12	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0370 LF 96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	160.06	
For Up To 75, Add	34.27	
For >75 To 150, Add	16.01	
For >500 To 1,000, Deduct	-4.10	
For >1,000 To 2,000, Deduct	-7.98	
For >2,000 To 5,000, Deduct	-12.31	
For >5,000, Deduct	-18.26	
33 01 30 79-0371 LF 102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	170.06	
For Up To 75, Add	36.41	
For >75 To 150, Add	17.01	
For >500 To 1,000, Deduct	-4.36	
For >1,000 To 2,000, Deduct	-8.48	
For >2,000 To 5,000, Deduct	-13.08	
For >5,000, Deduct	-19.40	
33 01 30 79-0372 LF 108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	180.06	
For Up To 75, Add	38.55	
For >75 To 150, Add	18.01	
For >500 To 1,000, Deduct	-4.62	
For >1,000 To 2,000, Deduct	-8.98	
For >2,000 To 5,000, Deduct	-13.85	
For >5,000, Deduct	-20.54	
33 01 30 79-0373 LF 114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	190.06	
For Up To 75, Add	40.69	
For >75 To 150, Add	19.01	
For >500 To 1,000, Deduct	-4.87	
For >1,000 To 2,000, Deduct	-9.48	
For >2,000 To 5,000, Deduct	-14.61	
For >5,000, Deduct	-21.68	
33 01 30 79-0374 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	200.06	
For Up To 75, Add	42.83	
For >75 To 150, Add	20.01	
For >500 To 1,000, Deduct	-5.13	
For >1,000 To 2,000, Deduct	-9.97	
For >2,000 To 5,000, Deduct	-15.38	
For >5,000, Deduct	-22.82	
33 01 30 79-0375 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane.....	6.38	
33 01 30 79-0376 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane (33 01 30 79-0322)		
Note: Two part structural polyurethane.		
33 01 30 79-0377 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	71.69	
For Up To 75, Add	15.23	
For >75 To 150, Add	7.17	
For >500 To 1,000, Deduct	-1.79	
For >1,000 To 2,000, Deduct	-3.49	
For >2,000 To 5,000, Deduct	-5.37	
For >5,000, Deduct	-8.06	
33 01 30 79-0378 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	83.65	
For Up To 75, Add	17.77	
For >75 To 150, Add	8.37	
For >500 To 1,000, Deduct	-2.09	
For >1,000 To 2,000, Deduct	-4.07	
For >2,000 To 5,000, Deduct	-6.26	
For >5,000, Deduct	-9.40	
33 01 30 79-0379 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	95.58	
For Up To 75, Add	20.30	
For >75 To 150, Add	9.56	
For >500 To 1,000, Deduct	-2.39	
For >1,000 To 2,000, Deduct	-4.65	
For >2,000 To 5,000, Deduct	-7.16	
For >5,000, Deduct	-10.74	
33 01 30 79-0380 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	107.53	
For Up To 75, Add	22.84	
For >75 To 150, Add	10.75	
For >500 To 1,000, Deduct	-2.68	
For >1,000 To 2,000, Deduct	-5.24	
For >2,000 To 5,000, Deduct	-8.05	
For >5,000, Deduct	-12.09	
33 01 30 79-0381 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	119.49	
For Up To 75, Add	25.38	
For >75 To 150, Add	11.95	
For >500 To 1,000, Deduct	-2.98	
For >1,000 To 2,000, Deduct	-5.82	
For >2,000 To 5,000, Deduct	-8.95	
For >5,000, Deduct	-13.43	
33 01 30 79-0382 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	131.43	
For Up To 75, Add	27.92	
For >75 To 150, Add	13.14	
For >500 To 1,000, Deduct	-3.28	
For >1,000 To 2,000, Deduct	-6.40	
For >2,000 To 5,000, Deduct	-9.84	
For >5,000, Deduct	-14.77	



		Utilities	33	33
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0383	LF	72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	143.39	
		For Up To 75, Add	30.46	
		For >75 To 150, Add	14.34	
		For >500 To 1,000, Deduct	-3.58	
		For >1,000 To 2,000, Deduct	-6.98	
		For >2,000 To 5,000, Deduct	-10.74	
		For >5,000, Deduct	-16.12	
33 01 30 79-0384	LF	78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	155.33	
		For Up To 75, Add	32.99	
		For >75 To 150, Add	15.53	
		For >500 To 1,000, Deduct	-3.88	
		For >1,000 To 2,000, Deduct	-7.56	
		For >2,000 To 5,000, Deduct	-11.63	
		For >5,000, Deduct	-17.46	
33 01 30 79-0385	LF	84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	167.27	
		For Up To 75, Add	35.53	
		For >75 To 150, Add	16.73	
		For >500 To 1,000, Deduct	-4.18	
		For >1,000 To 2,000, Deduct	-8.14	
		For >2,000 To 5,000, Deduct	-12.53	
		For >5,000, Deduct	-18.80	
33 01 30 79-0386	LF	90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	179.23	
		For Up To 75, Add	38.07	
		For >75 To 150, Add	17.92	
		For >500 To 1,000, Deduct	-4.47	
		For >1,000 To 2,000, Deduct	-8.73	
		For >2,000 To 5,000, Deduct	-13.42	
		For >5,000, Deduct	-20.15	
33 01 30 79-0387	LF	96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	191.17	
		For Up To 75, Add	40.61	
		For >75 To 150, Add	19.12	
		For >500 To 1,000, Deduct	-4.77	
		For >1,000 To 2,000, Deduct	-9.31	
		For >2,000 To 5,000, Deduct	-14.32	
		For >5,000, Deduct	-21.49	
33 01 30 79-0388	LF	102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	203.13	
		For Up To 75, Add	43.15	
		For >75 To 150, Add	20.31	
		For >500 To 1,000, Deduct	-5.07	
		For >1,000 To 2,000, Deduct	-9.89	
		For >2,000 To 5,000, Deduct	-15.21	
		For >5,000, Deduct	-22.83	
33 01 30 79-0389	LF	108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	215.07	
		For Up To 75, Add	45.68	
		For >75 To 150, Add	21.51	
		For >500 To 1,000, Deduct	-5.37	
		For >1,000 To 2,000, Deduct	-10.47	
		For >2,000 To 5,000, Deduct	-16.11	
		For >5,000, Deduct	-24.18	
33 01 30 79-0390	LF	114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	227.01	
		For Up To 75, Add	48.22	
		For >75 To 150, Add	22.70	
		For >500 To 1,000, Deduct	-5.67	
		For >1,000 To 2,000, Deduct	-11.05	
		For >2,000 To 5,000, Deduct	-17.00	
		For >5,000, Deduct	-25.52	
33 01 30 79-0391	LF	120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	238.97	
		For Up To 75, Add	50.76	
		For >75 To 150, Add	23.90	
		For >500 To 1,000, Deduct	-5.97	
		For >1,000 To 2,000, Deduct	-11.63	
		For >2,000 To 5,000, Deduct	-17.90	
		For >5,000, Deduct	-26.86	
33 01 30 79-0392	SF	Structure Lining, Spray Applied With 250 mil Structural Polyurethane	7.61	
33 01 30 79-0393		Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 79-0322)		
		Note: Two part structural polyurethane.		
33 01 30 79-0394	LF	36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	83.45	
		For Up To 75, Add	17.63	
		For >75 To 150, Add	8.35	
		For >500 To 1,000, Deduct	-2.04	
		For >1,000 To 2,000, Deduct	-3.99	
		For >2,000 To 5,000, Deduct	-6.13	
		For >5,000, Deduct	-9.28	
33 01 30 79-0395	LF	42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	97.35	
		For Up To 75, Add	20.56	
		For >75 To 150, Add	9.74	
		For >500 To 1,000, Deduct	-2.38	
		For >1,000 To 2,000, Deduct	-4.66	
		For >2,000 To 5,000, Deduct	-7.15	
		For >5,000, Deduct	-10.83	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0396 LF 48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	111.27	
For Up To 75, Add	23.50	
For >75 To 150, Add	11.13	
For >500 To 1,000, Deduct	-2.72	
For >1,000 To 2,000, Deduct	-5.32	
For >2,000 To 5,000, Deduct	-8.17	
For >5,000, Deduct	-12.38	
33 01 30 79-0397 LF 54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	125.17	
For Up To 75, Add	26.44	
For >75 To 150, Add	12.52	
For >500 To 1,000, Deduct	-3.07	
For >1,000 To 2,000, Deduct	-5.99	
For >2,000 To 5,000, Deduct	-9.20	
For >5,000, Deduct	-13.92	
33 01 30 79-0398 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	139.08	
For Up To 75, Add	29.38	
For >75 To 150, Add	13.91	
For >500 To 1,000, Deduct	-3.41	
For >1,000 To 2,000, Deduct	-6.66	
For >2,000 To 5,000, Deduct	-10.22	
For >5,000, Deduct	-15.47	
33 01 30 79-0399 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	152.98	
For Up To 75, Add	32.31	
For >75 To 150, Add	15.30	
For >500 To 1,000, Deduct	-3.75	
For >1,000 To 2,000, Deduct	-7.32	
For >2,000 To 5,000, Deduct	-11.24	
For >5,000, Deduct	-17.01	
33 01 30 79-0400 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	166.90	
For Up To 75, Add	35.25	
For >75 To 150, Add	16.69	
For >500 To 1,000, Deduct	-4.09	
For >1,000 To 2,000, Deduct	-7.99	
For >2,000 To 5,000, Deduct	-12.26	
For >5,000, Deduct	-18.56	
33 01 30 79-0401 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	180.81	
For Up To 75, Add	38.19	
For >75 To 150, Add	18.08	
For >500 To 1,000, Deduct	-4.43	
For >1,000 To 2,000, Deduct	-8.65	
For >2,000 To 5,000, Deduct	-13.28	
For >5,000, Deduct	-20.11	
33 01 30 79-0402 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	194.71	
For Up To 75, Add	41.13	
For >75 To 150, Add	19.47	
For >500 To 1,000, Deduct	-4.77	
For >1,000 To 2,000, Deduct	-9.32	
For >2,000 To 5,000, Deduct	-14.30	
For >5,000, Deduct	-21.66	
33 01 30 79-0403 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	208.62	
For Up To 75, Add	44.06	
For >75 To 150, Add	20.86	
For >500 To 1,000, Deduct	-5.11	
For >1,000 To 2,000, Deduct	-9.98	
For >2,000 To 5,000, Deduct	-15.33	
For >5,000, Deduct	-23.20	
33 01 30 79-0404 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	222.53	
For Up To 75, Add	47.00	
For >75 To 150, Add	22.25	
For >500 To 1,000, Deduct	-5.45	
For >1,000 To 2,000, Deduct	-10.65	
For >2,000 To 5,000, Deduct	-16.35	
For >5,000, Deduct	-24.75	
33 01 30 79-0405 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	236.44	
For Up To 75, Add	49.94	
For >75 To 150, Add	23.64	
For >500 To 1,000, Deduct	-5.79	
For >1,000 To 2,000, Deduct	-11.31	
For >2,000 To 5,000, Deduct	-17.37	
For >5,000, Deduct	-26.30	
33 01 30 79-0406 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	250.34	
For Up To 75, Add	52.88	
For >75 To 150, Add	25.03	
For >500 To 1,000, Deduct	-6.13	
For >1,000 To 2,000, Deduct	-11.98	
For >2,000 To 5,000, Deduct	-18.39	
For >5,000, Deduct	-27.84	
33 01 30 79-0407 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	264.25	
For Up To 75, Add	55.81	
For >75 To 150, Add	26.43	
For >500 To 1,000, Deduct	-6.47	
For >1,000 To 2,000, Deduct	-12.65	
For >2,000 To 5,000, Deduct	-19.41	
For >5,000, Deduct	-29.39	



		Utilities	33	33
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 79-0408	LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	278.17		
	For Up To 75, Add	58.76		
	For >75 To 150, Add	27.82		
	For >500 To 1,000, Deduct	-6.81		
	For >1,000 To 2,000, Deduct	-13.31		
	For >2,000 To 5,000, Deduct	-20.44		
	For >5,000, Deduct	-30.94		
33 01 30 79-0409	SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane	8.86		
33 01 30 79-0410 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 79-0322)				
Note: Two part structural polyurethane.				
33 01 30 79-0411	LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	107.06		
	For Up To 75, Add	22.45		
	For >75 To 150, Add	10.71		
	For >500 To 1,000, Deduct	-2.56		
	For >1,000 To 2,000, Deduct	-5.01		
	For >2,000 To 5,000, Deduct	-7.67		
	For >5,000, Deduct	-11.75		
33 01 30 79-0412	LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	124.90		
	For Up To 75, Add	26.19		
	For >75 To 150, Add	12.49		
	For >500 To 1,000, Deduct	-2.98		
	For >1,000 To 2,000, Deduct	-5.85		
	For >2,000 To 5,000, Deduct	-8.95		
	For >5,000, Deduct	-13.70		
33 01 30 79-0413	LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	142.73		
	For Up To 75, Add	29.93		
	For >75 To 150, Add	14.27		
	For >500 To 1,000, Deduct	-3.41		
	For >1,000 To 2,000, Deduct	-6.68		
	For >2,000 To 5,000, Deduct	-10.23		
	For >5,000, Deduct	-15.66		
33 01 30 79-0414	LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	160.58		
	For Up To 75, Add	33.68		
	For >75 To 150, Add	16.06		
	For >500 To 1,000, Deduct	-3.84		
	For >1,000 To 2,000, Deduct	-7.52		
	For >2,000 To 5,000, Deduct	-11.51		
	For >5,000, Deduct	-17.62		
33 01 30 79-0415	LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	178.42		
	For Up To 75, Add	37.42		
	For >75 To 150, Add	17.84		
	For >500 To 1,000, Deduct	-4.26		
	For >1,000 To 2,000, Deduct	-8.35		
	For >2,000 To 5,000, Deduct	-12.79		
	For >5,000, Deduct	-19.58		
33 01 30 79-0416	LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	196.27		
	For Up To 75, Add	41.16		
	For >75 To 150, Add	19.63		
	For >500 To 1,000, Deduct	-4.69		
	For >1,000 To 2,000, Deduct	-9.19		
	For >2,000 To 5,000, Deduct	-14.07		
	For >5,000, Deduct	-21.53		
33 01 30 79-0417	LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	214.10		
	For Up To 75, Add	44.90		
	For >75 To 150, Add	21.41		
	For >500 To 1,000, Deduct	-5.11		
	For >1,000 To 2,000, Deduct	-10.02		
	For >2,000 To 5,000, Deduct	-15.34		
	For >5,000, Deduct	-23.49		
33 01 30 79-0418	LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	231.94		
	For Up To 75, Add	48.64		
	For >75 To 150, Add	23.19		
	For >500 To 1,000, Deduct	-5.54		
	For >1,000 To 2,000, Deduct	-10.86		
	For >2,000 To 5,000, Deduct	-16.62		
	For >5,000, Deduct	-25.45		
33 01 30 79-0419	LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	249.79		
	For Up To 75, Add	52.39		
	For >75 To 150, Add	24.98		
	For >500 To 1,000, Deduct	-5.97		
	For >1,000 To 2,000, Deduct	-11.69		
	For >2,000 To 5,000, Deduct	-17.90		
	For >5,000, Deduct	-27.41		
33 01 30 79-0420	LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	267.63		
	For Up To 75, Add	56.13		
	For >75 To 150, Add	26.76		
	For >500 To 1,000, Deduct	-6.39		
	For >1,000 To 2,000, Deduct	-12.53		
	For >2,000 To 5,000, Deduct	-19.18		
	For >5,000, Deduct	-29.36		

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0421 LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	285.47	
For Up To 75, Add	59.87	
For >75 To 150, Add	28.55	
For >500 To 1,000, Deduct	-6.82	
For >1,000 To 2,000, Deduct	-13.36	
For >2,000 To 5,000, Deduct	-20.46	
For >5,000, Deduct	-31.32	
33 01 30 79-0422 LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	303.31	
For Up To 75, Add	63.61	
For >75 To 150, Add	30.33	
For >500 To 1,000, Deduct	-7.25	
For >1,000 To 2,000, Deduct	-14.20	
For >2,000 To 5,000, Deduct	-21.74	
For >5,000, Deduct	-33.28	
33 01 30 79-0423 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	321.16	
For Up To 75, Add	67.35	
For >75 To 150, Add	32.12	
For >500 To 1,000, Deduct	-7.67	
For >1,000 To 2,000, Deduct	-15.03	
For >2,000 To 5,000, Deduct	-23.01	
For >5,000, Deduct	-35.24	
33 01 30 79-0424 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	339.00	
For Up To 75, Add	71.09	
For >75 To 150, Add	33.90	
For >500 To 1,000, Deduct	-8.10	
For >1,000 To 2,000, Deduct	-15.87	
For >2,000 To 5,000, Deduct	-24.29	
For >5,000, Deduct	-37.19	
33 01 30 79-0425 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	356.83	
For Up To 75, Add	74.83	
For >75 To 150, Add	35.68	
For >500 To 1,000, Deduct	-8.52	
For >1,000 To 2,000, Deduct	-16.70	
For >2,000 To 5,000, Deduct	-25.57	
For >5,000, Deduct	-39.15	
33 01 30 79-0426 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane.....	11.36	
33 01 30 79-0427 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane (33 01 30 79-0322)		
Note: Two part structural polyurethane.		
33 01 30 79-0428 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	130.93	
For Up To 75, Add	27.34	
For >75 To 150, Add	13.09	
For >500 To 1,000, Deduct	-3.08	
For >1,000 To 2,000, Deduct	-6.05	
For >2,000 To 5,000, Deduct	-9.24	
For >5,000, Deduct	-14.25	
33 01 30 79-0429 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	152.73	
For Up To 75, Add	31.89	
For >75 To 150, Add	15.27	
For >500 To 1,000, Deduct	-3.59	
For >1,000 To 2,000, Deduct	-7.05	
For >2,000 To 5,000, Deduct	-10.78	
For >5,000, Deduct	-16.62	
33 01 30 79-0430 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	174.56	
For Up To 75, Add	36.45	
For >75 To 150, Add	17.46	
For >500 To 1,000, Deduct	-4.11	
For >1,000 To 2,000, Deduct	-8.06	
For >2,000 To 5,000, Deduct	-12.32	
For >5,000, Deduct	-19.00	
33 01 30 79-0431 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	196.39	
For Up To 75, Add	41.01	
For >75 To 150, Add	19.64	
For >500 To 1,000, Deduct	-4.62	
For >1,000 To 2,000, Deduct	-9.07	
For >2,000 To 5,000, Deduct	-13.86	
For >5,000, Deduct	-21.37	
33 01 30 79-0432 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	218.20	
For Up To 75, Add	45.57	
For >75 To 150, Add	21.82	
For >500 To 1,000, Deduct	-5.13	
For >1,000 To 2,000, Deduct	-10.08	
For >2,000 To 5,000, Deduct	-15.40	
For >5,000, Deduct	-23.75	
33 01 30 79-0433 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	240.03	
For Up To 75, Add	50.13	
For >75 To 150, Add	24.00	
For >500 To 1,000, Deduct	-5.65	
For >1,000 To 2,000, Deduct	-11.08	
For >2,000 To 5,000, Deduct	-16.94	
For >5,000, Deduct	-26.12	



		Utilities	33	33
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0434	LF		72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	261.84	
			For Up To 75, Add	54.68	
			For >75 To 150, Add	26.18	
			For >500 To 1,000, Deduct	-6.16	
			For >1,000 To 2,000, Deduct	-12.09	
			For >2,000 To 5,000, Deduct	-18.48	
			For >5,000, Deduct	-28.50	
33 01 30 79-0435	LF		78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	283.66	
			For Up To 75, Add	59.24	
			For >75 To 150, Add	28.37	
			For >500 To 1,000, Deduct	-6.67	
			For >1,000 To 2,000, Deduct	-13.10	
			For >2,000 To 5,000, Deduct	-20.02	
			For >5,000, Deduct	-30.87	
33 01 30 79-0436	LF		84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	305.49	
			For Up To 75, Add	63.80	
			For >75 To 150, Add	30.55	
			For >500 To 1,000, Deduct	-7.19	
			For >1,000 To 2,000, Deduct	-14.11	
			For >2,000 To 5,000, Deduct	-21.57	
			For >5,000, Deduct	-33.25	
33 01 30 79-0437	LF		90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	327.31	
			For Up To 75, Add	68.35	
			For >75 To 150, Add	32.73	
			For >500 To 1,000, Deduct	-7.70	
			For >1,000 To 2,000, Deduct	-15.12	
			For >2,000 To 5,000, Deduct	-23.11	
			For >5,000, Deduct	-35.62	
33 01 30 79-0438	LF		96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	349.12	
			For Up To 75, Add	72.91	
			For >75 To 150, Add	34.91	
			For >500 To 1,000, Deduct	-8.22	
			For >1,000 To 2,000, Deduct	-16.12	
			For >2,000 To 5,000, Deduct	-24.65	
			For >5,000, Deduct	-37.99	
33 01 30 79-0439	LF		102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	370.95	
			For Up To 75, Add	77.47	
			For >75 To 150, Add	37.10	
			For >500 To 1,000, Deduct	-8.73	
			For >1,000 To 2,000, Deduct	-17.13	
			For >2,000 To 5,000, Deduct	-26.19	
			For >5,000, Deduct	-40.37	
33 01 30 79-0440	LF		108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	392.77	
			For Up To 75, Add	82.02	
			For >75 To 150, Add	39.28	
			For >500 To 1,000, Deduct	-9.24	
			For >1,000 To 2,000, Deduct	-18.14	
			For >2,000 To 5,000, Deduct	-27.73	
			For >5,000, Deduct	-42.74	
33 01 30 79-0441	LF		114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	414.59	
			For Up To 75, Add	86.58	
			For >75 To 150, Add	41.46	
			For >500 To 1,000, Deduct	-9.76	
			For >1,000 To 2,000, Deduct	-19.15	
			For >2,000 To 5,000, Deduct	-29.27	
			For >5,000, Deduct	-45.12	
33 01 30 79-0442	LF		120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	436.40	
			For Up To 75, Add	91.13	
			For >75 To 150, Add	43.64	
			For >500 To 1,000, Deduct	-10.27	
			For >1,000 To 2,000, Deduct	-20.15	
			For >2,000 To 5,000, Deduct	-30.81	
			For >5,000, Deduct	-47.49	
33 01 30 79-0443	SF		Structure Lining, Spray Applied With 500 mil Structural Polyurethane	13.90	
33 01 30 79-0444			Relining Underground Water Pipelines (33 01 30 79) Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.		
33 01 30 79-0445			Relining Underground Water Pipelines Set-Up And Reinsertion (33 01 30 79-0444)		
33 01 30 79-0446	EA		Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines	4,023.17	
33 01 30 79-0447	EA		Move And Reset Up At Different Access/Location.....	1,609.27	
33 01 30 79-0448			Lining Pipe With Cement (33 01 30 79-0444)		
33 01 30 79-0449	LF		Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement	48.42	
			For 3/16" Thickness, Add	0.57	
			For 1/4" Thickness, Add	1.13	
33 01 30 79-0450	LF		>500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement	43.08	
			For 3/16" Thickness, Add	0.57	
			For 1/4" Thickness, Add	1.13	
33 01 30 79-0451	LF		>1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement	35.93	
			For 3/16" Thickness, Add	0.57	
			For 1/4" Thickness, Add	1.13	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0452 LF >5,000', 4" Pipe, 1/8" Pipe Lining With Cement	26.95	
For 3/16" Thickness, Add	0.57	
For 1/4" Thickness, Add	1.13	
33 01 30 79-0453 LF Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement	50.21	
For 3/16" Thickness, Add	0.85	
For 1/4" Thickness, Add	1.69	
33 01 30 79-0454 LF >500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement	44.66	
For 3/16" Thickness, Add	0.85	
For 1/4" Thickness, Add	1.69	
33 01 30 79-0455 LF >1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement	37.26	
For 3/16" Thickness, Add	0.85	
For 1/4" Thickness, Add	1.69	
33 01 30 79-0456 LF >5,000', 6" Pipe, 1/8" Pipe Lining With Cement	28.15	
For 3/16" Thickness, Add	0.85	
For 1/4" Thickness, Add	1.69	
33 01 30 79-0457 LF Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement	51.92	
For 3/16" Thickness, Add	1.13	
For 1/4" Thickness, Add	2.25	
33 01 30 79-0458 LF >500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement	46.25	
For 3/16" Thickness, Add	1.13	
For 1/4" Thickness, Add	2.25	
33 01 30 79-0459 LF >1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement	38.60	
For 3/16" Thickness, Add	1.13	
For 1/4" Thickness, Add	2.25	
33 01 30 79-0460 LF >5,000', 8" Pipe, 1/8" Pipe Lining With Cement	29.37	
For 3/16" Thickness, Add	1.13	
For 1/4" Thickness, Add	2.25	
33 01 30 79-0461 LF Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement	53.18	
For 3/16" Thickness, Add	1.41	
For 1/4" Thickness, Add	2.82	
33 01 30 79-0462 LF >500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement	47.43	
For 3/16" Thickness, Add	1.41	
For 1/4" Thickness, Add	2.82	
33 01 30 79-0463 LF >1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement	39.66	
For 3/16" Thickness, Add	1.41	
For 1/4" Thickness, Add	2.82	
33 01 30 79-0464 LF >5,000', 10" Pipe, 1/8" Pipe Lining With Cement	30.59	
For 3/16" Thickness, Add	1.41	
For 1/4" Thickness, Add	2.82	
33 01 30 79-0465 LF Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement	57.38	
For 3/16" Thickness, Add	1.69	
For 1/4" Thickness, Add	3.38	
33 01 30 79-0466 LF >500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement	51.26	
For 3/16" Thickness, Add	1.69	
For 1/4" Thickness, Add	3.38	
33 01 30 79-0467 LF >1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement	43.00	
For 3/16" Thickness, Add	1.69	
For 1/4" Thickness, Add	3.38	
33 01 30 79-0468 LF >5,000', 12" Pipe, 1/8" Pipe Lining With Cement	33.19	
For 3/16" Thickness, Add	1.69	
For 1/4" Thickness, Add	3.38	
33 01 30 79-0469 LF Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	61.27	
For 1/4" Thickness, Add	1.88	
For 5/16" Thickness, Add	3.76	
33 01 30 79-0470 LF >500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	54.92	
For 1/4" Thickness, Add	1.88	
For 5/16" Thickness, Add	3.76	
33 01 30 79-0471 LF >1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	46.32	
For 1/4" Thickness, Add	1.88	
For 5/16" Thickness, Add	3.76	
33 01 30 79-0472 LF >5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	36.92	
For 1/4" Thickness, Add	1.88	
For 5/16" Thickness, Add	3.76	
33 01 30 79-0473 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	64.02	
For 1/4" Thickness, Add	2.25	
For 5/16" Thickness, Add	4.51	
33 01 30 79-0474 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	57.48	
For 1/4" Thickness, Add	2.25	
For 5/16" Thickness, Add	4.51	
33 01 30 79-0475 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	48.59	
For 1/4" Thickness, Add	2.25	
For 5/16" Thickness, Add	4.51	
33 01 30 79-0476 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	39.68	
For 1/4" Thickness, Add	2.25	
For 5/16" Thickness, Add	4.51	
33 01 30 79-0477 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	67.52	
For 1/4" Thickness, Add	2.63	
For 5/16" Thickness, Add	5.26	
33 01 30 79-0478 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	60.75	
For 1/4" Thickness, Add	2.63	
For 5/16" Thickness, Add	5.26	
33 01 30 79-0479 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	51.42	
For 1/4" Thickness, Add	2.63	
For 5/16" Thickness, Add	5.26	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0480	LF	>5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	43.10	
		For 1/4" Thickness, Add	2.63	
		For 5/16" Thickness, Add	5.26	
33 01 30 79-0481	LF	Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	71.10	
		For 1/4" Thickness, Add	3.01	
		For 5/16" Thickness, Add	6.01	
33 01 30 79-0482	LF	>500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	64.05	
		For 1/4" Thickness, Add	3.01	
		For 5/16" Thickness, Add	6.01	
33 01 30 79-0483	LF	>1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	54.44	
		For 1/4" Thickness, Add	3.01	
		For 5/16" Thickness, Add	6.01	
33 01 30 79-0484	LF	>5,000', 24" Pipe, 3/16" Pipe Lining With Cement	46.67	
		For 1/4" Thickness, Add	3.01	
		For 5/16" Thickness, Add	6.01	
33 01 30 79-0485	LF	Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	75.72	
		For 1/4" Thickness, Add	3.76	
		For 5/16" Thickness, Add	7.51	
33 01 30 79-0486	LF	>500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	68.26	
		For 1/4" Thickness, Add	3.76	
		For 5/16" Thickness, Add	7.51	
33 01 30 79-0487	LF	>1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	58.07	
		For 1/4" Thickness, Add	3.76	
		For 5/16" Thickness, Add	7.51	
33 01 30 79-0488	LF	>5,000', 30" Pipe, 3/16" Pipe Lining With Cement	50.23	
		For 1/4" Thickness, Add	3.76	
		For 5/16" Thickness, Add	7.51	
33 01 30 79-0489	LF	Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	80.27	
		For 1/4" Thickness, Add	4.51	
		For 5/16" Thickness, Add	9.02	
33 01 30 79-0490	LF	500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	72.48	
		For 1/4" Thickness, Add	4.51	
		For 5/16" Thickness, Add	9.02	
33 01 30 79-0491	LF	>1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	61.73	
		For 1/4" Thickness, Add	4.51	
		For 5/16" Thickness, Add	9.02	
33 01 30 79-0492	LF	>5,000', 36" Pipe, 3/16" Pipe Lining With Cement	53.81	
		For 1/4" Thickness, Add	4.51	
		For 5/16" Thickness, Add	9.02	
33 01 30 79-0493	LF	Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	96.61	
		For 3/8" Thickness, Add	11.84	
		For 7/16" Thickness, Add	17.75	
33 01 30 79-0494	LF	>500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	88.13	
		For 3/8" Thickness, Add	11.84	
		For 7/16" Thickness, Add	17.75	
33 01 30 79-0495	LF	>1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	76.44	
		For 3/8" Thickness, Add	11.84	
		For 7/16" Thickness, Add	17.75	
33 01 30 79-0496	LF	>5,000', 42" Pipe, 1/4" Pipe Lining With Cement	68.27	
		For 3/8" Thickness, Add	11.84	
		For 7/16" Thickness, Add	17.75	
33 01 30 79-0497	LF	Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	106.12	
		For 3/8" Thickness, Add	13.53	
		For 7/16" Thickness, Add	20.29	
33 01 30 79-0498	LF	>500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	97.05	
		For 3/8" Thickness, Add	13.53	
		For 7/16" Thickness, Add	20.29	
33 01 30 79-0499	LF	>1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	84.47	
		For 3/8" Thickness, Add	13.53	
		For 7/16" Thickness, Add	20.29	
33 01 30 79-0500	LF	>5,000', 48" Pipe, 1/4" Pipe Lining With Cement	76.14	
		For 3/8" Thickness, Add	13.53	
		For 7/16" Thickness, Add	20.29	
33 01 30 79-0501	LF	Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement	110.97	
		For 3/8" Thickness, Add	15.22	
		For 7/16" Thickness, Add	22.82	
33 01 30 79-0502	LF	>500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	101.70	
		For 3/8" Thickness, Add	15.22	
		For 7/16" Thickness, Add	22.82	
33 01 30 79-0503	LF	>1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	88.84	
		For 3/8" Thickness, Add	15.22	
		For 7/16" Thickness, Add	22.82	
33 01 30 79-0504	LF	>5,000', 54" Pipe, 1/4" Pipe Lining With Cement	80.83	
		For 3/8" Thickness, Add	15.22	
		For 7/16" Thickness, Add	22.82	
33 01 30 79-0505	LF	Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement	115.83	
		For 3/8" Thickness, Add	16.91	
		For 7/16" Thickness, Add	25.37	
33 01 30 79-0506	LF	>500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	106.40	
		For 3/8" Thickness, Add	16.91	
		For 7/16" Thickness, Add	25.37	
33 01 30 79-0507	LF	>1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	93.29	
		For 3/8" Thickness, Add	16.91	
		For 7/16" Thickness, Add	25.37	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0508 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement	85.53	
For 3/8" Thickness, Add	16.91	
For 7/16" Thickness, Add	25.37	
33 01 30 79-0509 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement.....	120.93	
For 3/8" Thickness, Add	18.60	
For 7/16" Thickness, Add	27.90	
33 01 30 79-0510 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	111.29	
For 3/8" Thickness, Add	18.60	
For 7/16" Thickness, Add	27.90	
33 01 30 79-0511 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	97.97	
For 3/8" Thickness, Add	18.60	
For 7/16" Thickness, Add	27.90	
33 01 30 79-0512 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement	90.79	
For 3/8" Thickness, Add	18.60	
For 7/16" Thickness, Add	27.90	
33 01 30 79-0513 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement.....	126.35	
For 3/8" Thickness, Add	20.29	
For 7/16" Thickness, Add	30.44	
33 01 30 79-0514 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	116.55	
For 3/8" Thickness, Add	20.29	
For 7/16" Thickness, Add	30.44	
33 01 30 79-0515 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	102.90	
For 3/8" Thickness, Add	20.29	
For 7/16" Thickness, Add	30.44	
33 01 30 79-0516 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement	96.13	
For 3/8" Thickness, Add	20.29	
For 7/16" Thickness, Add	30.44	

33 01 30 81 Manhole Rehabilitation (33 01 30)**33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)**

Note: Work is in confined spaces.

33 01 30 81-0002 Inspection And Ventilation System Set-up (33 01 30 81-0001)

33 01 30 81-0003 EA Inspect Manhole.....	144.13
33 01 30 81-0004 EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	8,794.46
Note: For internal inspection and repair of water mains.	
33 01 30 81-0005 EA Installation And Maintenance Of Ventilation System, 60" to 108" diameter to 2,600'.....	12,401.84
Note: For internal inspection and repair of water mains	

33 01 30 81-0006 Manhole Seals (33 01 30 81-0001)**33 01 30 81-0007 Internal Manhole Chimney Seals (33 01 30 81-0006)**

Note: Cretex.

33 01 30 81-0008 EA 20" Internal Manhole Chimney Seal.....	393.17
33 01 30 81-0009 EA 22" Internal Manhole Chimney Seal.....	414.42
33 01 30 81-0010 EA 24" Internal Manhole Chimney Seal.....	425.05
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	488.81
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	552.57
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	616.31
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	743.83

33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006)

Note: Wrapidseal.

33 01 30 81-0016 EA 24" External Manhole Encapsulation	573.82
33 01 30 81-0017 EA 30" External Manhole Encapsulation	605.70
33 01 30 81-0018 EA 36" External Manhole Encapsulation	648.19
33 01 30 81-0019 EA 42" External Manhole Encapsulation	701.32
33 01 30 81-0020 EA 48" External Manhole Encapsulation	775.72
33 01 30 81-0021 EA 54" External Manhole Encapsulation	860.72
33 01 30 81-0022 EA 60" External Manhole Encapsulation	966.98

33 01 30 81-0023 Manhole Crack Repair (33 01 30 81-0001)

Note: Includes removing loose materials and cleaning.

33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	42.46
33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	57.25
33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	39.88
33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair.....	53.91

33 01 30 81-0028 Manhole Patching (33 01 30 81-0001)

Note: Includes removing loose materials and cleaning.

33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	12.91
33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	33.62

33 01 30 81-0031 Manhole Joint Restoration (33 01 30 81-0001)

Note: Includes drilling holes at joints, fill joints with grout.



		Utilities	33	CS
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 81-0032	EA	3' Diameter Joint Restoration, Grout Fill Per Each Manhole..... Note: Includes two (2) joints sections to be grouted and two (2) pipe connections. For Grouting Each Additional Manhole Joint Section, Add	1,471.86 192.89		
33 01 30 81-0033	EA	3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole..... Note: Includes two (2) joints sections to be grouted and two (2) pipe connections. For Grouting Each Additional Manhole Joint Section, Add	1,718.11 212.54		
33 01 30 81-0034	EA	4' Diameter Joint Restoration, Grout Fill Per Each Manhole..... Note: Includes two (2) joints sections to be grouted and two (2) pipe connections. For Grouting Each Additional Manhole Joint Section, Add	1,962.49 232.19		
33 01 30 81-0035	EA	5' Diameter Joint Restoration, Grout Fill Per Each Manhole..... Note: Includes two (2) joints sections to be grouted and two (2) pipe connections. For Grouting Each Additional Manhole Joint Section, Add	2,306.68 242.01		
33 01 30 81-0036	EA	6' Diameter Joint Restoration, Grout Fill Per Each Manhole..... Note: Includes two (2) joints sections to be grouted and two (2) pipe connections. For Grouting Each Additional Manhole Joint Section, Add	2,649.94 251.83		
33 01 30 81-0037		Step Installation In Existing Manholes (33 01 30 81-0001) Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.			
33 01 30 81-0038	EA	Drill And Grout 7" x 9" Cast Iron Manhole Steps.....	85.69		17.32
33 01 30 81-0039	EA	Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	91.56		17.32
33 01 30 81-0040	EA	Drill And Grout Galvanized Steel Manhole Step	78.50		17.32
33 01 30 81-0041	EA	Bolt On Galvanized Steel Manhole Step.....	97.47		17.32
33 01 30 81-0042	EA	Drill And Grout Aluminum Manhole Step	90.77		17.32
33 01 30 81-0043	EA	Drill And Insert Polypropylene Manhole Step.....	48.46		13.86
33 01 30 81-0044		Invert Restoration (33 01 30 81-0001) Note: Includes removal of existing defective material and installation of new material.			
33 01 30 81-0045		Concrete Invert Restoration (33 01 30 81-0044)			
33 01 30 81-0046	EA	2' Diameter, Concrete Invert Restoration.....	295.80		
33 01 30 81-0047	EA	3' Diameter, Concrete Invert Restoration.....	331.84		
33 01 30 81-0048	EA	4' Diameter, Concrete Invert Restoration.....	367.86		
33 01 30 81-0049	EA	5' Diameter, Concrete Invert Restoration.....	403.90		
33 01 30 81-0050	EA	6' Diameter, Concrete Invert Restoration.....	511.99		
33 01 30 81-0051	SF	Square Or Rectangular, Concrete Invert Restoration	29.25		
33 01 30 81-0052		Brick Invert Restoration (33 01 30 81-0044)			
33 01 30 81-0053	EA	2' Diameter, Brick Invert Restoration	492.77		
33 01 30 81-0054	EA	3' Diameter, Brick Invert Restoration	528.80		
33 01 30 81-0055	EA	4' Diameter, Brick Invert Restoration	564.83		
33 01 30 81-0056	EA	5' Diameter, Brick Invert Restoration	600.87		
33 01 30 81-0057	EA	6' Diameter, Brick Invert Restoration	636.90		
33 01 30 81-0058	SF	Square Or Rectangular, Brick Invert Restoration.....	40.74		
33 01 30 82		Lining For Concrete Manholes (33 01 30)			
33 01 30 82-0001		Manhole Lining (33 01 30 82) Note: Includes power washing and cleaning of manhole interiors.			
33 01 30 82-0002		Cementitious Manhole Restoration, Interior (33 01 30 82-0001)			
33 01 30 82-0003	VLF	1/2" Cementitious Restoration On 3' Diameter Manhole Interior..... For Each Additional 1/2" Thick Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	117.55 31.13 -8.21 -13.48 -26.97		
33 01 30 82-0004	VLF	1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	136.32		
		For Each Additional 1/2" Thick Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	36.24 -9.52 -15.63 -31.25		
33 01 30 82-0005	VLF	1/2" Cementitious Restoration On 4' Diameter Manhole Interior..... For Each Additional 1/2" Thick Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	155.09 41.34 -10.82 -17.77 -35.54		
33 01 30 82-0006	VLF	1/2" Cementitious Restoration On 5' Diameter Manhole Interior..... For Each Additional 1/2" Thick Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	183.01 50.75 -12.71 -20.85 -41.70		
33 01 30 82-0007	VLF	1/2" Cementitious Restoration On 6' Diameter Manhole Interior..... For Each Additional 1/2" Thick Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	200.71 58.82 -13.84 -22.67 -45.33		
33 01 30 82-0008		Polyurethane Manhole Restoration, Interior (33 01 30 82-0001)			

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 82-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	232.80	
For 80 Mil Material, Add	20.50	
For 100 Mil Material, Add	41.00	
For 125 Mil Material, Add	62.47	
For 150 Mil Material, Add	83.95	
For 200 Mil Material, Add	115.86	
For 2 To 5 Manholes, Deduct	-17.17	
For 6 To 10 Manholes, Deduct	-28.51	
For >10 Manholes, Deduct	-57.02	
33 01 30 82-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	283.88	
For 80 Mil Material, Add	24.84	
For 100 Mil Material, Add	49.67	
For 125 Mil Material, Add	75.65	
For 150 Mil Material, Add	101.63	
For 200 Mil Material, Add	140.08	
For 2 To 5 Manholes, Deduct	-20.95	
For 6 To 10 Manholes, Deduct	-34.80	
For >10 Manholes, Deduct	-69.60	
33 01 30 82-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	310.41	
For 80 Mil Material, Add	27.33	
For 100 Mil Material, Add	54.66	
For 125 Mil Material, Add	83.30	
For 150 Mil Material, Add	111.94	
For 200 Mil Material, Add	154.48	
For 2 To 5 Manholes, Deduct	-22.89	
For 6 To 10 Manholes, Deduct	-38.02	
For >10 Manholes, Deduct	-76.03	
33 01 30 82-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	388.00	
For 80 Mil Material, Add	34.16	
For 100 Mil Material, Add	68.33	
For 125 Mil Material, Add	104.12	
For 150 Mil Material, Add	139.92	
For 200 Mil Material, Add	193.09	
For 2 To 5 Manholes, Deduct	-28.61	
For 6 To 10 Manholes, Deduct	-47.52	
For >10 Manholes, Deduct	-95.04	
33 01 30 82-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	465.60	
For 80 Mil Material, Add	41.00	
For 100 Mil Material, Add	81.99	
For 125 Mil Material, Add	124.95	
For 150 Mil Material, Add	167.90	
For 200 Mil Material, Add	231.71	
For 2 To 5 Manholes, Deduct	-34.33	
For 6 To 10 Manholes, Deduct	-57.02	
For >10 Manholes, Deduct	-114.05	
33 01 30 82-0014 Epoxy Manhole Restoration, Interior (33 01 30 82-0001)		
33 01 30 82-0015 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	254.70	
For 80 Mil Material, Add	27.80	
For 100 Mil Material, Add	55.60	
For 125 Mil Material, Add	86.20	
For 150 Mil Material, Add	116.80	
For 200 Mil Material, Add	166.96	
For 2 To 5 Manholes, Deduct	-18.26	
For 6 To 10 Manholes, Deduct	-30.15	
For >10 Manholes, Deduct	-60.31	
33 01 30 82-0016 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	309.46	
For 80 Mil Material, Add	33.36	
For 100 Mil Material, Add	66.72	
For 125 Mil Material, Add	103.36	
For 150 Mil Material, Add	140.00	
For 200 Mil Material, Add	199.76	
For 2 To 5 Manholes, Deduct	-22.23	
For 6 To 10 Manholes, Deduct	-36.72	
For >10 Manholes, Deduct	-73.44	
33 01 30 82-0017 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	339.60	
For 80 Mil Material, Add	37.06	
For 100 Mil Material, Add	74.12	
For 125 Mil Material, Add	114.92	
For 150 Mil Material, Add	155.72	
For 200 Mil Material, Add	222.59	
For 2 To 5 Manholes, Deduct	-24.35	
For 6 To 10 Manholes, Deduct	-40.21	
For >10 Manholes, Deduct	-80.41	
33 01 30 82-0018 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	424.53	
For 80 Mil Material, Add	46.34	
For 100 Mil Material, Add	92.68	
For 125 Mil Material, Add	143.70	
For 150 Mil Material, Add	194.72	
For 200 Mil Material, Add	278.33	
For 2 To 5 Manholes, Deduct	-30.44	
For 6 To 10 Manholes, Deduct	-50.26	
For >10 Manholes, Deduct	-100.52	



		Utilities	33	33
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 82-0019 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior For 80 Mil Material, Add For 100 Mil Material, Add For 125 Mil Material, Add For 150 Mil Material, Add For 200 Mil Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	509.43 55.61 111.21 172.43 233.65 333.98 -36.52 -60.31 -120.62	
33 01 30 82-0020 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 82-0001)		
33 01 30 82-0021 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	346.78 -20.73 -32.80 -65.60	
33 01 30 82-0022 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	424.59 -25.38 -40.14 -80.28	
33 01 30 82-0023 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	496.64 -29.36 -46.30 -92.60	
33 01 30 82-0024 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	622.63 -36.79 -58.01 -116.02	
33 01 30 82-0025 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	748.63 -44.22 -69.73 -139.45	
33 01 30 86 Manhole Rim Adjustment (33 01 30)		
33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)		
33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0003 EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser 33 01 30 86-0004 EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... 33 01 30 86-0005 EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... 33 01 30 86-0006 EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... 33 01 30 86-0007 EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	268.31 300.93 330.71 364.38 392.04	
33 01 30 86-0008 Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)		
33 01 30 86-0009 EA Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... 33 01 30 86-0010 EA >2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser 33 01 30 86-0011 EA >3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... 33 01 30 86-0012 EA >4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... 33 01 30 86-0013 EA >5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	312.84 340.66 375.40 409.08 441.68	
33 01 30 86-0014 Up To 6" Rise, >32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers (33 01 30 86-0001)		
33 01 30 86-0015 EA Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers 33 01 30 86-0016 EA >4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers..... 33 01 30 86-0017 EA >5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	360.49 380.81 402.77	
33 01 30 86-0018 >6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0019 EA >6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser..... 33 01 30 86-0020 EA 7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser 33 01 30 86-0021 EA 7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser 33 01 30 86-0022 EA 8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser 33 01 30 86-0023 EA 9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser 33 01 30 86-0024 EA 10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser 33 01 30 86-0025 EA 11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser 33 01 30 86-0026 EA 12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	437.78 475.63 514.16 545.25 591.93 634.64 676.61 719.58	
33 01 30 86-0027 >12" Rise, Solid Manhole Risers (33 01 30 86)		
33 01 30 86-0028 Precast Concrete Manhole Riser (33 01 30 86-0027)		
33 01 30 86-0029 VLF Up To 26" Diameter Precast Concrete Manhole Riser..... 33 01 30 86-0030 VLF >26" To 36" Diameter Precast Concrete Manhole Riser.....	94.09 112.21	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 01 30 86-0031	VLF	>36" To 48" Diameter Precast Concrete Manhole Riser	128.15
33 01 30 86-0032	VLF	>48" To 60" Diameter Precast Concrete Manhole Riser	258.43
33 01 30 86-0033	VLF	>60" To 72" Diameter Precast Concrete Manhole Riser	379.07

33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems ^(33 01)

33 01 34 13 Septic Tank Solids Removal ^(33 01 34)

33 01 34 13-0001 Pump Out Septic Tanks ^(33 01 34 13)

33 01 34 13-0002	GAL	Pump Out Septic Tank And Dispose.....	0.52

33 05 Common Work Results For Utilities ⁽³³⁾

33 05 07 Trenchless Installation of Utility Piping ^(33 05)

33 05 07 13 Utility Directional Drilling ^(33 05 07)

33 05 07 13-0001 Horizontal Augering ^(33 05 07 13)

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.

33 05 07 13-0002	LF	Up To 2" Diameter Horizontal Hand Augering	20.09
33 05 07 13-0003	LF	3" Diameter Horizontal Hand Augering	24.24
33 05 07 13-0004	LF	4" Diameter Horizontal Hand Augering	33.25
33 05 07 13-0005	LF	6" Diameter Horizontal Hand Augering	42.95
33 05 07 13-0006	LF	8" Diameter Horizontal Augering.....	76.27
33 05 07 13-0007	LF	10" Diameter Horizontal Augering.....	111.25
33 05 07 13-0008	LF	12" Diameter Horizontal Augering.....	133.69
33 05 07 13-0009	LF	16" Diameter Horizontal Augering.....	159.70
33 05 07 13-0010	LF	20" Diameter Horizontal Augering.....	276.34
33 05 07 13-0011	LF	24" Diameter Horizontal Augering.....	342.31
33 05 07 13-0012	LF	30" Diameter Horizontal Augering.....	422.22
33 05 07 13-0013	LF	36" Diameter Horizontal Augering.....	482.40
33 05 07 13-0014	LF	42" Diameter Horizontal Augering.....	614.08
33 05 07 13-0015	LF	48" Diameter Horizontal Augering.....	661.68
33 05 07 13-0016	LF	54" Diameter Horizontal Augering.....	719.61
33 05 07 13-0017	LF	60" Diameter Horizontal Augering.....	754.43
33 05 07 13-0018	EA	8" To 20" Horizontal Augering Minimum Set-up Charge	3,229.88
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.			
33 05 07 13-0019	EA	>20" To 36" Horizontal Augering Minimum Set-up Charge.....	4,340.56
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.			
33 05 07 13-0020	EA	>36" Horizontal Augering Minimum Set-up Charge	6,268.81
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.			

33 05 07 13-0021 Horizontal Directional Boring ^(33 05 07 13)

Note: Excludes receiving pits or dewatering or cost of casing pipe.

33 05 07 13-0022	LF	Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground.....	10.59
33 05 07 13-0023	LF	2" Diameter Directional Boring For Horizontal Pipe, Underground	15.89
33 05 07 13-0024	LF	2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	22.07
33 05 07 13-0025	LF	3" Diameter Directional Boring For Horizontal Pipe, Underground	27.36
33 05 07 13-0026	LF	4" Diameter Directional Boring For Horizontal Pipe, Underground	32.65
33 05 07 13-0027	LF	5" Diameter Directional Boring For Horizontal Pipe, Underground	37.94
33 05 07 13-0028	LF	6" Diameter Directional Boring For Horizontal Pipe, Underground	44.12
33 05 07 13-0029	LF	8" Diameter Directional Boring For Horizontal Pipe, Underground	53.83
33 05 07 13-0030	LF	10" Diameter Directional Boring For Horizontal Pipe, Underground	58.31
33 05 07 13-0031	LF	12" Diameter Directional Boring For Horizontal Pipe, Underground	62.81
33 05 07 13-0032	LF	18" Diameter Directional Boring For Horizontal Pipe, Underground	130.09
33 05 07 13-0033	LF	24" Diameter Directional Boring For Horizontal Pipe, Underground	202.23
33 05 07 13-0034	LF	30" Diameter Directional Boring For Horizontal Pipe, Underground	246.62
33 05 07 13-0035	LF	36" Diameter Directional Boring For Horizontal Pipe, Underground	394.60
33 05 07 13-0036	EA	Up To 6" Horizontal Directional Boring Minimum Set-up Charge	2,823.98
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.			
33 05 07 13-0037	EA	>6" To 18" Horizontal Directional Boring Minimum Set-up Charge.....	3,229.88
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.			
33 05 07 13-0038	EA	>18" To 36" Horizontal Directional Boring Minimum Set-up Charge	4,340.56
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.			

33 05 07 23 Utility Boring and Jacking ^(33 05 07)

33 05 07 23-0001 Horizontal Jacking ^(33 05 07 23)

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.

33 05 07 23-0002	LF	Up To 2" Diameter Horizontal Jacking	45.14
33 05 07 23-0003	LF	3" Diameter Horizontal Jacking.....	54.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 23-0004 LF 4" Diameter Horizontal Jacking.....	73.45	
33 05 07 23-0005 LF 6" Diameter Horizontal Jacking.....	94.92	
33 05 07 23-0006 LF 8" Diameter Horizontal Jacking.....	128.92	
33 05 07 23-0007 LF 10" Diameter Horizontal Jacking.....	188.81	
33 05 07 23-0008 LF 12" Diameter Horizontal Jacking.....	227.22	
33 05 07 23-0009 LF 16" Diameter Horizontal Jacking.....	271.32	
33 05 07 23-0010 LF 20" Diameter Horizontal Jacking.....	432.78	
33 05 07 23-0011 LF 24" Diameter Horizontal Jacking.....	663.38	
33 05 07 23-0012 LF 30" Diameter Horizontal Jacking.....	778.76	
33 05 07 23-0013 LF 36" Diameter Horizontal Jacking.....	881.35	
33 05 07 23-0014 LF 42" Diameter Horizontal Jacking.....	947.61	
33 05 07 23-0015 LF 48" Diameter Horizontal Jacking.....	1,026.46	
33 05 07 23-0016 LF 54" Diameter Horizontal Jacking.....	1,100.43	
33 05 07 23-0017 EA Up To 6" Horizontal Jacking Minimum Set-up Charge.....	2,823.98	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0018 EA >6" To 20" Horizontal Jacking Minimum Set-up Charge.....	3,229.88	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0019 EA >20" To 36" Horizontal Jacking Minimum Set-up Charge.....	4,340.56	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0020 EA >36" Horizontal Jacking Minimum Set-up Charge.....	6,268.81	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)

33 05 07 24-0001	Casing Pipe (33 05 07 24)	
Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.		
33 05 07 24-0002	Steel Pipe (33 05 07 24-0001)	
33 05 07 24-0003 LF 1-1/2" Steel Pipe Pull In Place By Boring Machine.....	11.50	
Note: Includes pipe welding.		
33 05 07 24-0004 LF 2" Steel Pipe Pull In Place By Boring Machine.....	12.20	
Note: Includes pipe welding.		
33 05 07 24-0005 LF 2-1/2" Steel Pipe Pull In Place By Boring Machine.....	13.15	
Note: Includes pipe welding.		
33 05 07 24-0006 LF 3" Steel Pipe Pull In Place By Boring Machine.....	14.13	
Note: Includes pipe welding.		
33 05 07 24-0007 LF 4" Steel Pipe Pull In Place By Boring Machine.....	17.76	
Note: Includes pipe welding.		
33 05 07 24-0008 LF 5" Steel Pipe Pull In Place By Boring Machine.....	20.03	
Note: Includes pipe welding.		
33 05 07 24-0009 LF 6" Steel Pipe Pull In Place By Boring Machine.....	22.30	
Note: Includes pipe welding.		
33 05 07 24-0010	Polyethylene Pipe (33 05 07 24-0001)	
33 05 07 24-0011 LF 3/4" Polyethylene Pipe Pull In Place By Boring Machine.....	4.50	
Note: Includes pipe welding.		
33 05 07 24-0012 LF 1" Polyethylene Pipe Pull In Place By Boring Machine.....	4.93	
Note: Includes pipe welding.		
33 05 07 24-0013 LF 1-1/4" Polyethylene Pipe Pull In Place By Boring Machine.....	5.35	
Note: Includes pipe welding.		
33 05 07 24-0014 LF 1-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	5.73	
Note: Includes pipe welding.		
33 05 07 24-0015 LF 2" Polyethylene Pipe Pull In Place By Boring Machine.....	6.12	
Note: Includes pipe welding.		
33 05 07 24-0016 LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	6.55	
Note: Includes pipe welding.		
33 05 07 24-0017 LF 3" Polyethylene Pipe Pull In Place By Boring Machine.....	6.99	
Note: Includes pipe welding.		
33 05 07 24-0018 LF 4" Polyethylene Pipe Pull In Place By Boring Machine.....	8.51	
Note: Includes pipe welding.		
33 05 07 24-0019 LF 5" Polyethylene Pipe Pull In Place By Boring Machine.....	9.42	
Note: Includes pipe welding.		
33 05 07 24-0020 LF 6" Polyethylene Pipe Pull In Place By Boring Machine.....	10.35	
Note: Includes pipe welding.		
33 05 07 24-0021 LF 8" Polyethylene Pipe Pull In Place By Boring Machine.....	13.52	
Note: Includes pipe welding.		
33 05 07 24-0022 LF 10" Polyethylene Pipe Pull In Place By Boring Machine.....	18.45	
Note: Includes pipe welding.		

33 05 61 Concrete Manholes (33 05)

33 05 61 00-0001	Manholes (33 05 61)	
33 05 61 00-0002	Cast In Place Concrete, 8" Thick (33 05 61 00-0001)	
Note: Includes base, wall, top and block-out for openings.		

33 Utilities**33 05 Common Work Results For Utilities****33 05 61 Concrete Manholes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0003 48" Diameter (33 05 61 00-0002)		
33 05 61 00-0004 EA 4' Diameter x 4' Deep Cast In Place Manhole 8" Thick.....	1,656.24	506.81
33 05 61 00-0005 EA 4' Diameter x 6' Deep Cast In Place Manhole 8" Thick.....	2,286.10	693.38
33 05 61 00-0006 EA 4' Diameter x 8' Deep Cast In Place Manhole 8" Thick.....	3,234.97	1,039.46
33 05 61 00-0007 VLF 4' Diameter x Vertical Linear Foot Depth Cast In Place Manhole 8" Thick, Over 8'.....	399.21	129.98
33 05 61 00-0008 Precast Concrete Manholes (33 05 61 00-0001)		
Note: Includes base, riser(s), reducer and openings. See CSI section 33 05 84 00-0002 for top slabs.		
33 05 61 00-0009 3' Diameter, 8" Thick Walls, Precast Concrete Manholes (33 05 61 00-0008)		
33 05 61 00-0010 EA 4' Deep x 3' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,090.31	239.87
For 6" Thick Wall, Deduct	-85.04	
33 05 61 00-0011 EA 6' Deep x 3' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,523.69	328.04
For 6" Thick Wall, Deduct	-119.57	
33 05 61 00-0012 EA 8' Deep x 3' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,108.80	492.05
For 6" Thick Wall, Deduct	-161.67	
33 05 61 00-0013 VLF Vertical Linear Foot Depth Over 8', x 3' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	259.59	65.61
For 6" Thick Wall, Deduct	-19.81	
33 05 61 00-0014 3'-6" Diameter, 8" Thick Walls, Precast Concrete Manholes (33 05 61 00-0008)		
33 05 61 00-0015 EA 4' Deep x 3'-6" Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,231.35	250.12
For 6" Thick Wall, Deduct	-98.12	
33 05 61 00-0016 EA 6' Deep x 3'-6" Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,714.90	341.97
For 6" Thick Wall, Deduct	-137.29	
33 05 61 00-0017 EA 8' Deep x 3'-6" Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,355.91	512.55
For 6" Thick Wall, Deduct	-184.34	
33 05 61 00-0018 VLF Vertical Linear Foot Depth Over 8', x 3'-6" Diameter, 8" Thick Walls, Precast Concrete Manhole.....	288.83	65.61
For 6" Thick Wall, Deduct	-22.49	
33 05 61 00-0019 4' Diameter, 8" Thick Walls, Precast Concrete Manholes (33 05 61 00-0008)		
33 05 61 00-0020 EA 4' Deep x 4' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,376.83	258.33
For 6" Thick Wall, Deduct	-111.68	
33 05 61 00-0021 EA 6' Deep x 4' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,910.34	352.63
For 6" Thick Wall, Deduct	-155.50	
33 05 61 00-0022 EA 8' Deep x 4' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,608.55	533.06
For 6" Thick Wall, Deduct	-207.55	
33 05 61 00-0023 VLF Vertical Linear Foot Depth Over 8', x 4' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	318.92	67.65
For 6" Thick Wall, Deduct	-25.23	
33 05 61 00-0024 VLF Vertical Linear Foot Depth x 4' Diameter, 8" Thick Walls, Precast Manhole Polyvinyl Chloride (PVC) Lined Riser / Cone.....	389.92	67.65
For 6" Thick Wall, Deduct	-32.33	
33 05 61 00-0025 5' Diameter, 8" Thick Walls, Precast Concrete Manholes (33 05 61 00-0008)		
33 05 61 00-0026 EA 4' Deep x 5' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,700.34	287.03
For 6" Thick Wall, Deduct	-141.25	
33 05 61 00-0027 EA 6' Deep x 5' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,339.29	393.64
For 6" Thick Wall, Deduct	-194.62	
33 05 61 00-0028 EA 8' Deep x 5' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	3,160.79	590.46
For 6" Thick Wall, Deduct	-257.11	
33 05 61 00-0029 VLF Vertical Linear Foot Depth Over 8', x 5' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	384.11	73.81
For 6" Thick Wall, Deduct	-31.03	
33 05 61 00-0030 VLF Vertical Linear Foot Depth x 5' Diameter, 8" Thick Walls, Precast Manhole Polyvinyl Chloride (PVC) Lined Riser / Cone.....	460.83	73.81
For 6" Thick Wall, Deduct	-38.70	
33 05 61 00-0031 6' Diameter, 8" Thick Walls, Precast Concrete Manholes (33 05 61 00-0008)		
33 05 61 00-0032 EA 4' Deep x 6' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,053.04	319.83
33 05 61 00-0033 EA 6' Deep x 6' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,801.91	434.65
33 05 61 00-0034 EA 8' Deep x 6' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	3,755.12	656.07
33 05 61 00-0035 VLF Vertical Linear Foot Depth Over 8', x 6' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	453.23	82.00
33 05 61 00-0036 VLF Vertical Linear Foot Depth x 6' Diameter, 8" Thick Walls, Precast Manhole Polyvinyl Chloride (PVC) Lined Riser / Cone.....	524.23	82.00
33 05 62 Brick Manholes (33 05)		
33 05 62 00-0001 Brick Manholes (33 05 62)		
33 05 62 00-0002 4' Inside Diameter x 8" Wall (2 Brick) (33 05 62 00-0001)		
33 05 62 00-0003 EA 4' Inside Diameter x 4' Deep Brick Manhole, 8" Wall.....	2,716.82	867.54
33 05 62 00-0004 EA 4' Inside Diameter x 6' Deep Brick Manhole, 8" Wall.....	3,948.79	1,277.65
33 05 62 00-0005 EA 4' Inside Diameter x 8' Deep Brick Manhole, 8" Wall.....	5,199.84	1,735.09
33 05 62 00-0006 VLF 4' Inside Diameter x Vertical Linear Foot Depth Brick Manhole, 8" Wall, Over 8'.....	682.47	216.88

33 05 63 Concrete Vaults and Chambers (33 05)



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0001		Underground Utility Vaults And Structures ^(33 05 63) See CSI section 33 05 61 00-0001 for manholes, 33 05 84 00-0087 for frames and covers.		
33 05 63 00-0002		Precast Concrete Underground Utility Vault ^(33 05 63 00-0001) Note: Sizes given are for inside dimensions.		
33 05 63 00-0003		6' High Precast Concrete Underground Utility Vault ^(33 05 63 00-0002)		
33 05 63 00-0004	EA	4' x 4' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	2,999.23	
33 05 63 00-0005	EA	4' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,909.48	
33 05 63 00-0006	EA	5' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,449.63	
33 05 63 00-0007	EA	5' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,447.25	
33 05 63 00-0008	EA	6' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,996.07	
33 05 63 00-0009	EA	6' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,081.84	
33 05 63 00-0010	EA	6' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,168.43	
33 05 63 00-0011	EA	6' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	10,356.94	
33 05 63 00-0012	EA	6' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	10,356.94	
33 05 63 00-0013	EA	6' x 16' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,041.07	
33 05 63 00-0014	EA	8' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,344.79	
33 05 63 00-0015	EA	8' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,606.91	
33 05 63 00-0016	EA	8' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,302.80	
33 05 63 00-0017	EA	8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,846.67	
33 05 63 00-0018		7' High Precast Concrete Underground Utility Vault ^(33 05 63 00-0002)		
33 05 63 00-0019	EA	4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,301.74	
33 05 63 00-0020	EA	4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,287.23	
33 05 63 00-0021	EA	4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,272.69	
33 05 63 00-0022	EA	5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,015.86	
33 05 63 00-0023	EA	5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,089.49	
33 05 63 00-0024	EA	6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,449.04	
33 05 63 00-0025	EA	6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,610.87	
33 05 63 00-0026	EA	6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,772.67	
33 05 63 00-0027	EA	6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,262.88	
33 05 63 00-0028	EA	6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,148.40	
33 05 63 00-0029	EA	8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,949.00	
33 05 63 00-0030	EA	8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,286.35	
33 05 63 00-0031	EA	8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,309.90	
33 05 63 00-0032	EA	8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,953.19	
33 05 63 00-0033	EA	10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,510.75	
33 05 63 00-0034		8' High Precast Concrete Underground Utility Vault ^(33 05 63 00-0002)		
33 05 63 00-0035	EA	4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,603.45	
33 05 63 00-0036	EA	4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,664.97	
33 05 63 00-0037	EA	5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,582.06	
33 05 63 00-0038	EA	5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,730.92	
33 05 63 00-0039	EA	6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,902.01	
33 05 63 00-0040	EA	6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,139.05	

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0041	EA	6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,376.11	
33 05 63 00-0042	EA	6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,168.80	
33 05 63 00-0043	EA	6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,255.80	
33 05 63 00-0044	EA	8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,552.42	
33 05 63 00-0045	EA	8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,965.79	
33 05 63 00-0046	EA	8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,316.13	
33 05 63 00-0047	EA	8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,060.57	
33 05 63 00-0048	EA	10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,517.55	
33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)				
33 05 63 00-0050	EA	6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,355.00	
33 05 63 00-0051	EA	6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,667.23	
33 05 63 00-0052	EA	10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,523.71	
33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)				
33 05 63 00-0054	EA	6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,807.96	
33 05 63 00-0055	EA	6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,196.27	
33 05 63 00-0056 Meter Pit (33 05 63 00-0001)				
33 05 63 00-0057 Precast Concrete Meter Pit (33 05 63 00-0056)				
33 05 63 00-0058	EA	4' x 4' x 4' Deep Precast Concrete Meter Pit.....	2,081.24	
33 05 63 00-0059	EA	4' x 4' x 6' Deep Precast Concrete Meter Pit.....	2,790.48	
33 05 63 00-0060	EA	4' x 4' x 8' Deep Precast Concrete Meter Pit.....	3,457.89	
33 05 63 00-0061	EA	4' x 4' x 10' Deep Precast Concrete Meter Pit.....	4,257.91	
33 05 63 00-0062	EA	4' x 4' x 15' Deep Precast Concrete Meter Pit.....	5,794.35	
33 05 63 00-0063	EA	6' x 6' x 4' Deep Precast Concrete Meter Pit.....	3,126.50	
33 05 63 00-0064	EA	6' x 6' x 6' Deep Precast Concrete Meter Pit.....	4,257.91	
33 05 63 00-0065	EA	6' x 6' x 8' Deep Precast Concrete Meter Pit.....	5,442.10	
33 05 63 00-0066	EA	6' x 6' x 10' Deep Precast Concrete Meter Pit.....	6,790.96	
33 05 63 00-0067	EA	6' x 6' x 15' Deep Precast Concrete Meter Pit.....	9,467.30	
33 05 63 00-0068 Handhole Or Pull Box Enclosures (33 05 63 00-0001)				
33 05 63 00-0069 Polymer Concrete Handhole Enclosures (33 05 63 00-0068)				
33 05 63 00-0070 Polymer Concrete Handhole Enclosures (33 05 63 00-0069)				
33 05 63 00-0071 Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)				
33 05 63 00-0072 Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)				
33 05 63 00-0073	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	195.30	18.34
33 05 63 00-0074	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	178.96	40.73
33 05 63 00-0075	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	272.78	61.10
33 05 63 00-0076	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	312.96	61.10
33 05 63 00-0077	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	299.68	61.10
33 05 63 00-0078	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	357.63	61.10
33 05 63 00-0079	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	348.89	61.10
33 05 63 00-0080	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	466.23	61.10
33 05 63 00-0081	EA	27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	659.98	81.47
33 05 63 00-0082	EA	27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	912.52	81.47
33 05 63 00-0083	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	614.96	112.01
33 05 63 00-0084	EA	24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	694.04	112.01



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0085	EA	24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,105.44	112.01
33 05 63 00-0086	EA	39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	657.76	122.19
33 05 63 00-0087	EA	39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	916.81	122.19
33 05 63 00-0088	EA	39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,128.64	122.19
33 05 63 00-0089	EA	39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,629.68	122.19
33 05 63 00-0090	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	953.49	187.08
33 05 63 00-0091	EA	30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,343.36	187.08
33 05 63 00-0092		Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0093	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	247.79	18.34
33 05 63 00-0094	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	335.30	61.10
33 05 63 00-0095	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	399.97	61.10
33 05 63 00-0096	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	371.02	61.10
33 05 63 00-0097	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	420.55	61.10
33 05 63 00-0098	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	433.54	61.10
33 05 63 00-0099	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	551.61	61.10
33 05 63 00-0100	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	747.90	112.01
33 05 63 00-0101	EA	24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	826.98	112.01
33 05 63 00-0102	EA	24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,238.39	112.01
33 05 63 00-0103	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,108.84	187.08
33 05 63 00-0104	EA	30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,501.68	187.08
33 05 63 00-0105		Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0106		Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0107	EA	5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	315.34	18.34
33 05 63 00-0108	EA	10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	267.83	18.34
33 05 63 00-0109	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	237.72	61.10
33 05 63 00-0110	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	265.75	61.10
33 05 63 00-0111	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	80.17	18.34
33 05 63 00-0112	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	119.89	18.34
33 05 63 00-0113	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	188.85	18.34
33 05 63 00-0114	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	197.20	18.34
33 05 63 00-0115	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	176.05	40.73
33 05 63 00-0116	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	188.85	40.73
33 05 63 00-0117	EA	8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	118.19	18.34
33 05 63 00-0118	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	133.82	18.34
33 05 63 00-0119	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	187.52	40.73
33 05 63 00-0120	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	209.04	40.73
33 05 63 00-0121	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	195.11	40.73
33 05 63 00-0122	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	239.02	61.10
33 05 63 00-0123	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	260.13	61.10
33 05 63 00-0124	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	275.83	61.10
33 05 63 00-0125	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	299.47	61.10
33 05 63 00-0126	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	346.62	61.10
33 05 63 00-0127	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	375.22	61.10

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0128	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	406.51	61.10
33 05 63 00-0129	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	426.19	61.10
33 05 63 00-0130	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	511.64	81.47
33 05 63 00-0131	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	529.28	112.01
33 05 63 00-0132	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	666.34	112.01
33 05 63 00-0133	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	792.90	112.01
33 05 63 00-0134	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	872.82	112.01
33 05 63 00-0135	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	952.32	112.01
33 05 63 00-0136	EA	36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,105.59	187.08
33 05 63 00-0137	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	825.41	187.08
33 05 63 00-0138	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	926.92	187.08
33 05 63 00-0139	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,121.02	187.08
33 05 63 00-0140	EA	30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,119.03	187.08
33 05 63 00-0141	EA	30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,191.49	187.08
33 05 63 00-0142	EA	30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,330.83	187.08
33 05 63 00-0143	EA	36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,235.52	200.44
33 05 63 00-0144	EA	36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,333.90	200.44
33 05 63 00-0145	EA	36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,459.50	200.44
33 05 63 00-0146	EA	36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,509.76	200.44
33 05 63 00-0147	EA	48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,527.22	200.44
33 05 63 00-0148	EA	48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,718.61	200.44
33 05 63 00-0149	EA	36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,346.94	200.44
33 05 63 00-0150	EA	36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,750.19	200.44
33 05 63 00-0151	EA	48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,965.22	213.80
33 05 63 00-0152	EA	48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,403.98	213.80
33 05 63 00-0153	EA	48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,057.86	213.80
33 05 63 00-0154		Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0155	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	310.50	61.10
33 05 63 00-0156	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	352.09	61.10
33 05 63 00-0157	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	130.01	18.34
33 05 63 00-0158	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	184.31	18.34
33 05 63 00-0159	EA	8" x 8", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	244.33	18.34
33 05 63 00-0160	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	252.69	18.34
33 05 63 00-0161	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	230.70	40.73
33 05 63 00-0162	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	239.61	40.73
33 05 63 00-0163	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	251.52	40.73
33 05 63 00-0164	EA	8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	172.54	18.34
33 05 63 00-0165	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	202.43	18.34
33 05 63 00-0166	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	251.23	40.73
33 05 63 00-0167	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	272.75	40.73
33 05 63 00-0168	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	259.50	40.73



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0169	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	310.10	61.10
33 05 63 00-0170	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	331.47	61.10
33 05 63 00-0171	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	360.65	61.10
33 05 63 00-0172	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	384.14	61.10
33 05 63 00-0173	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	431.15	61.10
33 05 63 00-0174	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	459.87	61.10
33 05 63 00-0175	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	491.03	61.10
33 05 63 00-0176	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	510.84	61.10
33 05 63 00-0177	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	628.59	81.47
33 05 63 00-0178	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	662.24	112.01
33 05 63 00-0179	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	799.13	112.01
33 05 63 00-0180	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	925.55	112.01
33 05 63 00-0181	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,005.35	112.01
33 05 63 00-0182	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,085.11	112.01
33 05 63 00-0183	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	979.30	187.08
33 05 63 00-0184	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,080.96	187.08
33 05 63 00-0185	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,274.91	187.08
33 05 63 00-0186		Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0186)		
33 05 63 00-0187	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	287.26	61.10
33 05 63 00-0188	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	330.00	61.10
33 05 63 00-0189	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	98.24	18.34
33 05 63 00-0190	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	156.41	18.34
33 05 63 00-0191	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	221.11	18.34
33 05 63 00-0192	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	229.62	18.34
33 05 63 00-0193	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	215.41	40.73
33 05 63 00-0194	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	240.19	40.73
33 05 63 00-0195	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	137.89	18.34
33 05 63 00-0196	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	227.59	40.73
33 05 63 00-0197	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	258.44	40.73
33 05 63 00-0198	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	235.60	40.73
33 05 63 00-0199	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	306.82	61.10
33 05 63 00-0200	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	349.01	61.10
33 05 63 00-0201	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	363.04	61.10
33 05 63 00-0202	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	396.45	61.10
33 05 63 00-0203	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	427.18	61.10
33 05 63 00-0204	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	456.19	61.10
33 05 63 00-0205	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	508.14	61.10
33 05 63 00-0206	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	515.39	61.10
33 05 63 00-0207	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	637.65	81.47
33 05 63 00-0208	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	673.99	112.01
33 05 63 00-0209	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	825.17	112.01
33 05 63 00-0210	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	974.69	112.01
33 05 63 00-0211	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,074.00	112.01
33 05 63 00-0212	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,173.31	112.01

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0213	EA	36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,290.62	187.08
33 05 63 00-0214	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,010.46	187.08
33 05 63 00-0215	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,119.88	187.08
33 05 63 00-0216	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,313.85	187.08
33 05 63 00-0217	EA	30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,399.41	187.08
33 05 63 00-0218	EA	30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,426.20	187.08
33 05 63 00-0219	EA	30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,686.11	187.08
33 05 63 00-0220	EA	36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,575.64	200.44
33 05 63 00-0221	EA	36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,626.47	200.44
33 05 63 00-0222	EA	36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,770.67	200.44
33 05 63 00-0223	EA	36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,879.81	200.44
33 05 63 00-0224	EA	36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,733.93	200.44
33 05 63 00-0225	EA	36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,124.25	200.44
33 05 63 00-0226	EA	48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,855.45	200.44
33 05 63 00-0227	EA	48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,030.58	200.44
33 05 63 00-0228	EA	48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,446.95	213.80
33 05 63 00-0229	EA	48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,885.88	213.80
33 05 63 00-0230	EA	48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,859.94	213.80
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)				
33 05 63 00-0232	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	360.03	61.10
33 05 63 00-0233	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	416.50	61.10
33 05 63 00-0234	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	147.68	18.34
33 05 63 00-0235	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	220.70	18.34
33 05 63 00-0236	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	276.48	18.34
33 05 63 00-0237	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	285.10	18.34
33 05 63 00-0238	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	279.12	40.73
33 05 63 00-0239	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	303.74	40.73
33 05 63 00-0240	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	208.54	18.34
33 05 63 00-0241	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	291.01	40.73
33 05 63 00-0242	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	321.87	40.73
33 05 63 00-0243	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	281.81	40.73
33 05 63 00-0244	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	378.19	61.10
33 05 63 00-0245	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	420.38	61.10
33 05 63 00-0246	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	447.70	61.10
33 05 63 00-0247	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	481.11	61.10
33 05 63 00-0248	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	511.83	61.10
33 05 63 00-0249	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	540.86	61.10
33 05 63 00-0250	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	592.82	61.10
33 05 63 00-0251	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	600.04	61.10
33 05 63 00-0252	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	754.44	81.47
33 05 63 00-0253	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	806.93	112.01



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0254	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	957.98	112.01
33 05 63 00-0255	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,107.33	112.01
33 05 63 00-0256	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,206.72	112.01
33 05 63 00-0257	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,306.11	112.01
33 05 63 00-0258	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,164.48	187.08
33 05 63 00-0259	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,274.06	187.08
33 05 63 00-0260	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,467.89	187.08
33 05 63 00-0261		Footed, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0262	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	305.01	61.10
33 05 63 00-0263	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	205.78	40.73
33 05 63 00-0264	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	229.57	40.73
33 05 63 00-0265	EA	13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	274.12	61.10
33 05 63 00-0266	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	213.57	40.73
33 05 63 00-0267	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	236.36	40.73
33 05 63 00-0268		Polymer Concrete Handhole Enclosure Extensions (33 05 63 00-0069)		
33 05 63 00-0269	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	229.83	61.10
33 05 63 00-0270	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	254.62	61.10
33 05 63 00-0271	EA	24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	297.03	81.47
33 05 63 00-0272	EA	24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	321.38	81.47
33 05 63 00-0273	EA	24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	387.32	112.01
33 05 63 00-0274	EA	36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	681.00	187.08
33 05 63 00-0275	EA	30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	654.38	187.08
33 05 63 00-0276	EA	30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	660.19	187.08
33 05 63 00-0277	EA	36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	867.79	200.44
33 05 63 00-0278	EA	48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,331.60	213.80
33 05 63 00-0279	EA	48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,718.23	213.80
33 05 63 00-0280	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	359.93	61.10
33 05 63 00-0281	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	375.08	61.10
33 05 63 00-0282	EA	24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	408.02	81.47
33 05 63 00-0283	EA	24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	432.62	81.47
33 05 63 00-0284	EA	24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	509.04	112.01
33 05 63 00-0285	EA	30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	826.40	187.08
33 05 63 00-0286	EA	13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	285.88	61.10
33 05 63 00-0287	EA	17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	315.76	61.10
33 05 63 00-0288	EA	24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	430.19	112.01
33 05 63 00-0289	EA	36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	839.29	200.44
33 05 63 00-0290		Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)		
33 05 63 00-0291		Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0292	EA	5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	76.12	8.15
33 05 63 00-0293	EA	10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	77.08	8.15
33 05 63 00-0294	EA	12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	71.62	8.15
33 05 63 00-0295	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	77.27	8.15
33 05 63 00-0296	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	77.99	8.15
33 05 63 00-0297	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	89.11	8.15
33 05 63 00-0298	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	102.86	8.15
33 05 63 00-0299	EA	30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	666.04	24.05
33 05 63 00-0300	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	584.03	24.05
33 05 63 00-0301	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	869.67	24.05

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0302 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	879.40	24.05
33 05 63 00-0303 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	994.98	24.05
33 05 63 00-0304 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,083.26	24.05
33 05 63 00-0305 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,735.04	24.05
33 05 63 00-0306 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	65.56	8.15
33 05 63 00-0307 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	92.85	8.15
33 05 63 00-0308 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	94.12	8.15
33 05 63 00-0309 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	117.77	8.15
33 05 63 00-0310 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	89.46	8.15
33 05 63 00-0311 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	138.87	8.15
33 05 63 00-0312 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	109.57	8.15
33 05 63 00-0313 EA 27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	222.23	8.15
33 05 63 00-0314 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	196.28	12.22
33 05 63 00-0315 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	245.04	12.22
33 05 63 00-0316 EA 39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	315.37	14.26
33 05 63 00-0317 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	442.73	18.71
33 05 63 00-0318 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	460.78	35.64
33 05 63 00-0319 EA 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	119.19	8.15
33 05 63 00-0320 EA 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	168.88	8.15
33 05 63 00-0321 EA 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	191.82	8.15
33 05 63 00-0322 EA 27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	317.31	8.15
33 05 63 00-0323 EA 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	263.31	12.22
33 05 63 00-0324 EA 39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	443.05	14.26
33 05 63 00-0325 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	581.04	18.71
33 05 63 00-0326 EA 30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	783.61	24.05
33 05 63 00-0327 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	697.68	24.05
33 05 63 00-0328 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	970.91	24.05
33 05 63 00-0329 EA 48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,261.49	24.05
33 05 63 00-0330 EA 36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,208.48	24.05
33 05 63 00-0331 EA 48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,829.67	24.05
33 05 63 00-0332 EA 48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,821.16	24.05
33 05 63 00-0333 EA 11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	156.01	8.15
33 05 63 00-0334 EA 11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	170.36	8.15
33 05 63 00-0335 EA 13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	223.53	8.15
33 05 63 00-0336 EA 17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	254.39	8.15
33 05 63 00-0337 EA 27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	437.89	8.15
33 05 63 00-0338 EA 24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	320.14	12.22
33 05 63 00-0339 EA 24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	436.31	12.22
33 05 63 00-0340 EA 39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	675.04	14.26
33 05 63 00-0341 EA 36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	773.58	18.71
33 05 63 00-0342 EA 30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	805.51	35.64
33 05 63 00-0343 EA 30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	931.53	24.05
33 05 63 00-0344 EA 36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,296.84	24.05
33 05 63 00-0345 EA 48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,810.66	24.05
33 05 63 00-0346 EA 36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,616.75	24.05
33 05 63 00-0347 EA 48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,673.24	24.05
33 05 63 00-0348 EA 48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	4,121.19	24.05

33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)

33 05 63 00-0350 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	87.05	8.15
33 05 63 00-0351 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	91.86	8.15
33 05 63 00-0352 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	93.43	8.15
33 05 63 00-0353 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	94.02	8.15
33 05 63 00-0354 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	108.11	8.15
33 05 63 00-0355 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	69.99	8.15
33 05 63 00-0356 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	97.39	8.15
33 05 63 00-0357 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	98.27	8.15
33 05 63 00-0358 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	122.45	8.15
33 05 63 00-0359 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	94.56	8.15
33 05 63 00-0360 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	114.95	8.15
33 05 63 00-0361 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	143.82	8.15
33 05 63 00-0362 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	199.60	12.22
33 05 63 00-0363 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	250.15	12.22
33 05 63 00-0364 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	466.03	35.64
33 05 63 00-0365 EA 6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	58.72	8.15
33 05 63 00-0366 EA 8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	90.35	8.15
33 05 63 00-0367 EA 8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	100.22	8.15
33 05 63 00-0368 EA 12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	95.84	8.15
33 05 63 00-0369 EA 10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	79.41	8.15
33 05 63 00-0370 EA 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	123.72	8.15
33 05 63 00-0371 EA 11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	133.96	8.15
33 05 63 00-0372 EA 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	173.70	8.15
33 05 63 00-0373 EA 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	197.06	8.15
33 05 63 00-0374 EA 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	268.00	12.22
33 05 63 00-0375 EA 24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	333.66	12.22
33 05 63 00-0376 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	611.13	35.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)		
33 05 63 00-0378 EA 6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	47.84	8.15
33 05 63 00-0379 EA 7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	56.35	8.15
33 05 63 00-0380 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	67.80	8.15
33 05 63 00-0381 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	72.90	8.15
33 05 63 00-0382 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	72.76	8.15
33 05 63 00-0383 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	85.81	8.15
33 05 63 00-0384 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	98.64	8.15
33 05 63 00-0385 EA 24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	236.69	12.22
33 05 63 00-0386 EA 30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	441.68	35.64
33 05 63 00-0387 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	658.87	24.05
33 05 63 00-0388 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	575.94	24.05
33 05 63 00-0389 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	856.35	24.05
33 05 63 00-0390 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	826.70	24.05
33 05 63 00-0391 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	987.25	24.05
33 05 63 00-0392 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,054.70	24.05
33 05 63 00-0393 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,680.16	24.05
33 05 63 00-0394 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	63.14	8.15
33 05 63 00-0395 EA 10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	61.72	8.15
33 05 63 00-0396 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	89.79	8.15
33 05 63 00-0397 EA 11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	98.38	8.15
33 05 63 00-0398 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	110.98	8.15
33 05 63 00-0399 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	85.07	8.15
33 05 63 00-0400 EA 18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	94.56	8.15
33 05 63 00-0401 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	132.92	8.15
33 05 63 00-0402 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	192.43	12.22
33 05 63 00-0403 EA 20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	239.33	12.22
33 05 63 00-0404 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	236.55	12.22
33 05 63 00-0405 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	425.31	18.71
33 05 63 00-0406 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	441.68	21.38
33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0408 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	685.59	24.05
33 05 63 00-0409 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	988.24	24.05
33 05 63 00-0410 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	575.73	35.64
33 05 63 00-0411 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	760.48	35.64
33 05 63 00-0412 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	812.67	24.05
33 05 63 00-0413 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,103.95	24.05
33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0415 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	268.08	12.22
33 05 63 00-0416 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	497.24	18.71
33 05 63 00-0417 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	520.68	35.64
33 05 63 00-0418 EA 6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	45.47	8.15
33 05 63 00-0419 EA 8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	73.35	8.15
33 05 63 00-0420 EA 12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	80.40	8.15
33 05 63 00-0421 EA 8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	85.07	8.15
33 05 63 00-0422 EA 10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	75.02	8.15
33 05 63 00-0423 EA 11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	129.81	8.15
33 05 63 00-0424 EA 24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	357.66	12.22
33 05 63 00-0425 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	658.78	18.71
33 05 63 00-0426 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	691.13	35.64
33 05 63 00-0427 Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)		
Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428 EA 12" x 12" x 12" Precast Concrete Handholes With Steel Cover.....	670.57	189.97
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	18.00	
33 05 63 00-0429 EA 12" x 24" x 21" Precast Concrete Handholes With Steel Cover.....	1,124.25	284.96
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	91.32	
33 05 63 00-0430 EA 18" x 30" x 18" Precast Concrete Handholes With Steel Cover.....	1,365.78	379.94
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	156.03	
33 05 63 00-0431 EA 24" x 24" x 24" Precast Concrete Handholes With Steel Cover.....	1,417.49	379.94
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	194.91	
33 05 63 00-0432 EA 24" x 24" x 30" Precast Concrete Handholes With Steel Cover.....	1,668.85	474.93
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	232.75	
33 05 63 00-0433 EA 30" x 36" x 30" Precast Concrete Handholes With Steel Cover.....	1,754.88	474.93
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	261.13	
33 05 63 00-0434 EA 36" x 36" x 48" Precast Concrete Handholes With Steel Cover.....	2,029.31	569.92
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	303.35	

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	2,330.94 438.98	664.90
33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	2,284.30 492.67	569.92
33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	2,306.23 322.47	569.92
33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	530.19 15.00	189.97
33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	623.87 15.00	213.72
33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	763.73 15.00	237.46

33 05 84 Accessories for Utility Structures (33 05)

See CSI section 22 13 19 26-0043 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 05 84 00-0001 Manhole Accessories (33 05 84)**33 05 84 00-0002 Precast Concrete Manhole Tops (33 05 84 00-0001)****33 05 84 00-0003 Precast Concrete Manhole Slab Tops (33 05 84 00-0002)**

33 05 84 00-0004 EA 3' Diameter x 8" Thick Precast Manhole Top Slab	438.82	61.51
33 05 84 00-0005 EA 3'-6" Diameter x 8" Thick Precast Manhole Top Slab	519.07	63.96
33 05 84 00-0006 EA 4' Diameter x 8" Thick Precast Manhole Top Slab	609.15	66.43
33 05 84 00-0007 EA 5' Diameter x 8" Thick Precast Manhole Top Slab	819.72	71.34
33 05 84 00-0008 EA 6' Diameter x 8" Thick Precast Manhole Top Slab	979.42	76.27

33 05 84 00-0009 Precast Concrete Manhole Cone Tops (33 05 84 00-0002)

33 05 84 00-0010 EA 3' Diameter x 8" Thick Precast Manhole Top Cone	693.14	76.88
33 05 84 00-0011 EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone	769.70	79.96
33 05 84 00-0012 EA 4' Diameter x 8" Thick Precast Manhole Top Cone	846.29	83.03
33 05 84 00-0013 EA 5' Diameter x 8" Thick Precast Manhole Top Cone	995.31	88.16
33 05 84 00-0014 EA 6' Diameter x 8" Thick Precast Manhole Top Cone	1,148.46	94.31

33 05 84 00-0015 Pipe To Manhole Connector (33 05 84 00-0001)**33 05 84 00-0016 Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors (33 05 84 00-0015)**

33 05 84 00-0017 EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	70.09	
33 05 84 00-0018 EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	103.79	
33 05 84 00-0019 EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	116.98	
33 05 84 00-0020 EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	177.88	
33 05 84 00-0021 EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	248.96	
33 05 84 00-0022 EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	329.18	
33 05 84 00-0023 EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	595.06	
33 05 84 00-0024 EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	826.92	
33 05 84 00-0025 EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,306.88	
33 05 84 00-0026 EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,538.04	

33 05 84 00-0027 Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout

(33 05 84 00-0015)
Note: Fernco CMA.

33 05 84 00-0028 EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	67.48	
33 05 84 00-0029 EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	93.54	
33 05 84 00-0030 EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	118.14	
33 05 84 00-0031 EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	142.62	
33 05 84 00-0032 EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	165.50	

33 05 84 00-0033 Brick And Grout Pipe To Manhole Connector (33 05 84 00-0015)

33 05 84 00-0034 EA Seal Gap Between Pipe And Structure With Brick And Grout	171.76	

33 05 84 00-0035 Inverts For Manholes (33 05 84 00-0001)

33 05 84 00-0036 EA Single Channel Concrete Invert For Manholes	363.53	
33 05 84 00-0037 EA Double Channel Concrete Invert For Manholes	523.80	
33 05 84 00-0038 EA Triple Channel Concrete Invert For Manholes	705.63	
33 05 84 00-0039 EA Quad Channel Concrete Invert For Manholes	887.42	
33 05 84 00-0040 EA Single Channel Brick Invert For Manholes	550.45	
33 05 84 00-0041 EA Double Channel Brick Invert For Manholes	823.82	
33 05 84 00-0042 EA Triple Channel Brick Invert For Manholes	1,101.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0043 EA Quad Channel Brick Invert For Manholes.....	1,376.98	
33 05 84 00-0044 Steps For Cast-In-Place Manholes (33 05 84 00-0001) See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 84 00-0045 EA Cast Iron Manhole Step For New Manholes.....	56.11	
33 05 84 00-0046 EA Galvanized Steel Manhole Step For New Manholes.....	43.06	
33 05 84 00-0047 EA Aluminum Manhole Step For New Manholes.....	55.33	
33 05 84 00-0048 EA Polypropylene Manhole Step For New Manholes.....	34.21	
33 05 84 00-0049 Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0050 Polyurethane Protective Coating For New Manholes (33 05 84 00-0049)		
33 05 84 00-0051 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior	144.19	
For 80 Mil Material, Add	19.51	
For 100 Mil Material, Add	39.02	
For 125 Mil Material, Add	61.33	
For 150 Mil Material, Add	83.65	
For 200 Mil Material, Add	122.75	
For 2 To 5 Manholes, Deduct	-9.97	
For 6 To 10 Manholes, Deduct	-16.34	
For >10 Manholes, Deduct	-32.68	
33 05 84 00-0052 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior	174.38	
For 80 Mil Material, Add	23.23	
For 100 Mil Material, Add	46.46	
For 125 Mil Material, Add	72.97	
For 150 Mil Material, Add	99.47	
For 200 Mil Material, Add	145.73	
For 2 To 5 Manholes, Deduct	-12.10	
For 6 To 10 Manholes, Deduct	-19.83	
For >10 Manholes, Deduct	-39.67	
33 05 84 00-0053 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior	192.23	
For 80 Mil Material, Add	26.01	
For 100 Mil Material, Add	52.02	
For 125 Mil Material, Add	81.77	
For 150 Mil Material, Add	111.51	
For 200 Mil Material, Add	163.64	
For 2 To 5 Manholes, Deduct	-13.30	
For 6 To 10 Manholes, Deduct	-21.79	
For >10 Manholes, Deduct	-43.57	
33 05 84 00-0054 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior	240.33	
For 80 Mil Material, Add	32.52	
For 100 Mil Material, Add	65.05	
For 125 Mil Material, Add	102.25	
For 150 Mil Material, Add	139.46	
For 200 Mil Material, Add	204.65	
For 2 To 5 Manholes, Deduct	-16.62	
For 6 To 10 Manholes, Deduct	-27.23	
For >10 Manholes, Deduct	-54.47	
33 05 84 00-0055 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior	278.57	
For 80 Mil Material, Add	38.29	
For 100 Mil Material, Add	76.58	
For 125 Mil Material, Add	120.49	
For 150 Mil Material, Add	164.39	
For 200 Mil Material, Add	241.64	
For 2 To 5 Manholes, Deduct	-19.21	
For 6 To 10 Manholes, Deduct	-31.45	
For >10 Manholes, Deduct	-62.91	
33 05 84 00-0056 Polyvinyl Chloride (PVC) Liner (33 05 84 00-0049) Note: For new manholes and shop applied.		
33 05 84 00-0057 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	158.24	
33 05 84 00-0058 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	193.97	
33 05 84 00-0059 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	236.70	
33 05 84 00-0060 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	297.25	
33 05 84 00-0061 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	357.80	
33 05 84 00-0062 SF Polyvinyl Chloride (PVC) Liner At Structures.....	35.18	
33 05 84 00-0063 Concrete Grade Extensions/Grade Rings (33 05 84 00-0001)		
33 05 84 00-0064 18" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0063)		
33 05 84 00-0065 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings.....	66.23	
33 05 84 00-0066 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	72.10	
33 05 84 00-0067 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	77.96	
33 05 84 00-0068 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	83.83	
33 05 84 00-0069 24" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0063)		
33 05 84 00-0070 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	74.33	
33 05 84 00-0071 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	81.00	
33 05 84 00-0072 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	87.67	

33 Utilities**33 05 Common Work Results For Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0073	EA	10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	94.33	
33 05 84 00-0074		30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0063)		
33 05 84 00-0075	EA	4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	82.27	
33 05 84 00-0076	EA	6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	89.70	
33 05 84 00-0077	EA	8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	97.13	
33 05 84 00-0078	EA	10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	104.57	
33 05 84 00-0079		Bentonite Collar (33 05 84 00-0001)		
33 05 84 00-0080		Bentonite Collar At Manhole Connections (33 05 84 00-0079)		
33 05 84 00-0081	EA	Up To 12" Pipe, Bentonite Collar At Manhole Connection	106.98	
33 05 84 00-0082	EA	>12" To 21", Bentonite Collar At Manhole Connection.....	169.67	
33 05 84 00-0083	EA	>21" To 30" Pipe, Bentonite Collar At Manhole Connection	270.91	
33 05 84 00-0084	EA	>30" To 36" Pipe, Bentonite Collar At Manhole Connection	635.59	
33 05 84 00-0085	EA	>36" To 48" Pipe, Bentonite Collar At Manhole Connection	977.67	
33 05 84 00-0086	EA	>48" To 60" Pipe, Bentonite Collar At Manhole Connection	1,771.26	
33 05 84 00-0087		Manhole Covers And Frames (33 05 84)		
		Note: Includes moisture-tight masonry joints and waterproof grouting.		
33 05 84 00-0088		Regular Manhole Covers And Frames, City Type (33 05 84 00-0087)		
33 05 84 00-0089	EA	18" Square, Gray Iron, Manhole Cover With Frame	810.72	70.52
		For Ductile Iron Castings, Add	418.25	
		For Heavy Duty, Add	294.41	
33 05 84 00-0090	EA	18" Diameter, Gray Iron, Manhole Cover With Frame.....	503.25	70.52
		For Ductile Iron Castings, Add	203.02	
		For Heavy Duty, Add	186.80	
33 05 84 00-0091	EA	24" Diameter, Gray Iron, Manhole Cover With Frame.....	581.36	82.00
		For Ductile Iron Castings, Add	234.73	
		For Heavy Duty, Add	215.78	
33 05 84 00-0092	EA	24" Square, Gray Iron, Manhole Cover With Frame	856.00	91.03
		For Ductile Iron Castings, Add	407.85	
		For Heavy Duty, Add	313.27	
33 05 84 00-0093	EA	26" Diameter, Gray Iron, Manhole Cover With Frame.....	758.63	98.41
		For Ductile Iron Castings, Add	323.55	
		For Heavy Duty, Add	280.34	
33 05 84 00-0094	EA	30" Diameter, Gray Iron, Manhole Cover With Frame.....	790.57	102.51
		For Ductile Iron Castings, Add	338.14	
		For Heavy Duty, Add	292.08	
33 05 84 00-0095	EA	24" Diameter REXUF D400, Ductile Iron Manhole Cover And Frame, County Standard.....	804.23	91.03
		For Ductile Iron Castings, Add	371.61	
		For Heavy Duty, Add	295.15	
33 05 84 00-0096		Watertight Type Manhole Covers And Frames (33 05 84 00-0087)		
33 05 84 00-0097	EA	20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	773.38	58.23
		For Ductile Iron Castings, Add	379.13	
33 05 84 00-0098	EA	22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	794.25	58.23
		For Ductile Iron Castings, Add	380.38	
33 05 84 00-0099	EA	24" Diameter, Gray Iron, Watertight Manhole Cover With Frame	820.34	68.07
		For Ductile Iron Castings, Add	382.89	
33 05 84 00-0100	EA	26" Diameter, Gray Iron, Watertight Manhole Cover With Frame	959.71	76.27
		For Ductile Iron Castings, Add	464.31	
33 05 84 00-0101	EA	30" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,090.56	77.91
		For Ductile Iron Castings, Add	548.13	
33 05 84 00-0102	EA	32" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,140.67	79.55
		For Ductile Iron Castings, Add	580.39	
33 05 84 00-0103	EA	36" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,185.92	82.00
		For Ductile Iron Castings, Add	609.13	
33 05 84 00-0104		Aluminum Manhole Covers And Frames (33 05 84 00-0087)		
33 05 84 00-0105	EA	12" Square Aluminum Manhole Cover With Frame	633.33	23.89
33 05 84 00-0106	EA	18" Square Aluminum Manhole Cover With Frame	1,141.19	26.45
33 05 84 00-0107	EA	24" Square Aluminum Manhole Cover With Frame	1,628.81	30.71
33 05 84 00-0108		Remove And Reinstall Manhole Cover And Frame (33 05 84 00-0087)		
		Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 84 00-0109	EA	Removal And Reinstallation Of Manhole Cover And Frame	328.80	
33 05 84 00-0110		Rainguard Inflow Protectors (33 05 84 00-0087)		
33 05 84 00-0111	EA	18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	95.55	17.32
33 05 84 00-0112	EA	22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	108.43	17.32
33 05 84 00-0113	EA	24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	129.70	20.79
33 05 84 00-0114	EA	26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	137.84	20.79
33 05 84 00-0115	EA	30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	169.83	24.24



		Utilities	33	CS
		Common Work Results For Utilities	33 05	
		Accessories for Utility Structures	33 05 84	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0116	EA	32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	179.83	24.24
33 05 84 00-0117		Adjust Frame And Cover To Grade (Monterey County) (33 05 84 00-0087)		
33 05 84 00-0118	EA	Adjust Frame And Cover To Grade (Monterey County)	535.83	
33 05 84 00-0119		Waste Water Collection System Taps (33 05 84)		
		Note: For tapping existing structures only. Includes grout.		
33 05 84 00-0120		Brick Manhole Taps (33 05 84 00-0119)		
33 05 84 00-0121	EA	4" Tap In 6" Brick Manhole	417.78	
33 05 84 00-0122	EA	6" Tap In 6" Brick Manhole	465.79	
33 05 84 00-0123	EA	8" Tap In 6" Brick Manhole	512.92	
33 05 84 00-0124	EA	10" Tap In 6" Brick Manhole	559.97	
33 05 84 00-0125	EA	12" Tap In 6" Brick Manhole	619.52	
33 05 84 00-0126	EA	15" Tap In 6" Brick Manhole	666.47	
33 05 84 00-0127		Precast Concrete Manhole Tap (33 05 84 00-0119)		
33 05 84 00-0128	EA	4" Tap In Existing Precast Concrete Manhole	593.13	
33 05 84 00-0129	EA	6" Tap In Existing Precast Concrete Manhole	665.12	
33 05 84 00-0130	EA	8" Tap In Existing Precast Concrete Manhole	742.69	
33 05 84 00-0131	EA	10" Tap In Existing Precast Concrete Manhole	813.27	
33 05 84 00-0132	EA	12" Tap In Existing Precast Concrete Manhole	883.70	
33 05 84 00-0133	EA	15" Tap In Existing Precast Concrete Manhole	955.83	
33 05 84 00-0134	EA	18" Tap In Existing Precast Concrete Manhole	1,096.07	
33 05 84 00-0135	EA	24" Tap In Existing Precast Concrete Manhole	1,406.25	
33 05 97		Identification and Signage for Utilities (33 05)		
33 05 97 16		Markers for Utility Identification (33 05 97)		
33 05 97 16-0001		Reflective Sheeting Delineators (33 05 97 16)		
33 05 97 16-0002	EA	Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square	35.41	
33 05 97 16-0003	EA	Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square	37.42	
33 05 97 16-0004	EA	Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square	41.44	
33 05 97 16-0005	EA	Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square	43.44	
33 05 97 16-0006	EA	Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square	45.45	
33 05 97 16-0007	EA	Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square	39.93	
33 05 97 16-0008	EA	Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	35.91	
33 05 97 16-0009	EA	Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	37.92	
33 05 97 16-0010	EA	Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	37.92	
33 05 97 16-0011	EA	Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	39.93	
33 05 97 16-0012	EA	Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	41.94	
33 05 97 16-0013	EA	Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	43.95	
33 05 97 16-0014	EA	Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	62.02	
33 05 97 16-0015	EA	Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	43.44	
33 05 97 16-0016	EA	Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	64.53	
33 05 97 16-0017	EA	Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	62.02	
33 05 97 16-0018	EA	Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	64.03	
33 05 97 16-0019	EA	Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	64.53	
33 05 97 16-0020	EA	Relocate Delineator	46.54	
33 05 97 16-0021		Reference Markers (33 05 97 16)		
33 05 97 16-0022	EA	Reference Marker, 4' Mounting Height	54.33	
33 05 97 16-0023	EA	Reference Marker, 7' Mounting Height	64.23	
33 05 97 16-0024	EA	Reference Marker, Band Or Bracket Mounted	61.34	
33 05 97 16-0025	EA	Reference Marker, Furnish Panel Only	42.46	
33 05 97 16-0026	EA	Relocate Reference Marker	46.54	
33 05 97 16-0027		Object Markers (33 05 97 16)		
33 05 97 16-0028	EA	Object Marker, Type L-1	60.52	
33 05 97 16-0029	EA	Object Marker, Type L-2	56.40	
33 05 97 16-0030	EA	Object Marker, Type K-1	63.82	
33 05 97 16-0031	EA	Object Marker, Type K-2	59.70	
33 05 97 16-0032	EA	Object Marker, Type Q	43.21	

33 10 Water Utilities (33)

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
33 11 Groundwater Sources (33 10)**33 11 13 Potable Water Supply Wells** (33 11)

33 11 13 00-0001 Drill And Test Water Well (33 11 13)

33 11 13 00-0002 Drill Hole (33 11 13 00-0001)

Note: Excludes loading and hauling of spoils.

33 11 13 00-0003 Mobilization And Demobilization (33 11 13 00-0002)

33 11 13 00-0004	EA	Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	772.96
33 11 13 00-0005	EA	>12" To 24" Diameter, Well Drilling Mobilization And Demobilization.....	949.64
33 11 13 00-0006	EA	>24" To 36" Diameter, Well Drilling Mobilization And Demobilization.....	1,424.44

33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. (33 11 13 00-0002)

Note: Excludes well casing, gravel or materials.

33 11 13 00-0008	LF	6" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	18.40
		For >100 To 250, Add	0.46
		For >250 To 400, Add	0.92
		For >400 To 600, Add	1.38
		For >600 To 750, Add	1.84
		For >750, Add	2.30
33 11 13 00-0009	LF	8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	21.84
		For >100 To 250, Add	0.55
		For >250 To 400, Add	1.09
		For >400 To 600, Add	1.64
		For >600 To 750, Add	2.18
		For >750, Add	2.73
33 11 13 00-0010	LF	10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	29.21
		For >100 To 250, Add	0.73
		For >250 To 400, Add	1.46
		For >400 To 600, Add	2.19
		For >600 To 750, Add	2.92
		For >750, Add	3.65
33 11 13 00-0011	LF	12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	45.70
		For >100 To 250, Add	1.14
		For >250 To 400, Add	2.29
		For >400 To 600, Add	3.43
		For >600 To 750, Add	4.57
		For >750, Add	5.71
33 11 13 00-0012	LF	14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	65.77
		For >100 To 250, Add	1.64
		For >250 To 400, Add	3.29
		For >400 To 600, Add	4.93
		For >600 To 750, Add	6.58
		For >750, Add	8.22
33 11 13 00-0013	LF	16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	85.94
		For >100 To 250, Add	2.15
		For >250 To 400, Add	4.30
		For >400 To 600, Add	6.45
		For >600 To 750, Add	8.59
		For >750, Add	10.74
33 11 13 00-0014	LF	18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	102.09
		For >100 To 250, Add	2.55
		For >250 To 400, Add	5.10
		For >400 To 600, Add	7.66
		For >600 To 750, Add	10.21
		For >750, Add	12.76
33 11 13 00-0015	LF	20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	118.70
		For >100 To 250, Add	2.97
		For >250 To 400, Add	5.94
		For >400 To 600, Add	8.90
		For >600 To 750, Add	11.87
		For >750, Add	14.84
33 11 13 00-0016	LF	22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	139.48
		For >100 To 250, Add	3.49
		For >250 To 400, Add	6.97
		For >400 To 600, Add	10.46
		For >600 To 750, Add	13.95
		For >750, Add	17.44
33 11 13 00-0017	LF	24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	164.41
		For >100 To 250, Add	4.11
		For >250 To 400, Add	8.22
		For >400 To 600, Add	12.33
		For >600 To 750, Add	16.44
		For >750, Add	20.55
33 11 13 00-0018	LF	26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	177.70
		For >100 To 250, Add	4.44
		For >250 To 400, Add	8.89
		For >400 To 600, Add	13.33
		For >600 To 750, Add	17.77
		For >750, Add	22.21



		Utilities	33	33
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0019	LF		28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	195.50	
			For >100 To 250, Add	4.89	
			For >250 To 400, Add	9.78	
			For >400 To 600, Add	14.66	
			For >600 To 750, Add	19.55	
			For >750, Add	24.44	
33 11 13 00-0020	LF		30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	214.14	
			For >100 To 250, Add	5.35	
			For >250 To 400, Add	10.71	
			For >400 To 600, Add	16.06	
			For >600 To 750, Add	21.41	
			For >750, Add	26.77	
33 11 13 00-0021	LF		36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	266.37	
			For >100 To 250, Add	6.66	
			For >250 To 400, Add	13.32	
			For >400 To 600, Add	19.98	
			For >600 To 750, Add	26.64	
			For >750, Add	33.30	
33 11 13 00-0022 Drill Hole In Sedimentary Rock (33 11 13 00-0002)					
33 11 13 00-0023	LF		6" Water Well Hole Drilled In Sedimentary Rock	37.51	
			For >100 To 250, Add	0.94	
			For >250 To 400, Add	1.88	
			For >400 To 600, Add	2.81	
			For >600 To 750, Add	3.75	
			For >750, Add	4.69	
33 11 13 00-0024	LF		8" Water Well Hole Drilled In Sedimentary Rock	43.68	
			For >100 To 250, Add	1.09	
			For >250 To 400, Add	2.18	
			For >400 To 600, Add	3.28	
			For >600 To 750, Add	4.37	
			For >750, Add	5.46	
33 11 13 00-0025	LF		10" Water Well Hole Drilled In Sedimentary Rock	69.94	
			For >100 To 250, Add	1.75	
			For >250 To 400, Add	3.50	
			For >400 To 600, Add	5.25	
			For >600 To 750, Add	6.99	
			For >750, Add	8.74	
33 11 13 00-0026	LF		12" Water Well Hole Drilled In Sedimentary Rock	91.45	
			For >100 To 250, Add	2.29	
			For >250 To 400, Add	4.57	
			For >400 To 600, Add	6.86	
			For >600 To 750, Add	9.15	
			For >750, Add	11.43	
33 11 13 00-0027	LF		14" Water Well Hole Drilled In Sedimentary Rock	131.62	
			For >100 To 250, Add	3.29	
			For >250 To 400, Add	6.58	
			For >400 To 600, Add	9.87	
			For >600 To 750, Add	13.16	
			For >750, Add	16.45	
33 11 13 00-0028	LF		16" Water Well Hole Drilled In Sedimentary Rock	171.79	
			For >100 To 250, Add	4.29	
			For >250 To 400, Add	8.59	
			For >400 To 600, Add	12.88	
			For >600 To 750, Add	17.18	
			For >750, Add	21.47	
33 11 13 00-0029	LF		18" Water Well Hole Drilled In Sedimentary Rock	204.26	
			For >100 To 250, Add	5.11	
			For >250 To 400, Add	10.21	
			For >400 To 600, Add	15.32	
			For >600 To 750, Add	20.43	
			For >750, Add	25.53	
33 11 13 00-0030	LF		20" Water Well Hole Drilled In Sedimentary Rock	237.02	
			For >100 To 250, Add	5.93	
			For >250 To 400, Add	11.85	
			For >400 To 600, Add	17.78	
			For >600 To 750, Add	23.70	
			For >750, Add	29.63	
33 11 13 00-0031	LF		22" Water Well Hole Drilled In Sedimentary Rock	279.19	
			For >100 To 250, Add	6.98	
			For >250 To 400, Add	13.96	
			For >400 To 600, Add	20.94	
			For >600 To 750, Add	27.92	
			For >750, Add	34.90	
33 11 13 00-0032	LF		24" Water Well Hole Drilled In Sedimentary Rock	322.49	
			For >100 To 250, Add	8.06	
			For >250 To 400, Add	16.12	
			For >400 To 600, Add	24.19	
			For >600 To 750, Add	32.25	
			For >750, Add	40.31	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0033 LF 26" Water Well Hole Drilled In Sedimentary Rock	355.40	
For >100 To 250, Add	8.89	
For >250 To 400, Add	17.77	
For >400 To 600, Add	26.66	
For >600 To 750, Add	35.54	
For >750, Add	44.43	
33 11 13 00-0034 LF 28" Water Well Hole Drilled In Sedimentary Rock	391.01	
For >100 To 250, Add	9.78	
For >250 To 400, Add	19.55	
For >400 To 600, Add	29.33	
For >600 To 750, Add	39.10	
For >750, Add	48.88	
33 11 13 00-0035 LF 30" Water Well Hole Drilled In Sedimentary Rock	428.29	
For >100 To 250, Add	10.71	
For >250 To 400, Add	21.41	
For >400 To 600, Add	32.12	
For >600 To 750, Add	42.83	
For >750, Add	53.54	
33 11 13 00-0036 LF 36" Water Well Hole Drilled In Sedimentary Rock	532.74	
For >100 To 250, Add	13.32	
For >250 To 400, Add	26.64	
For >400 To 600, Add	39.96	
For >600 To 750, Add	53.27	
For >750, Add	66.59	
33 11 13 00-0037 Drill Hole In Crystalline Rock (33 11 13 00-0002)		
33 11 13 00-0038 LF 6" Water Well Hole Drilled In Crystalline Rock	77.16	
For >100 To 250, Add	1.93	
For >250 To 400, Add	3.86	
For >400 To 600, Add	5.79	
For >600 To 750, Add	7.72	
For >750, Add	9.65	
33 11 13 00-0039 LF 8" Water Well Hole Drilled In Crystalline Rock	89.03	
For >100 To 250, Add	2.23	
For >250 To 400, Add	4.45	
For >400 To 600, Add	6.68	
For >600 To 750, Add	8.90	
For >750, Add	11.13	
33 11 13 00-0040 LF 10" Water Well Hole Drilled In Crystalline Rock	102.09	
For >100 To 250, Add	2.55	
For >250 To 400, Add	5.10	
For >400 To 600, Add	7.66	
For >600 To 750, Add	10.21	
For >750, Add	12.76	
33 11 13 00-0041 LF 12" Water Well Hole Drilled In Crystalline Rock	129.38	
For >100 To 250, Add	3.23	
For >250 To 400, Add	6.47	
For >400 To 600, Add	9.70	
For >600 To 750, Add	12.94	
For >750, Add	16.17	
33 11 13 00-0042 LF 14" Water Well Hole Drilled In Crystalline Rock	167.37	
For >100 To 250, Add	4.18	
For >250 To 400, Add	8.37	
For >400 To 600, Add	12.55	
For >600 To 750, Add	16.74	
For >750, Add	20.92	
33 11 13 00-0043 LF 16" Water Well Hole Drilled In Crystalline Rock	243.34	
For >100 To 250, Add	6.08	
For >250 To 400, Add	12.17	
For >400 To 600, Add	18.25	
For >600 To 750, Add	24.33	
For >750, Add	30.42	
33 11 13 00-0044 LF 18" Water Well Hole Drilled In Crystalline Rock	289.64	
For >100 To 250, Add	7.24	
For >250 To 400, Add	14.48	
For >400 To 600, Add	21.72	
For >600 To 750, Add	28.96	
For >750, Add	36.21	
33 11 13 00-0045 LF 20" Water Well Hole Drilled In Crystalline Rock	335.93	
For >100 To 250, Add	8.40	
For >250 To 400, Add	16.80	
For >400 To 600, Add	25.19	
For >600 To 750, Add	33.59	
For >750, Add	41.99	
33 11 13 00-0046 LF 22" Water Well Hole Drilled In Crystalline Rock	395.28	
For >100 To 250, Add	9.88	
For >250 To 400, Add	19.76	
For >400 To 600, Add	29.65	
For >600 To 750, Add	39.53	
For >750, Add	49.41	



		Utilities	33	33
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 11 13 00-0047	LF 24" Water Well Hole Drilled In Crystalline Rock.....	457.01		
	For >100 To 250, Add	11.43		
	For >250 To 400, Add	22.85		
	For >400 To 600, Add	34.28		
	For >600 To 750, Add	45.70		
	For >750, Add	57.13		
33 11 13 00-0048	Furnish And Install Casing (33 11 13 00-0001)			
	Note: Excludes drilling of hole.			
33 11 13 00-0049	Steel Well Casing (33 11 13 00-0048)			
33 11 13 00-0050	LF 6" Diameter, Steel Well Casing, Flush.....	26.21		
	For >100 To 250, Deduct	-0.83		
	For >250 To 400, Deduct	-1.48		
	For >400 To 600, Deduct	-2.22		
	For >600 To 750, Deduct	-2.96		
	For >750, Deduct	-3.92		
33 11 13 00-0051	LF 8" Diameter, Steel Well Casing, Flush.....	32.60		
	For >100 To 250, Deduct	-1.03		
	For >250 To 400, Deduct	-1.84		
	For >400 To 600, Deduct	-2.76		
	For >600 To 750, Deduct	-3.68		
	For >750, Deduct	-4.88		
33 11 13 00-0052	LF 10" Diameter, Steel Well Casing, Flush.....	47.60		
	For >100 To 250, Deduct	-1.44		
	For >250 To 400, Deduct	-2.63		
	For >400 To 600, Deduct	-3.95		
	For >600 To 750, Deduct	-5.27		
	For >750, Deduct	-6.92		
33 11 13 00-0053	LF 12" Diameter, Steel Well Casing, Flush.....	78.53		
	For >100 To 250, Deduct	-2.27		
	For >250 To 400, Deduct	-4.23		
	For >400 To 600, Deduct	-6.35		
	For >600 To 750, Deduct	-8.46		
	For >750, Deduct	-10.98		
33 11 13 00-0054	LF 14" Diameter, Steel Well Casing, Flush.....	88.98		
	For >100 To 250, Deduct	-2.65		
	For >250 To 400, Deduct	-4.87		
	For >400 To 600, Deduct	-7.31		
	For >600 To 750, Deduct	-9.75		
	For >750, Deduct	-12.73		
33 11 13 00-0055	LF 16" Diameter, Steel Well Casing, Flush.....	104.77		
	For >100 To 250, Deduct	-3.15		
	For >250 To 400, Deduct	-5.76		
	For >400 To 600, Deduct	-8.65		
	For >600 To 750, Deduct	-11.53		
	For >750, Deduct	-15.10		
33 11 13 00-0056	LF 18" Diameter, Steel Well Casing, Flush.....	120.23		
	For >100 To 250, Deduct	-3.67		
	For >250 To 400, Deduct	-6.67		
	For >400 To 600, Deduct	-10.01		
	For >600 To 750, Deduct	-13.35		
	For >750, Deduct	-17.54		
33 11 13 00-0057	LF 20" Diameter, Steel Well Casing, Flush.....	137.74		
	For >100 To 250, Deduct	-4.26		
	For >250 To 400, Deduct	-7.70		
	For >400 To 600, Deduct	-11.55		
	For >600 To 750, Deduct	-15.40		
	For >750, Deduct	-20.31		
33 11 13 00-0058	LF 24" Diameter, Steel Well Casing, Flush.....	160.59		
	For >100 To 250, Deduct	-4.93		
	For >250 To 400, Deduct	-8.95		
	For >400 To 600, Deduct	-13.42		
	For >600 To 750, Deduct	-17.89		
	For >750, Deduct	-23.56		
33 11 13 00-0059	LB Steel Well Casing, Furnish And Install.....	0.92		
	For >100 To 250, Deduct	-0.03		
	For >250 To 400, Deduct	-0.06		
	For >400 To 600, Deduct	-0.09		
	For >600 To 750, Deduct	-0.12		
	For >750, Deduct	-0.16		
33 11 13 00-0060	Stainless Steel Well Casing, Flush Threaded (33 11 13 00-0048)			
33 11 13 00-0061	LF 6" Diameter, Stainless Steel Well Casing, Flush.....	65.53		
	For >100 To 250, Deduct	-1.81		
	For >250 To 400, Deduct	-3.45		
	For >400 To 600, Deduct	-5.17		
	For >600 To 750, Deduct	-6.89		
	For >750, Deduct	-8.84		

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush.....	98.42	
For >100 To 250, Deduct	-2.67	
For >250 To 400, Deduct	-5.13	
For >400 To 600, Deduct	-7.70	
For >600 To 750, Deduct	-10.27	
For >750, Deduct	-13.11	
33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush.....	137.51	
For >100 To 250, Deduct	-3.71	
For >250 To 400, Deduct	-7.15	
For >400 To 600, Deduct	-10.72	
For >600 To 750, Deduct	-14.29	
For >750, Deduct	-18.22	
33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush.....	159.90	
For >100 To 250, Deduct	-4.32	
For >250 To 400, Deduct	-8.32	
For >400 To 600, Deduct	-12.48	
For >600 To 750, Deduct	-16.63	
For >750, Deduct	-21.21	
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring (33 11 13 00-0048)		
33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded	145.64	
For >100 To 250, Deduct	-4.12	
For >250 To 400, Deduct	-7.76	
For >400 To 600, Deduct	-11.64	
For >600 To 750, Deduct	-15.51	
For >750, Deduct	-20.01	
33 11 13 00-0067 LF 12" Diameter, Stainless Steel Well Casing, Welded	168.73	
For >100 To 250, Deduct	-4.76	
For >250 To 400, Deduct	-8.98	
For >400 To 600, Deduct	-13.47	
For >600 To 750, Deduct	-17.96	
For >750, Deduct	-23.15	
33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded	202.80	
For >100 To 250, Deduct	-5.68	
For >250 To 400, Deduct	-10.75	
For >400 To 600, Deduct	-16.13	
For >600 To 750, Deduct	-21.50	
For >750, Deduct	-27.67	
33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded	232.21	
For >100 To 250, Deduct	-6.50	
For >250 To 400, Deduct	-12.31	
For >400 To 600, Deduct	-18.46	
For >600 To 750, Deduct	-24.61	
For >750, Deduct	-31.67	
33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded	256.41	
For >100 To 250, Deduct	-7.21	
For >250 To 400, Deduct	-13.62	
For >400 To 600, Deduct	-20.43	
For >600 To 750, Deduct	-27.24	
For >750, Deduct	-35.08	
33 11 13 00-0071 LF 20" Diameter, Stainless Steel Well Casing, Welded	336.02	
For >100 To 250, Deduct	-9.35	
For >250 To 400, Deduct	-17.75	
For >400 To 600, Deduct	-26.63	
For >600 To 750, Deduct	-35.50	
For >750, Deduct	-45.61	
33 11 13 00-0072 LF 24" Diameter, Stainless Steel Well Casing, Welded	442.75	
For >100 To 250, Deduct	-12.26	
For >250 To 400, Deduct	-23.33	
For >400 To 600, Deduct	-34.99	
For >600 To 750, Deduct	-46.65	
For >750, Deduct	-59.86	
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 (33 11 13 00-0048)		
33 11 13 00-0074 LF 6" Polyvinyl Chloride (PVC) Well Casing	36.43	
For >100 To 250, Deduct	-1.05	
For >250 To 400, Deduct	-1.96	
For >400 To 600, Deduct	-2.94	
For >600 To 750, Deduct	-3.91	
For >750, Deduct	-5.07	
33 11 13 00-0075 LF 8" Polyvinyl Chloride (PVC) Well Casing	57.86	
For >100 To 250, Deduct	-1.66	
For >250 To 400, Deduct	-3.11	
For >400 To 600, Deduct	-4.66	
For >600 To 750, Deduct	-6.21	
For >750, Deduct	-8.04	
33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing	87.44	
For >100 To 250, Deduct	-2.51	
For >250 To 400, Deduct	-4.69	
For >400 To 600, Deduct	-7.04	
For >600 To 750, Deduct	-9.39	
For >750, Deduct	-12.15	



		Utilities	33	33
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0077	LF		12" Polyvinyl Chloride (PVC) Well Casing	103.16	
			For >100 To 250, Deduct	-2.97	
			For >250 To 400, Deduct	-5.55	
			For >400 To 600, Deduct	-8.32	
			For >600 To 750, Deduct	-11.10	
			For >750, Deduct	-14.38	
33 11 13 00-0078			Furnish And Install Well Screen Assembly (33 11 13 00-0001)		
33 11 13 00-0079			Stainless Steel Well Screen (33 11 13 00-0078)		
33 11 13 00-0080	LF		2" Stainless Steel Well Screen	20.26	1.35
			For >100 To 250, Deduct	-0.68	
			For >250 To 400, Deduct	-1.19	
			For >400 To 600, Deduct	-1.78	
			For >600 To 750, Deduct	-2.37	
			For >750, Deduct	-3.19	
33 11 13 00-0081	LF		3" Stainless Steel Well Screen	32.26	1.35
			For >100 To 250, Deduct	-0.99	
			For >250 To 400, Deduct	-1.80	
			For >400 To 600, Deduct	-2.70	
			For >600 To 750, Deduct	-3.60	
			For >750, Deduct	-4.75	
33 11 13 00-0082	LF		4" Stainless Steel Well Screen	40.52	2.04
			For >100 To 250, Deduct	-1.25	
			For >250 To 400, Deduct	-2.26	
			For >400 To 600, Deduct	-3.40	
			For >600 To 750, Deduct	-4.53	
			For >750, Deduct	-5.97	
33 11 13 00-0083	LF		5" Stainless Steel Well Screen	51.26	2.04
			For >100 To 250, Deduct	-1.56	
			For >250 To 400, Deduct	-2.85	
			For >400 To 600, Deduct	-4.27	
			For >600 To 750, Deduct	-5.69	
			For >750, Deduct	-7.48	
33 11 13 00-0084	LF		6" Stainless Steel Well Screen	61.43	2.72
			For >100 To 250, Deduct	-1.91	
			For >250 To 400, Deduct	-3.45	
			For >400 To 600, Deduct	-5.17	
			For >600 To 750, Deduct	-6.90	
			For >750, Deduct	-9.11	
33 11 13 00-0085	LF		8" Stainless Steel Well Screen	80.19	3.39
			For >100 To 250, Deduct	-2.49	
			For >250 To 400, Deduct	-4.49	
			For >400 To 600, Deduct	-6.74	
			For >600 To 750, Deduct	-8.98	
			For >750, Deduct	-11.86	
33 11 13 00-0086	LF		10" Stainless Steel Well Screen.....	101.70	5.43
			For >100 To 250, Deduct	-3.19	
			For >250 To 400, Deduct	-5.74	
			For >400 To 600, Deduct	-8.60	
			For >600 To 750, Deduct	-11.47	
			For >750, Deduct	-15.19	
33 11 13 00-0087	LF		12" Stainless Steel Well Screen.....	119.31	6.79
			For >100 To 250, Deduct	-3.74	
			For >250 To 400, Deduct	-6.73	
			For >400 To 600, Deduct	-10.09	
			For >600 To 750, Deduct	-13.45	
			For >750, Deduct	-17.80	
33 11 13 00-0088	LF		14" Stainless Steel Well Screen.....	130.94	7.47
			For >100 To 250, Deduct	-4.15	
			For >250 To 400, Deduct	-7.42	
			For >400 To 600, Deduct	-11.13	
			For >600 To 750, Deduct	-14.84	
			For >750, Deduct	-19.69	
33 11 13 00-0089	LF		16" Stainless Steel Well Screen.....	141.68	8.83
			For >100 To 250, Deduct	-4.53	
			For >250 To 400, Deduct	-8.07	
			For >400 To 600, Deduct	-12.10	
			For >600 To 750, Deduct	-16.14	
			For >750, Deduct	-21.45	
33 11 13 00-0090	LF		18" Stainless Steel Well Screen.....	170.01	10.18
			For >100 To 250, Deduct	-5.46	
			For >250 To 400, Deduct	-9.71	
			For >400 To 600, Deduct	-14.57	
			For >600 To 750, Deduct	-19.43	
			For >750, Deduct	-25.86	
33 11 13 00-0091	LF		20" Stainless Steel Well Screen.....	214.44	12.89
			For >100 To 250, Deduct	-6.88	
			For >250 To 400, Deduct	-12.25	
			For >400 To 600, Deduct	-18.37	
			For >600 To 750, Deduct	-24.49	
			For >750, Deduct	-32.59	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0092 LF 24" Stainless Steel Well Screen.....	278.15	16.97
For >100 To 250, Deduct	-8.95	
For >250 To 400, Deduct	-15.90	
For >400 To 600, Deduct	-23.86	
For >600 To 750, Deduct	-31.81	
For >750, Deduct	-42.36	
33 11 13 00-0093 LF 26" Stainless Steel Well Screen.....	320.79	19.69
For >100 To 250, Deduct	-10.28	
For >250 To 400, Deduct	-18.30	
For >400 To 600, Deduct	-27.45	
For >600 To 750, Deduct	-36.61	
For >750, Deduct	-48.70	
33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 (33 11 13 00-0078)		
33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	11.12	
For >100 To 250, Deduct	-0.40	
For >250 To 400, Deduct	-0.68	
For >400 To 600, Deduct	-1.02	
For >600 To 750, Deduct	-1.36	
For >750, Deduct	-1.86	
For Schedule 80, Add	2.47	
33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	12.68	
For >100 To 250, Deduct	-0.45	
For >250 To 400, Deduct	-0.77	
For >400 To 600, Deduct	-1.15	
For >600 To 750, Deduct	-1.53	
For >750, Deduct	-2.09	
For Schedule 80, Add	2.96	
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	18.08	
For >100 To 250, Deduct	-0.69	
For >250 To 400, Deduct	-1.14	
For >400 To 600, Deduct	-1.71	
For >600 To 750, Deduct	-2.28	
For >750, Deduct	-3.16	
For Schedule 80, Add	3.46	
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	26.23	
For >100 To 250, Deduct	-0.91	
For >250 To 400, Deduct	-1.57	
For >400 To 600, Deduct	-2.35	
For >600 To 750, Deduct	-3.13	
For >750, Deduct	-4.25	
For Schedule 80, Add	6.42	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	33.00	
For >100 To 250, Deduct	-1.15	
For >250 To 400, Deduct	-1.97	
For >400 To 600, Deduct	-2.96	
For >600 To 750, Deduct	-3.94	
For >750, Deduct	-5.35	
For Schedule 80, Add	8.04	
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	41.25	
For >100 To 250, Deduct	-1.41	
For >250 To 400, Deduct	-2.45	
For >400 To 600, Deduct	-3.67	
For >600 To 750, Deduct	-4.89	
For >750, Deduct	-6.61	
For Schedule 80, Add	10.36	
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	45.74	
For >100 To 250, Deduct	-1.65	
For >250 To 400, Deduct	-2.80	
For >400 To 600, Deduct	-4.20	
For >600 To 750, Deduct	-5.60	
For >750, Deduct	-7.66	
For Schedule 80, Add	10.12	
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	65.64	
For >100 To 250, Deduct	-2.30	
For >250 To 400, Deduct	-3.94	
For >400 To 600, Deduct	-5.90	
For >600 To 750, Deduct	-7.87	
For >750, Deduct	-10.69	
For Schedule 80, Add	15.79	
33 11 13 00-0103 Furnish And Install Gravel Pack Material (33 11 13 00-0001)		
Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104 Artificial Gravel Pack (33 11 13 00-0103)		
Note: Excludes casing.		
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen.....	12.16	
For >100 To 250, Deduct	-0.50	
For >250 To 400, Deduct	-0.80	
For >400 To 600, Deduct	-1.20	
For >600 To 750, Deduct	-1.61	
For >750, Deduct	-2.26	



		Utilities	33	33
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 11 13 00-0106	LF	Artificial Gravel Pack, 8" Casing, 2" Screen.....	18.19	
		For >100 To 250, Deduct	-0.76	
		For >250 To 400, Deduct	-1.22	
		For >400 To 600, Deduct	-1.82	
		For >600 To 750, Deduct	-2.43	
		For >750, Deduct	-3.44	
33 11 13 00-0107	LF	Artificial Gravel Pack, 10" Casing, 2" Screen.....	25.73	
		For >100 To 250, Deduct	-1.10	
		For >250 To 400, Deduct	-1.74	
		For >400 To 600, Deduct	-2.61	
		For >600 To 750, Deduct	-3.48	
		For >750, Deduct	-4.95	
33 11 13 00-0108	LF	Artificial Gravel Pack, 12" Casing, 2" Screen.....	32.74	
		For >100 To 250, Deduct	-1.38	
		For >250 To 400, Deduct	-2.20	
		For >400 To 600, Deduct	-3.30	
		For >600 To 750, Deduct	-4.41	
		For >750, Deduct	-6.24	
33 11 13 00-0109	LF	Artificial Gravel Pack, 14" Casing, 2" Screen.....	40.10	
		For >100 To 250, Deduct	-1.68	
		For >250 To 400, Deduct	-2.68	
		For >400 To 600, Deduct	-4.02	
		For >600 To 750, Deduct	-5.36	
		For >750, Deduct	-7.58	
33 11 13 00-0110	LF	Artificial Gravel Pack, 16" Casing, 2" Screen.....	51.37	
		For >100 To 250, Deduct	-2.12	
		For >250 To 400, Deduct	-3.40	
		For >400 To 600, Deduct	-5.10	
		For >600 To 750, Deduct	-6.81	
		For >750, Deduct	-9.59	
33 11 13 00-0111	LF	Artificial Gravel Pack, 18" Casing, 2" Screen.....	58.72	
		For >100 To 250, Deduct	-2.41	
		For >250 To 400, Deduct	-3.88	
		For >400 To 600, Deduct	-5.82	
		For >600 To 750, Deduct	-7.76	
		For >750, Deduct	-10.92	
33 11 13 00-0112	LF	Artificial Gravel Pack, 20" Casing, 2" Screen.....	70.15	
		For >100 To 250, Deduct	-2.90	
		For >250 To 400, Deduct	-4.66	
		For >400 To 600, Deduct	-6.99	
		For >600 To 750, Deduct	-9.32	
		For >750, Deduct	-13.14	
33 11 13 00-0113	LF	Artificial Gravel Pack, 24" Casing, 2" Screen.....	79.61	
		For >100 To 250, Deduct	-3.31	
		For >250 To 400, Deduct	-5.30	
		For >400 To 600, Deduct	-7.95	
		For >600 To 750, Deduct	-10.60	
		For >750, Deduct	-14.97	
33 11 13 00-0114	LF	Artificial Gravel Pack, 26" Casing, 2" Screen.....	85.21	
		For >100 To 250, Deduct	-3.51	
		For >250 To 400, Deduct	-5.64	
		For >400 To 600, Deduct	-8.46	
		For >600 To 750, Deduct	-11.28	
		For >750, Deduct	-15.90	
33 11 13 00-0115	LF	Artificial Gravel Pack, 30" Casing, 2" Screen.....	102.29	
		For >100 To 250, Deduct	-4.26	
		For >250 To 400, Deduct	-6.81	
		For >400 To 600, Deduct	-10.22	
		For >600 To 750, Deduct	-13.62	
		For >750, Deduct	-19.24	
33 11 13 00-0116	LF	Artificial Gravel Pack, 36" Casing, 2" Screen.....	119.73	
		For >100 To 250, Deduct	-5.06	
		For >250 To 400, Deduct	-8.06	
		For >400 To 600, Deduct	-12.09	
		For >600 To 750, Deduct	-16.11	
		For >750, Deduct	-22.83	
33 11 13 00-0117		Develop Well (33 11 13 00-0001)		
		Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118	HR	Develop Well.....	274.01	
33 11 13 00-0119		Pump Test (33 11 13 00-0001)		
		Note: To determine water level and GPM flow rate.		
33 11 13 00-0120	HR	Pump Test Well	246.16	
33 11 13 00-0121		Test Well (33 11 13 00-0001)		
33 11 13 00-0122	VLF	2-1/2" Diameter Test Well	76.70	
33 11 13 00-0123		Surface Seal, Concrete Filled (33 11 13)		
33 11 13 00-0124	SF	Surface Seal Well, Concrete Filled	26.70	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 11 13 00-0125	Other Water Well (33 11 13)				
33 11 13 00-0126	SF Patch Hole In Well Casing	70.30			
33 11 13 00-0127	SF 1/2" Pressure Grout Well	2.08			
33 11 13 00-0128	SF 1" Pressure Grout Well	3.42			
33 11 13 00-0129	CF Sediment Removal In Well Casing For Existing Well.....	4.24			
33 11 13 00-0130	Sterilization Of Well (33 11 13)				
33 11 13 00-0131	EA Well Sterilization, Chlorine.....	1,306.91			
33 11 13 00-0132	Submersible Well Pumps (33 11 13)				
	Note: Includes pump end, motor and control box.				
33 11 13 00-0133	4" Submersible Well Pumps (33 11 13 00-0132)				
33 11 13 00-0134	Powder Coated Case And Cast Iron Ends (33 11 13 00-0133)				
33 11 13 00-0135	EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,162.25		375.30	
33 11 13 00-0136	EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,327.00		415.98	
33 11 13 00-0137	EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,472.59		462.20	
33 11 13 00-0138	Stainless Steel Case And Ends (33 11 13 00-0133)				
33 11 13 00-0139	EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,327.28		369.76	
33 11 13 00-0140	EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,515.79		415.98	
33 11 13 00-0141	EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,700.91		462.20	
33 11 13 00-0142	EA 1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,956.11		508.42	
33 11 13 00-0143	EA 2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,221.49		554.63	
33 11 13 00-0144	EA 3 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,745.46		647.07	
33 11 13 00-0145	EA 5 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,480.79		739.52	
33 11 13 00-0146	6" Submersible Well Pumps (33 11 13 00-0132)				
33 11 13 00-0147	EA 5 HP Submersible Well Pump, 6" Diameter Stainless Steel	3,309.14		924.39	
33 11 13 00-0148	EA 7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel	3,834.12		1,016.83	
33 11 13 00-0149	EA 10 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,380.81		1,109.27	
33 11 13 00-0150	EA 15 HP Submersible Well Pump, 6" Diameter Stainless Steel	5,560.99		1,294.15	
33 14	Water Utility Transmission and Distribution (33 10)				
33 14 11	Water Utility Transmission Piping (33 14)				
	See CSI section 33 14 13 00-0000 for water utility transmission piping.				
33 14 13	Public Water Utility Distribution Piping (33 14)				
	Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.				
33 14 13 13	Ductile Iron Public Water Utility Distribution Piping (33 14 13)				
33 14 13 13-0001	Ductile Iron Piping (33 14 13 13)				
33 14 13 13-0002	Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)				
	Note: Cement lining and bituminous coating shall conform to ANSI A21.4. See CSI section 33 14 13 13-0484 for bolts and gaskets.				
33 14 13 13-0003	Mechanical Joint Ductile Iron Pipe (33 14 13 13-0002)				
	Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.				
33 14 13 13-0004	LF 3", Class 51, Mechanical Joint Ductile Iron Pipe.....	27.52		10.01	
	For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	8.67			
	For Cement Mortar Lining (CML), Add	1.24			
	Note: ANSI/AWWA C104/A21.4				
	For 40 Mil Ceramic Epoxy Lining (P401), Add	6.69			
	For Fusion Bonded Epoxy Lining (206N), Add	2.23			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	0.93			
	Note: ANSI/AWWA C151/A21.51				
	For >1,000, Deduct	-1.38			
	For Class 52, Add	2.80			
	For Class 53, Add	7.21			
	For Class 54, Add	10.25			
	For Class 55, Add	11.83			
	For Class 56, Add	13.38			



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0005	LF		4", Class 50, Mechanical Joint Ductile Iron Pipe.....	29.74	10.65
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	9.53	
			For Cement Mortar Lining (CML), Add	1.36	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	7.35	
			For Fusion Bonded Epoxy Lining (206N), Add	2.45	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.02	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-1.49	
			For Class 51, Add	1.38	
			For Class 52, Add	3.06	
			For Class 53, Add	7.90	
			For Class 54, Add	11.24	
			For Class 55, Add	12.96	
			For Class 56, Add	14.66	
33 14 13 13-0006	LF		6", Class 50, Mechanical Joint Ductile Iron Pipe.....	31.66	11.18
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	10.34	
			For Cement Mortar Lining (CML), Add	1.48	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	7.98	
			For Fusion Bonded Epoxy Lining (206N), Add	2.66	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.11	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-1.58	
			For Class 51, Add	1.49	
			For Class 52, Add	3.30	
			For Class 53, Add	8.55	
			For Class 54, Add	12.16	
			For Class 55, Add	14.03	
			For Class 56, Add	15.87	
33 14 13 13-0007	LF		8", Class 50, Mechanical Joint Ductile Iron Pipe.....	36.49	11.61
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.23	
			For Cement Mortar Lining (CML), Add	1.89	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	10.21	
			For Fusion Bonded Epoxy Lining (206N), Add	3.40	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.42	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-1.82	
			For Class 51, Add	1.85	
			For Class 52, Add	4.13	
			For Class 53, Add	10.79	
			For Class 54, Add	15.36	
			For Class 55, Add	17.70	
			For Class 56, Add	20.00	
33 14 13 13-0008	LF		10", Class 50, Mechanical Joint Ductile Iron Pipe.....	49.66	16.56
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	14.75	
			For Cement Mortar Lining (CML), Add	2.46	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	12.29	
			For Fusion Bonded Epoxy Lining (206N), Add	4.42	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.84	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-2.48	
			For Class 51, Add	2.43	
			For Class 52, Add	5.42	
			For Class 53, Add	14.11	
			For Class 54, Add	20.09	
			For Class 55, Add	23.16	
			For Class 56, Add	26.18	
33 14 13 13-0009	LF		12", Class 50, Mechanical Joint Ductile Iron Pipe.....	59.27	18.39
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.70	
			For Cement Mortar Lining (CML), Add	3.14	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	12.56	
			For Fusion Bonded Epoxy Lining (206N), Add	5.65	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.36	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-2.96	
			For Class 51, Add	3.06	
			For Class 52, Add	6.82	
			For Class 53, Add	17.87	
			For Class 54, Add	25.46	
			For Class 55, Add	29.33	
			For Class 56, Add	33.13	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	70.29	20.65
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.13	
For Cement Mortar Lining (CML), Add	3.89	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.24	
For Fusion Bonded Epoxy Lining (206N), Add	7.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.92	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.51	
For Class 51, Add	3.75	
For Class 52, Add	8.38	
For Class 53, Add	22.04	
For Class 54, Add	31.41	
For Class 55, Add	36.17	
For Class 56, Add	40.84	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	79.48	23.66
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.90	
For Cement Mortar Lining (CML), Add	4.37	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.53	
For Fusion Bonded Epoxy Lining (206N), Add	7.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.27	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.97	
For Class 51, Add	4.21	
For Class 52, Add	9.41	
For Class 53, Add	24.74	
For Class 54, Add	35.24	
For Class 55, Add	40.59	
For Class 56, Add	45.84	
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe.....	97.78	27.59
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	22.95	
For Cement Mortar Lining (CML), Add	5.60	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.35	
For Fusion Bonded Epoxy Lining (206N), Add	10.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.20	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.89	
For Class 51, Add	5.35	
For Class 52, Add	11.97	
For Class 53, Add	31.57	
For Class 54, Add	44.99	
For Class 55, Add	51.79	
For Class 56, Add	58.47	
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe.....	111.81	33.11
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.43	
For Cement Mortar Lining (CML), Add	6.17	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.26	
For Fusion Bonded Epoxy Lining (206N), Add	11.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.62	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.59	
For Class 51, Add	5.95	
For Class 52, Add	13.28	
For Class 53, Add	34.92	
For Class 54, Add	49.76	
For Class 55, Add	57.29	
For Class 56, Add	64.70	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe.....	145.44	41.38
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	25.65	
For Cement Mortar Lining (CML), Add	8.27	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.38	
For Fusion Bonded Epoxy Lining (206N), Add	14.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.21	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.27	
For Class 51, Add	7.92	
For Class 52, Add	17.71	
For Class 53, Add	46.69	
For Class 54, Add	66.55	
For Class 55, Add	76.61	
For Class 56, Add	86.49	



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0015	LF		30", Class 50, Mechanical Joint Ductile Iron Pipe.....	183.56	44.56
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	36.17	
			For Cement Mortar Lining (CML), Add	11.67	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	21.00	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.75	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-9.18	
			For Class 51, Add	10.91	
			For Class 52, Add	24.44	
			For Class 53, Add	65.04	
			For Class 54, Add	92.77	
			For Class 55, Add	106.68	
			For Class 56, Add	120.35	
33 14 13 13-0016	LF		36", Class 50, Mechanical Joint Ductile Iron Pipe.....	216.96	47.31
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	45.23	
			For Cement Mortar Lining (CML), Add	14.59	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	26.26	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.94	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-10.85	
			For Class 51, Add	13.48	
			For Class 52, Add	30.24	
			For Class 53, Add	80.85	
			For Class 54, Add	115.37	
			For Class 55, Add	132.61	
			For Class 56, Add	149.55	
33 14 13 13-0017	LF		42", Class 50, Mechanical Joint Ductile Iron Pipe.....	263.20	50.08
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	58.26	
			For Cement Mortar Lining (CML), Add	18.80	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	33.83	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.10	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-13.16	
			For Class 51, Add	17.16	
			For Class 52, Add	38.55	
			For Class 53, Add	103.54	
			For Class 54, Add	147.81	
			For Class 55, Add	169.82	
			For Class 56, Add	191.43	
33 14 13 13-0018	LF		48", Class 50, Mechanical Joint Ductile Iron Pipe.....	318.98	52.92
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	74.26	
			For Cement Mortar Lining (CML), Add	23.96	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	43.12	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.97	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-15.95	
			For Class 51, Add	21.67	
			For Class 52, Add	48.72	
			For Class 53, Add	131.36	
			For Class 54, Add	187.57	
			For Class 55, Add	215.42	
			For Class 56, Add	242.76	
33 14 13 13-0019			Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020	EA		3" Mechanical Joint Ductile Iron 90 Degree Elbow	88.71	31.58
			For Cement Mortar Lining (CML), Add	4.09	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	7.35	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.06	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021	EA		4" Mechanical Joint Ductile Iron 90 Degree Elbow	101.65	37.74
			For Cement Mortar Lining (CML), Add	4.45	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	8.00	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.33	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022	EA		6" Mechanical Joint Ductile Iron 90 Degree Elbow	157.16	55.78
			For Cement Mortar Lining (CML), Add	7.27	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	13.09	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.45	
			Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0023	EA	8" Mechanical Joint Ductile Iron 90 Degree Elbow	206.02	66.16
		For Cement Mortar Lining (CML), Add	10.57	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	19.03	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.93	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024	EA	10" Mechanical Joint Ductile Iron 90 Degree Elbow	279.42	73.40
		For Cement Mortar Lining (CML), Add	16.82	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	30.28	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.62	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025	EA	12" Mechanical Joint Ductile Iron 90 Degree Elbow	356.91	86.11
		For Cement Mortar Lining (CML), Add	22.65	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	40.77	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.99	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026	EA	14" Mechanical Joint Ductile Iron 90 Degree Elbow	525.39	96.56
		For Cement Mortar Lining (CML), Add	37.91	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	68.24	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.43	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0027	EA	16" Mechanical Joint Ductile Iron 90 Degree Elbow	682.09	110.35
		For Cement Mortar Lining (CML), Add	51.49	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	92.68	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.62	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028	EA	18" Mechanical Joint Ductile Iron 90 Degree Elbow	854.07	154.49
		For Cement Mortar Lining (CML), Add	62.00	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	111.61	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.50	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0029	EA	20" Mechanical Joint Ductile Iron 90 Degree Elbow	1,157.14	193.12
		For Cement Mortar Lining (CML), Add	86.46	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	155.62	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.84	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0030	EA	24" Mechanical Joint Ductile Iron 90 Degree Elbow	1,680.20	257.15
		For Cement Mortar Lining (CML), Add	129.05	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	232.29	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	96.79	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0031	EA	30" Mechanical Joint Ductile Iron 90 Degree Elbow	2,488.96	275.89
		For Cement Mortar Lining (CML), Add	207.10	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	372.77	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	155.32	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0032	EA	36" Mechanical Joint Ductile Iron 90 Degree Elbow	3,671.62	286.42
		For Cement Mortar Lining (CML), Add	323.77	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	582.79	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	242.83	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0033	EA	42" Mechanical Joint Ductile Iron 90 Degree Elbow	6,053.59	331.06
		For Cement Mortar Lining (CML), Add	555.20	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	999.36	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	416.40	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0034	EA	48" Mechanical Joint Ductile Iron 90 Degree Elbow	7,936.68	352.21
		For Cement Mortar Lining (CML), Add	740.31	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,332.55	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	555.23	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0002)



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0036	EA	3" Mechanical Joint Ductile Iron 45 Degree Elbow	84.51	31.58
		For Cement Mortar Lining (CML), Add	3.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	6.60	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.75	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0037	EA	4" Mechanical Joint Ductile Iron 45 Degree Elbow	93.84	37.74
		For Cement Mortar Lining (CML), Add	3.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	6.60	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.75	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0038	EA	6" Mechanical Joint Ductile Iron 45 Degree Elbow	143.34	55.78
		For Cement Mortar Lining (CML), Add	5.89	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	10.60	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.42	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0039	EA	8" Mechanical Joint Ductile Iron 45 Degree Elbow	186.19	66.16
		For Cement Mortar Lining (CML), Add	8.59	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	15.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.44	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0040	EA	10" Mechanical Joint Ductile Iron 45 Degree Elbow	236.77	73.40
		For Cement Mortar Lining (CML), Add	12.56	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	22.60	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.42	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0041	EA	12" Mechanical Joint Ductile Iron 45 Degree Elbow	317.86	86.11
		For Cement Mortar Lining (CML), Add	18.75	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	33.74	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.06	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0042	EA	14" Mechanical Joint Ductile Iron 45 Degree Elbow	441.28	96.56
		For Cement Mortar Lining (CML), Add	29.50	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	53.10	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.12	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0043	EA	16" Mechanical Joint Ductile Iron 45 Degree Elbow	534.89	110.35
		For Cement Mortar Lining (CML), Add	36.77	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	66.18	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.58	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0044	EA	18" Mechanical Joint Ductile Iron 45 Degree Elbow	761.54	154.49
		For Cement Mortar Lining (CML), Add	52.75	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	94.95	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.56	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0045	EA	20" Mechanical Joint Ductile Iron 45 Degree Elbow	856.14	193.12
		For Cement Mortar Lining (CML), Add	56.36	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	101.44	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.27	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0046	EA	24" Mechanical Joint Ductile Iron 45 Degree Elbow	1,245.82	257.15
		For Cement Mortar Lining (CML), Add	85.61	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	154.11	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.21	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0047	EA	30" Mechanical Joint Ductile Iron 45 Degree Elbow	2,157.32	275.89
		For Cement Mortar Lining (CML), Add	173.93	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	313.08	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	130.45	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,977.10 254.32 457.77 190.74	286.42
33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,409.20 390.76 703.37 293.07	331.06
33 14 13 13-0050 EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,654.24 512.06 921.71 384.05	352.21
33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0052 EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	76.70 2.88 5.19 2.16	31.58
33 14 13 13-0053 EA 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	92.04 3.49 6.27 2.61	37.74
33 14 13 13-0054 EA 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	138.53 5.41 9.73 4.06	55.78
33 14 13 13-0055 EA 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	184.39 8.41 15.14 6.31	66.16
33 14 13 13-0056 EA 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	236.17 12.50 22.49 9.37	73.40
33 14 13 13-0057 EA 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	294.43 16.40 29.52 12.30	86.11
33 14 13 13-0058 EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	444.89 29.86 53.75 22.40	96.56
33 14 13 13-0059 EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	519.87 35.27 63.48 26.45	110.35
33 14 13 13-0060 EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	667.22 43.32 77.97 32.49	154.49



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0061	EA	20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	881.37 58.88 105.98 44.16	193.12
33 14 13 13-0062	EA	24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,179.73 79.01 142.21 59.25	257.15
33 14 13 13-0063	EA	30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,875.54 145.75 262.36 109.32	275.89
33 14 13 13-0064	EA	36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,570.35 213.64 384.56 160.23	286.42
33 14 13 13-0065	EA	42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,727.30 322.57 580.63 241.93	331.06
33 14 13 13-0066	EA	48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,733.81 420.02 756.03 315.01	352.21
33 14 13 13-0067		Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0068	EA	3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	76.70 2.88 5.19 2.16	31.58
33 14 13 13-0069	EA	4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	90.23 3.30 5.95 2.48	37.74
33 14 13 13-0070	EA	6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	140.33 5.59 10.06 4.19	55.78
33 14 13 13-0071	EA	8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	176.58 7.63 13.73 5.72	66.16
33 14 13 13-0072	EA	10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	234.96 12.38 22.28 9.28	73.40
33 14 13 13-0073	EA	12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	284.21 15.38 27.68 11.54	86.11

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0074	EA	14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	486.94 34.07 61.32 25.55	96.56
33 14 13 13-0075	EA	16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	540.30 37.31 67.16 27.98	110.35
33 14 13 13-0076	EA	18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	781.37 54.73 98.52 41.05	154.49
33 14 13 13-0077	EA	20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	847.13 55.45 99.82 41.59	193.12
33 14 13 13-0078	EA	24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,129.26 73.96 133.12 55.47	257.15
33 14 13 13-0079	EA	30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,901.98 148.40 267.12 111.30	275.89
33 14 13 13-0080	EA	36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,462.21 202.83 365.09 152.12	286.42
33 14 13 13-0081	EA	42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,580.10 307.85 554.13 230.89	331.06
33 14 13 13-0082	EA	48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,704.97 417.14 750.84 312.85	352.21
33 14 13 13-0083		Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0084	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	90.52 4.27 7.68 3.20	31.58
33 14 13 13-0085	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	110.06 5.29 9.52 3.97	37.74



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	172.18 8.77 15.79 6.58	55.78
33 14 13 13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	225.85 12.56 22.60 9.42	66.16
33 14 13 13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	308.26 19.71 35.47 14.78	73.40
33 14 13 13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	388.15 25.77 46.39 19.33	86.11
33 14 13 13-0090	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	625.73 47.94 86.30 35.96	96.56
33 14 13 13-0091	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	926.61 75.94 136.69 56.96	110.35
33 14 13 13-0092	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,096.79 86.28 155.30 64.71	154.49
33 14 13 13-0093	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,476.77 118.42 213.15 88.81	193.12
33 14 13 13-0094	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,812.37 142.27 256.08 106.70	257.15
33 14 13 13-0095	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,219.53 280.15 504.28 210.11	275.89
33 14 13 13-0096	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,596.58 516.27 929.28 387.20	286.42

33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0098 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	85.11	31.58
For Cement Mortar Lining (CML), Add	3.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0099 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	95.64	37.74
For Cement Mortar Lining (CML), Add	3.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0100 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	149.95	55.78
For Cement Mortar Lining (CML), Add	6.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0101 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	205.42	66.16
For Cement Mortar Lining (CML), Add	10.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0102 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	267.41	73.40
For Cement Mortar Lining (CML), Add	15.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0103 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	352.71	86.11
For Cement Mortar Lining (CML), Add	22.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0104 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	562.64	96.56
For Cement Mortar Lining (CML), Add	41.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	74.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0105 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	827.48	110.35
For Cement Mortar Lining (CML), Add	66.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	118.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	49.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0106 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	996.46	154.49
For Cement Mortar Lining (CML), Add	76.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	137.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	57.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0107 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,288.12	193.12
For Cement Mortar Lining (CML), Add	99.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	179.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	74.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0108 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,630.33	257.15
For Cement Mortar Lining (CML), Add	124.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	223.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	93.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0109 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,854.84	275.89
For Cement Mortar Lining (CML), Add	243.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	438.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	182.76	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0110 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,925.49 449.16 808.48 336.87	286.42
33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)		
33 14 13 13-0112 EA 3" x 3" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	141.47 6.97 12.54 5.23	47.38
33 14 13 13-0113 EA 4" x 3" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	149.93 6.97 12.54 5.23	52.95
33 14 13 13-0114 EA 4" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	142.74 5.83 10.49 4.37	55.78
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	186.96 8.05 14.49 6.04	70.25
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	208.77 9.79 17.63 7.34	73.16
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	229.18 10.51 18.93 7.89	81.90
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	242.00 11.36 20.44 8.52	84.78
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	272.62 13.10 23.57 9.82	93.49
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	308.47 15.80 28.44 11.85	99.32
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	312.45 17.42 31.36 13.07	91.22
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	319.58 16.88 30.39 12.66	99.50

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee.....	356.78	105.02
For Cement Mortar Lining (CML), Add	19.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee.....	393.10	110.35
For Cement Mortar Lining (CML), Add	22.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0125 EA 12" x 4" Mechanical Joint Ductile Iron Tee.....	368.22	102.26
For Cement Mortar Lining (CML), Add	21.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	38.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0126 EA 12" x 6" Mechanical Joint Ductile Iron Tee.....	413.80	110.53
For Cement Mortar Lining (CML), Add	24.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0127 EA 12" x 8" Mechanical Joint Ductile Iron Tee.....	492.46	116.06
For Cement Mortar Lining (CML), Add	31.66	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0128 EA 12" x 10" Mechanical Joint Ductile Iron Tee.....	525.17	121.39
For Cement Mortar Lining (CML), Add	34.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	61.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0129 EA 12" x 12" Mechanical Joint Ductile Iron Tee.....	507.69	126.91
For Cement Mortar Lining (CML), Add	31.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0130 EA 14" x 6" Mechanical Joint Ductile Iron Tee.....	536.39	128.80
For Cement Mortar Lining (CML), Add	34.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	61.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0131 EA 14" x 8" Mechanical Joint Ductile Iron Tee.....	589.82	134.32
For Cement Mortar Lining (CML), Add	38.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	69.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0132 EA 14" x 10" Mechanical Joint Ductile Iron Tee.....	727.68	139.65
For Cement Mortar Lining (CML), Add	51.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	92.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0133 EA 14" x 12" Mechanical Joint Ductile Iron Tee.....	774.48	145.17
For Cement Mortar Lining (CML), Add	55.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	99.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0134 EA 14" x 14" Mechanical Joint Ductile Iron Tee.....	758.89	154.33
For Cement Mortar Lining (CML), Add	52.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.38	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0135	EA	16" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	674.39 44.04 79.27 33.03	154.49
33 14 13 13-0136	EA	16" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	720.68 47.82 86.08 35.87	160.01
33 14 13 13-0137	EA	16" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	822.48 57.20 102.95 42.90	165.34
33 14 13 13-0138	EA	16" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	892.12 63.32 113.98 47.49	170.85
33 14 13 13-0139	EA	16" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,053.15 78.04 140.48 58.53	180.00
33 14 13 13-0140	EA	16" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,013.74 72.16 129.88 54.12	192.87
33 14 13 13-0141	EA	18" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	923.20 62.36 112.25 46.77	197.72
33 14 13 13-0142	EA	18" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	983.24 67.53 121.55 50.65	203.23
33 14 13 13-0143	EA	18" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,054.99 73.90 133.02 55.42	208.57
33 14 13 13-0144	EA	18" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,126.44 80.21 144.37 60.16	214.09
33 14 13 13-0145	EA	18" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,161.31 82.31 148.16 61.73	223.21
33 14 13 13-0146	EA	18" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,237.84 88.02 158.43 66.01	236.06

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0147	EA	18" x 18" Mechanical Joint Ductile Iron Tee.....	1,434.61	257.66
		For Cement Mortar Lining (CML), Add	104.42	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	187.95	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	78.31	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0148	EA	20" x 6" Mechanical Joint Ductile Iron Tee.....	1,131.32	283.53
		For Cement Mortar Lining (CML), Add	70.17	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	126.31	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.63	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0149	EA	20" x 8" Mechanical Joint Ductile Iron Tee.....	1,155.31	289.05
		For Cement Mortar Lining (CML), Add	71.74	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	129.12	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.80	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0150	EA	20" x 10" Mechanical Joint Ductile Iron Tee.....	1,242.09	294.38
		For Cement Mortar Lining (CML), Add	79.61	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	143.29	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.70	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0151	EA	20" x 12" Mechanical Joint Ductile Iron Tee.....	1,328.55	299.90
		For Cement Mortar Lining (CML), Add	87.42	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	157.35	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.56	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0152	EA	20" x 14" Mechanical Joint Ductile Iron Tee.....	1,348.99	309.02
		For Cement Mortar Lining (CML), Add	88.08	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	158.54	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	66.06	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0153	EA	20" x 16" Mechanical Joint Ductile Iron Tee.....	1,375.67	321.87
		For Cement Mortar Lining (CML), Add	88.80	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	159.84	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	66.60	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0154	EA	20" x 18" Mechanical Joint Ductile Iron Tee.....	1,679.97	343.48
		For Cement Mortar Lining (CML), Add	115.95	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	208.72	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	86.97	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0155	EA	20" x 20" Mechanical Joint Ductile Iron Tee.....	1,547.93	386.40
		For Cement Mortar Lining (CML), Add	96.25	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	173.25	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	72.19	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0156	EA	24" x 6" Mechanical Joint Ductile Iron Tee.....	1,403.32	369.07
		For Cement Mortar Lining (CML), Add	84.41	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	151.94	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.31	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0157	EA	24" x 8" Mechanical Joint Ductile Iron Tee.....	1,422.51	375.11
		For Cement Mortar Lining (CML), Add	85.49	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	153.89	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.12	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0158	EA	24" x 10" Mechanical Joint Ductile Iron Tee.....	1,541.13	379.92
		For Cement Mortar Lining (CML), Add	96.55	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	173.79	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	72.41	
		Note: ANSI/AWWA C151/A21.51		



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0159	EA	24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,576.52 99.25 178.65 74.44	385.45
33 14 13 13-0160	EA	24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,742.95 114.51 206.12 85.88	394.57
33 14 13 13-0161	EA	24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,867.56 125.03 225.05 93.77	407.42
33 14 13 13-0162	EA	24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,094.97 144.49 260.09 108.37	429.04
33 14 13 13-0163	EA	24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,319.20 160.41 288.75 120.31	471.94
33 14 13 13-0164	EA	24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,208.56 142.87 257.17 107.15	514.74
33 14 13 13-0165	EA	30" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,271.62 161.20 290.15 120.90	435.38
33 14 13 13-0166	EA	30" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,378.82 171.11 307.99 128.33	440.71
33 14 13 13-0167	EA	30" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,486.32 181.02 325.84 135.77	446.23
33 14 13 13-0168	EA	30" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,640.75 195.08 351.14 146.31	455.37
33 14 13 13-0169	EA	30" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,810.40 210.10 378.18 157.58	605.86
33 14 13 13-0170	EA	30" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,893.62 215.15 387.26 161.36	489.82

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0171	EA	30" x 20" Mechanical Joint Ductile Iron Tee.....	3,028.92	532.73	
		For Cement Mortar Lining (CML), Add	222.18		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	399.92		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	166.63		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0172	EA	30" x 24" Mechanical Joint Ductile Iron Tee.....	3,195.26	575.50	
		For Cement Mortar Lining (CML), Add	232.33		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	418.19		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	174.25		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0173	EA	30" x 30" Mechanical Joint Ductile Iron Tee.....	3,913.01	605.86	
		For Cement Mortar Lining (CML), Add	299.50		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	539.10		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	224.62		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0174	EA	30" x 6" Mechanical Joint Ductile Iron Tee.....	2,354.58	429.86	
		For Cement Mortar Lining (CML), Add	170.33		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	306.59		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	127.75		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0175	EA	36" x 8" Mechanical Joint Ductile Iron Tee.....	2,737.26	482.98	
		For Cement Mortar Lining (CML), Add	200.55		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	360.98		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.41		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0176	EA	36" x 10" Mechanical Joint Ductile Iron Tee.....	3,006.09	488.32	
		For Cement Mortar Lining (CML), Add	226.62		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	407.92		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	169.97		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0177	EA	36" x 12" Mechanical Joint Ductile Iron Tee.....	3,153.83	493.83	
		For Cement Mortar Lining (CML), Add	240.56		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	433.01		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	180.42		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0178	EA	36" x 14" Mechanical Joint Ductile Iron Tee.....	3,264.39	502.97	
		For Cement Mortar Lining (CML), Add	250.23		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	450.42		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	187.67		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0179	EA	36" x 16" Mechanical Joint Ductile Iron Tee.....	3,379.39	515.81	
		For Cement Mortar Lining (CML), Add	259.79		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	467.61		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	194.84		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0180	EA	36" x 18" Mechanical Joint Ductile Iron Tee.....	3,597.18	537.42	
		For Cement Mortar Lining (CML), Add	278.29		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	500.92		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	208.72		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0181	EA	36" x 20" Mechanical Joint Ductile Iron Tee.....	3,847.84	580.33	
		For Cement Mortar Lining (CML), Add	296.86		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	534.34		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	222.64		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0182	EA	36" x 24" Mechanical Joint Ductile Iron Tee.....	4,241.88	623.10	
		For Cement Mortar Lining (CML), Add	329.78		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	593.60		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	247.33		
		Note: ANSI/AWWA C151/A21.51			



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0183	EA	36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,661.04 367.09 660.76 275.32	677.34
33 14 13 13-0184	EA	36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,372.99 434.68 782.42 326.01	677.34
33 14 13 13-0185	EA	42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,844.88 505.63 910.14 379.22	520.43
33 14 13 13-0186	EA	42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,960.85 515.85 928.52 386.89	529.57
33 14 13 13-0187	EA	42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,587.72 576.59 1,037.86 432.44	542.42
33 14 13 13-0188	EA	42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,205.92 535.13 963.24 401.35	564.03
33 14 13 13-0189	EA	42" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,270.92 535.13 963.24 401.35	606.94
33 14 13 13-0190	EA	42" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,433.66 544.93 980.87 408.69	649.70
33 14 13 13-0191	EA	42" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,714.96 668.45 1,203.21 501.34	680.11
33 14 13 13-0192	EA	42" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,031.59 696.51 1,253.71 522.38	703.90
33 14 13 13-0193	EA	42" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,474.11 738.74 1,329.74 554.06	717.22
33 14 13 13-0194	EA	48" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,845.76 599.30 1,078.74 449.47	562.84

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0195 EA 48" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,967.74 610.11 1,098.20 457.58	571.96
33 14 13 13-0196 EA 48" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,140.41 625.43 1,125.78 469.07	584.81
33 14 13 13-0197 EA 48" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,325.76 640.69 1,153.25 480.52	606.43
33 14 13 13-0198 EA 48" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,543.98 656.01 1,180.83 492.01	649.33
33 14 13 13-0199 EA 48" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,629.20 658.06 1,184.50 493.54	692.10
33 14 13 13-0200 EA 48" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,188.67 809.40 1,456.92 607.05	722.50
33 14 13 13-0201 EA 48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,414.31 928.36 1,671.04 696.27	746.30
33 14 13 13-0202 EA 48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,905.50 975.46 1,755.83 731.59	759.60
33 14 13 13-0203 EA 48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,094.44 991.14 1,784.05 743.36	780.84
33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)		
33 14 13 13-0205 EA 4" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	131.31 5.11 9.19 3.83	52.95
33 14 13 13-0206 EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	179.99 9.55 17.20 7.16	55.75
33 14 13 13-0207 EA 6" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	186.96 8.05 14.49 6.04	70.25



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST
33 14 13 13-0208	EA		6" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	209.37 9.85 17.74 7.39	73.16
33 14 13 13-0209	EA		6" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	268.23 14.42 25.95 10.81	81.86
33 14 13 13-0210	EA		8" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	327.31 19.89 35.79 14.91	84.78
33 14 13 13-0211	EA		8" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	308.07 16.64 29.96 12.48	93.49
33 14 13 13-0212	EA		8" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	360.74 21.03 37.85 15.77	99.30
33 14 13 13-0213	EA		10" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	472.87 33.47 60.24 25.10	91.22
33 14 13 13-0214	EA		10" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	502.83 35.21 63.37 26.41	99.50
33 14 13 13-0215	EA		10" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	570.07 41.10 73.97 30.82	105.02
33 14 13 13-0216	EA		10" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	635.22 46.80 84.24 35.10	110.35
33 14 13 13-0217	EA		12" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	591.72 43.68 78.62 32.76	102.26
33 14 13 13-0218	EA		12" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	664.93 49.75 89.54 37.31	110.53
33 14 13 13-0219	EA		12" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	786.85 61.10 109.98 45.83	116.06

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0220	EA	12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	811.16	121.39
		For Cement Mortar Lining (CML), Add	62.72	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	112.90	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.04	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221	EA	12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	749.21	126.90
		For Cement Mortar Lining (CML), Add	55.69	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	100.25	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.77	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222	EA	14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	865.63	128.80
		For Cement Mortar Lining (CML), Add	67.05	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	120.69	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.29	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223	EA	14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	979.74	134.32
		For Cement Mortar Lining (CML), Add	77.62	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	139.72	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	58.22	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0224	EA	14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,249.17	139.65
		For Cement Mortar Lining (CML), Add	103.76	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	186.76	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	77.82	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0225	EA	14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	1,334.42	145.17
		For Cement Mortar Lining (CML), Add	111.45	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	200.61	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	83.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0226	EA	14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	1,314.62	154.29
		For Cement Mortar Lining (CML), Add	108.08	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	194.55	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	81.06	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0227	EA	16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	908.17	154.49
		For Cement Mortar Lining (CML), Add	67.41	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	121.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.56	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0228	EA	16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	991.04	160.01
		For Cement Mortar Lining (CML), Add	74.86	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	134.75	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.15	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0229	EA	16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,148.72	165.34
		For Cement Mortar Lining (CML), Add	89.82	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	161.68	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.37	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0230	EA	16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	1,273.03	170.85
		For Cement Mortar Lining (CML), Add	101.42	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	182.55	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.06	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0231	EA	16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	1,564.43	180.00
		For Cement Mortar Lining (CML), Add	129.17	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	232.51	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	96.88	
		Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0232	EA	16" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,525.02 123.28 221.91 92.46	192.83
33 14 13 13-0233	EA	18" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,391.22 109.17 196.50 81.87	197.72
33 14 13 13-0234	EA	18" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,489.71 118.18 212.72 88.63	203.23
33 14 13 13-0235	EA	18" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,584.90 126.89 228.40 95.17	208.57
33 14 13 13-0236	EA	18" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,688.19 136.38 245.49 102.29	214.09
33 14 13 13-0237	EA	18" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,712.84 137.46 247.43 103.10	223.21
33 14 13 13-0238	EA	18" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,739.51 138.18 248.73 103.64	236.06
33 14 13 13-0239	EA	18" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,626.87 123.65 222.56 92.73	257.68
33 14 13 13-0240	EA	20" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,692.47 126.29 227.32 94.72	283.53
33 14 13 13-0241	EA	20" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,729.07 129.11 232.40 96.83	289.05
33 14 13 13-0242	EA	20" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,878.94 143.29 257.92 107.47	294.38
33 14 13 13-0243	EA	20" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,027.89 157.35 283.23 118.01	299.90

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0244	EA	20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	2,053.73	309.02
		For Cement Mortar Lining (CML), Add	158.55	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	285.39	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	118.91	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245	EA	20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	2,085.82	321.87
		For Cement Mortar Lining (CML), Add	159.81	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	287.66	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	119.86	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246	EA	20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	2,391.32	343.48
		For Cement Mortar Lining (CML), Add	187.09	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	336.76	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	140.32	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247	EA	20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	2,318.15	386.39
		For Cement Mortar Lining (CML), Add	173.27	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	311.89	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	129.95	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0248	EA	24" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,078.62	369.07
		For Cement Mortar Lining (CML), Add	151.94	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	273.50	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	113.96	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0249	EA	24" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,106.22	374.60
		For Cement Mortar Lining (CML), Add	153.87	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	276.96	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	115.40	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0250	EA	24" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,313.15	379.92
		For Cement Mortar Lining (CML), Add	173.75	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	312.75	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	130.31	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0251	EA	24" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,410.43	385.45
		For Cement Mortar Lining (CML), Add	182.64	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	328.76	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	136.98	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0252	EA	24" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	2,739.08	394.57
		For Cement Mortar Lining (CML), Add	214.13	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	385.43	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	160.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0253	EA	24" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	3,016.29	407.42
		For Cement Mortar Lining (CML), Add	239.90	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	431.82	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	179.92	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0254	EA	24" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	3,351.85	429.04
		For Cement Mortar Lining (CML), Add	270.18	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	486.32	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	202.64	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0255	EA	24" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	3,683.01	471.94
		For Cement Mortar Lining (CML), Add	296.80	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	534.23	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	222.60	
		Note: ANSI/AWWA C151/A21.51		



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0256	EA	24" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,351.28 257.14 462.86 192.86	514.70
33 14 13 13-0257	EA	30" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,003.17 335.19 603.33 251.39	429.86
33 14 13 13-0258	EA	30" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,447.71 378.80 681.85 284.10	435.38
33 14 13 13-0259	EA	30" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,688.89 402.12 723.81 301.59	440.71
33 14 13 13-0260	EA	30" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,930.37 425.43 765.77 319.07	446.23
33 14 13 13-0261	EA	30" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,274.05 458.41 825.14 343.81	455.37
33 14 13 13-0262	EA	30" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,646.77 493.74 888.73 370.30	468.21
33 14 13 13-0263	EA	30" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,797.89 505.57 910.03 379.18	489.82
33 14 13 13-0264	EA	30" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,028.11 522.10 939.77 391.57	532.73
33 14 13 13-0265	EA	30" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,331.44 545.95 982.70 409.46	575.50
33 14 13 13-0266	EA	30" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,846.71 592.87 1,067.16 444.65	605.90
33 14 13 13-0267	EA	36" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,363.64 661.54 1,190.77 496.16	493.83

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0268	EA	36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	7,643.62	502.97
		For Cement Mortar Lining (CML), Add	688.16	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,238.68	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	516.12	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269	EA	36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	7,925.64	515.81
		For Cement Mortar Lining (CML), Add	714.41	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,285.94	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	535.81	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0270	EA	36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	8,467.26	537.42
		For Cement Mortar Lining (CML), Add	765.30	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,377.54	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	573.97	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0271	EA	36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	9,042.96	580.33
		For Cement Mortar Lining (CML), Add	816.37	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,469.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	612.28	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0272	EA	36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	10,013.17	623.10
		For Cement Mortar Lining (CML), Add	906.91	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,632.43	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	680.18	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0273	EA	36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	11,178.52	653.49
		For Cement Mortar Lining (CML), Add	1,018.84	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,833.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	764.13	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0274	EA	36" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	13,251.88	677.30
		For Cement Mortar Lining (CML), Add	1,222.57	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,200.62	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	916.93	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0275	EA	42" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	11,670.31	606.94
		For Cement Mortar Lining (CML), Add	1,075.07	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,935.13	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	806.30	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0276	EA	42" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	11,985.65	649.70
		For Cement Mortar Lining (CML), Add	1,100.13	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,980.23	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	825.09	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0277	EA	42" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	12,791.12	680.11
		For Cement Mortar Lining (CML), Add	1,176.07	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,116.92	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	882.05	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0278	EA	42" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	14,563.49	703.90
		For Cement Mortar Lining (CML), Add	1,349.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,429.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,012.27	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0279	EA	42" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	17,079.38	717.21
		For Cement Mortar Lining (CML), Add	1,599.27	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,878.69	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,199.45	
		Note: ANSI/AWWA C151/A21.51		



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 13-0280	EA 48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,556.72	649.33	
		1,057.29		
		1,903.12		
		792.97		
33 14 13 13-0281	EA 48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,051.42	692.10	
		1,200.28		
		2,160.50		
		900.21		
33 14 13 13-0282	EA 48" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,897.14	722.50	
		1,280.25		
		2,304.44		
		960.18		
33 14 13 13-0283	EA 48" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,774.65	746.30	
		1,464.39		
		2,635.90		
		1,098.29		
33 14 13 13-0284	EA 48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,438.99	759.60	
		1,928.81		
		3,471.85		
		1,446.61		
33 14 13 13-0285	EA 48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,393.67	780.81	
		2,121.06		
		3,817.92		
		1,590.80		
33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)				
33 14 13 13-0287	EA 3" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	173.22	63.17	
		7.75		
		13.95		
		5.81		
33 14 13 13-0288	EA 4" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	203.29	68.75	
		9.91		
		17.84		
		7.43		
33 14 13 13-0289	EA 4" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	231.15	69.68	
		12.56		
		22.60		
		9.42		
33 14 13 13-0290	EA 6" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	278.36	86.13	
		14.78		
		26.60		
		11.09		
33 14 13 13-0291	EA 6" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	277.75	92.90	
		13.70		
		24.66		
		10.27		
33 14 13 13-0292	EA 6" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	329.75	116.13	
		15.38		
		27.68		
		11.54		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0293 EA 8" x 4" Mechanical Joint Ductile Iron Cross	290.36	101.62
For Cement Mortar Lining (CML), Add	13.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0294 EA 8" x 6" Mechanical Joint Ductile Iron Cross	348.37	124.85
For Cement Mortar Lining (CML), Add	15.92	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0295 EA 8" x 8" Mechanical Joint Ductile Iron Cross	369.99	133.55
For Cement Mortar Lining (CML), Add	16.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0296 EA 10" x 4" Mechanical Joint Ductile Iron Cross.....	339.49	106.69
For Cement Mortar Lining (CML), Add	17.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0297 EA 10" x 6" Mechanical Joint Ductile Iron Cross.....	394.56	128.76
For Cement Mortar Lining (CML), Add	19.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0298 EA 10" x 8" Mechanical Joint Ductile Iron Cross.....	455.17	137.04
For Cement Mortar Lining (CML), Add	24.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0299 EA 10" x 10" Mechanical Joint Ductile Iron Cross.....	491.53	147.13
For Cement Mortar Lining (CML), Add	26.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0300 EA 12 x 4" Mechanical Joint Ductile Iron Cross.....	400.26	115.87
For Cement Mortar Lining (CML), Add	22.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0301 EA 12" x 6" Mechanical Joint Ductile Iron Cross.....	467.95	137.94
For Cement Mortar Lining (CML), Add	25.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0302 EA 12" x 8" Mechanical Joint Ductile Iron Cross.....	630.10	146.22
For Cement Mortar Lining (CML), Add	40.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0303 EA 12" x 10" Mechanical Joint Ductile Iron Cross.....	645.44	156.35
For Cement Mortar Lining (CML), Add	40.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0304 EA 12" x 12" Mechanical Joint Ductile Iron Cross.....	722.44	165.53
For Cement Mortar Lining (CML), Add	47.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.37	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0305	EA	14" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	724.95 49.51 89.11 37.13	151.72
33 14 13 13-0306	EA	14" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	837.23 59.48 107.06 44.61	160.01
33 14 13 13-0307	EA	14" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	864.59 60.68 109.23 45.51	170.14
33 14 13 13-0308	EA	14" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	912.14 64.05 115.28 48.03	179.32
33 14 13 13-0309	EA	14" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,004.54 71.20 128.15 53.40	193.12
33 14 13 13-0310	EA	16" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	826.90 56.78 102.20 42.58	171.03
33 14 13 13-0311	EA	16" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	927.76 65.61 118.09 49.21	179.32
33 14 13 13-0312	EA	16" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,088.84 80.18 144.33 60.14	189.43
33 14 13 13-0313	EA	16" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,202.74 90.18 162.32 67.64	198.62
33 14 13 13-0314	EA	16" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,429.10 110.73 199.31 83.05	212.41
33 14 13 13-0315	EA	16" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,658.41 130.73 235.32 98.05	231.75
33 14 13 13-0316	EA	18" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,298.33 99.19 178.55 74.39	202.24

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0317	EA	18" x 8" Mechanical Joint Ductile Iron Cross.....	1,369.77	210.52
		For Cement Mortar Lining (CML), Add	105.08	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	189.14	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	78.81	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0318	EA	18" x 10" Mechanical Joint Ductile Iron Cross.....	1,434.36	220.64
		For Cement Mortar Lining (CML), Add	110.01	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	198.01	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.50	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0319	EA	18" x 12" Mechanical Joint Ductile Iron Cross.....	1,546.81	229.82
		For Cement Mortar Lining (CML), Add	119.86	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	215.75	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.90	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0320	EA	18" x 14" Mechanical Joint Ductile Iron Cross.....	1,783.39	243.62
		For Cement Mortar Lining (CML), Add	141.43	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	254.57	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.07	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0321	EA	18" x 16" Mechanical Joint Ductile Iron Cross.....	1,901.55	262.91
		For Cement Mortar Lining (CML), Add	150.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	270.58	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	112.74	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0322	EA	18" x 18" Mechanical Joint Ductile Iron Cross.....	2,007.72	294.11
		For Cement Mortar Lining (CML), Add	156.21	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	281.17	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	117.16	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0323	EA	20" x 6" Mechanical Joint Ductile Iron Cross.....	1,631.73	253.75
		For Cement Mortar Lining (CML), Add	124.73	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	224.51	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	93.54	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0324	EA	20" x 8" Mechanical Joint Ductile Iron Cross.....	1,703.76	262.03
		For Cement Mortar Lining (CML), Add	130.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	235.21	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	98.01	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0325	EA	20" x 10" Mechanical Joint Ductile Iron Cross.....	1,758.15	272.15
		For Cement Mortar Lining (CML), Add	134.58	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	242.24	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.93	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0326	EA	20" x 12" Mechanical Joint Ductile Iron Cross.....	1,869.99	281.33
		For Cement Mortar Lining (CML), Add	144.37	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	259.87	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	108.28	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0327	EA	20" x 14" Mechanical Joint Ductile Iron Cross.....	1,910.70	295.13
		For Cement Mortar Lining (CML), Add	146.36	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	263.44	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	109.77	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0328	EA	20" x 16" Mechanical Joint Ductile Iron Cross.....	2,273.99	314.43
		For Cement Mortar Lining (CML), Add	179.76	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	323.57	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	134.82	
		Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0329	EA	20" x 18" Mechanical Joint Ductile Iron Cross	2,380.16	345.63
		For Cement Mortar Lining (CML), Add	185.65	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	334.16	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	139.24	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0330	EA	20" x 20" Mechanical Joint Ductile Iron Cross	2,595.79	397.11
		For Cement Mortar Lining (CML), Add	199.41	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	358.93	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	149.55	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0331	EA	24" x 6" Mechanical Joint Ductile Iron Cross	2,199.84	317.42
		For Cement Mortar Lining (CML), Add	171.89	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	309.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	128.92	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0332	EA	24" x 8" Mechanical Joint Ductile Iron Cross	2,252.29	325.71
		For Cement Mortar Lining (CML), Add	175.85	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	316.54	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	131.89	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0333	EA	24" x 10" Mechanical Joint Ductile Iron Cross	2,335.86	335.83
		For Cement Mortar Lining (CML), Add	182.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	328.87	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	137.03	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0334	EA	24" x 12" Mechanical Joint Ductile Iron Cross	2,408.66	345.02
		For Cement Mortar Lining (CML), Add	188.59	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	339.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	141.44	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0335	EA	24" x 14" Mechanical Joint Ductile Iron Cross	2,458.99	358.80
		For Cement Mortar Lining (CML), Add	191.54	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	344.76	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	143.65	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0336	EA	24" x 16" Mechanical Joint Ductile Iron Cross	2,557.32	378.10
		For Cement Mortar Lining (CML), Add	198.44	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	357.20	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	148.83	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0337	EA	24" x 18" Mechanical Joint Ductile Iron Cross	3,302.14	409.31
		For Cement Mortar Lining (CML), Add	268.20	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	482.75	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	201.15	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0338	EA	24" x 20" Mechanical Joint Ductile Iron Cross	3,507.55	460.81
		For Cement Mortar Lining (CML), Add	280.93	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	505.68	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	210.70	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0339	EA	24" x 24" Mechanical Joint Ductile Iron Cross	3,879.20	524.52
		For Cement Mortar Lining (CML), Add	308.45	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	555.21	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	231.34	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0340	EA	30" x 8" Mechanical Joint Ductile Iron Cross	4,046.63	422.06
		For Cement Mortar Lining (CML), Add	340.71	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	613.29	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	255.54	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0341	EA	30" x 10" Mechanical Joint Ductile Iron Cross.....	4,128.65	432.19
		For Cement Mortar Lining (CML), Add	347.38	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	625.29	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	260.54	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0342	EA	30" x 12" Mechanical Joint Ductile Iron Cross.....	4,208.65	441.37
		For Cement Mortar Lining (CML), Add	353.99	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	637.18	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	265.49	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0343	EA	30" x 14" Mechanical Joint Ductile Iron Cross.....	4,305.85	455.16
		For Cement Mortar Lining (CML), Add	361.62	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	650.92	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	271.22	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0344	EA	30" x 16" Mechanical Joint Ductile Iron Cross.....	4,420.40	474.45
		For Cement Mortar Lining (CML), Add	370.15	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	666.28	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	277.61	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0345	EA	30" x 18" Mechanical Joint Ductile Iron Cross.....	4,562.62	505.67
		For Cement Mortar Lining (CML), Add	379.65	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	683.36	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	284.73	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0346	EA	30" x 20" Mechanical Joint Ductile Iron Cross.....	4,754.22	557.17
		For Cement Mortar Lining (CML), Add	391.00	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	703.80	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	293.25	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0347	EA	30" x 24" Mechanical Joint Ductile Iron Cross.....	6,028.86	620.85
		For Cement Mortar Lining (CML), Add	508.82	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	915.87	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	381.61	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0348	EA	30" x 30" Mechanical Joint Ductile Iron Cross.....	6,935.46	717.22
		For Cement Mortar Lining (CML), Add	584.88	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,052.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	438.66	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0349	EA	36" x 8" Mechanical Joint Ductile Iron Cross.....	5,533.96	457.58
		For Cement Mortar Lining (CML), Add	484.07	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	871.32	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	363.05	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0350	EA	36" x 10" Mechanical Joint Ductile Iron Cross.....	5,615.36	467.70
		For Cement Mortar Lining (CML), Add	490.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	883.21	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	368.00	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0351	EA	36" x 12" Mechanical Joint Ductile Iron Cross.....	5,685.77	476.89
		For Cement Mortar Lining (CML), Add	496.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	893.38	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	372.24	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0352	EA	36" x 14" Mechanical Joint Ductile Iron Cross.....	5,772.74	490.67
		For Cement Mortar Lining (CML), Add	502.93	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	905.27	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	377.20	
		Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0353	EA	36" x 16" Mechanical Joint Ductile Iron Cross	5,877.68	509.97
		For Cement Mortar Lining (CML), Add	510.50	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	918.90	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	382.88	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0354	EA	36" x 18" Mechanical Joint Ductile Iron Cross	6,009.68	541.18
		For Cement Mortar Lining (CML), Add	518.97	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	934.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	389.23	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0355	EA	36" x 20" Mechanical Joint Ductile Iron Cross	6,191.67	592.69
		For Cement Mortar Lining (CML), Add	529.37	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	952.86	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	397.02	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0356	EA	36" x 24" Mechanical Joint Ductile Iron Cross	6,486.40	656.37
		For Cement Mortar Lining (CML), Add	549.19	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	988.54	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	411.89	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0357	EA	36" x 30" Mechanical Joint Ductile Iron Cross	8,623.45	752.72
		For Cement Mortar Lining (CML), Add	748.30	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,346.93	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	561.22	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0358	EA	36" x 36" Mechanical Joint Ductile Iron Cross	9,441.49	788.27
		For Cement Mortar Lining (CML), Add	824.72	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,484.49	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	618.54	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0359	EA	42" x 12" Mechanical Joint Ductile Iron Cross	7,327.02	497.42
		For Cement Mortar Lining (CML), Add	657.34	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,183.20	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	493.00	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0360	EA	42" x 14" Mechanical Joint Ductile Iron Cross	8,240.55	511.21
		For Cement Mortar Lining (CML), Add	746.60	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,343.88	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	559.95	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0361	EA	42" x 16" Mechanical Joint Ductile Iron Cross	7,512.33	530.50
		For Cement Mortar Lining (CML), Add	670.85	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,207.54	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	503.14	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0362	EA	42" x 18" Mechanical Joint Ductile Iron Cross	7,632.32	561.72
		For Cement Mortar Lining (CML), Add	678.12	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,220.62	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	508.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0363	EA	42" x 20" Mechanical Joint Ductile Iron Cross	7,809.50	613.23
		For Cement Mortar Lining (CML), Add	688.04	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,238.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	516.03	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0364	EA	42" x 24" Mechanical Joint Ductile Iron Cross	8,086.81	676.90
		For Cement Mortar Lining (CML), Add	706.12	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,271.02	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	529.59	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0365 EA 42" x 30" Mechanical Joint Ductile Iron Cross.....	10,273.12	773.26
For Cement Mortar Lining (CML), Add	910.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,638.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	682.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0366 EA 42" x 36" Mechanical Joint Ductile Iron Cross.....	13,243.82	808.77
For Cement Mortar Lining (CML), Add	1,201.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,163.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	901.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0367 EA 42" x 42" Mechanical Joint Ductile Iron Cross.....	14,159.31	829.33
For Cement Mortar Lining (CML), Add	1,290.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,322.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	967.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0368 EA 48" x 12" Mechanical Joint Ductile Iron Cross.....	9,825.53	578.96
For Cement Mortar Lining (CML), Add	894.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,610.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	671.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0369 EA 48" x 14" Mechanical Joint Ductile Iron Cross.....	9,900.50	592.75
For Cement Mortar Lining (CML), Add	900.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,620.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	675.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0370 EA 48" x 16" Mechanical Joint Ductile Iron Cross.....	10,001.83	612.04
For Cement Mortar Lining (CML), Add	907.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,633.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	680.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0371 EA 48" x 18" Mechanical Joint Ductile Iron Cross.....	10,121.21	643.26
For Cement Mortar Lining (CML), Add	914.66	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,646.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	685.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0372 EA 48" x 20" Mechanical Joint Ductile Iron Cross.....	10,289.98	694.77
For Cement Mortar Lining (CML), Add	923.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,662.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	692.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0373 EA 48" x 24" Mechanical Joint Ductile Iron Cross.....	10,557.69	758.44
For Cement Mortar Lining (CML), Add	940.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,693.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	705.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0374 EA 48" x 30" Mechanical Joint Ductile Iron Cross.....	11,218.56	854.80
For Cement Mortar Lining (CML), Add	992.34	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,786.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	744.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0375 EA 48" x 36" Mechanical Joint Ductile Iron Cross.....	13,610.69	890.31
For Cement Mortar Lining (CML), Add	1,226.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,207.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	919.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0376 EA 48" x 42" Mechanical Joint Ductile Iron Cross.....	17,298.88	910.85
For Cement Mortar Lining (CML), Add	1,591.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,865.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,193.91	
Note: ANSI/AWWA C151/A21.51		



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0377	EA	48" x 48" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,442.58 1,693.90 3,049.01 1,270.42	992.35
33 14 13 13-0378		Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)		
33 14 13 13-0379	EA	4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	86.94 3.49 6.27 2.61	34.37
33 14 13 13-0380	EA	6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	103.73 3.85 6.92 2.88	43.08
33 14 13 13-0381	EA	6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	111.56 4.21 7.57 3.15	45.87
33 14 13 13-0382	EA	8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	136.07 5.77 10.38 4.33	51.68
33 14 13 13-0383	EA	8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	152.77 6.13 11.03 4.60	60.38
33 14 13 13-0384	EA	10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	157.59 7.51 13.52 5.63	54.44
33 14 13 13-0385	EA	10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	174.33 7.93 14.28 5.95	62.72
33 14 13 13-0386	EA	10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	190.51 8.71 15.68 6.53	68.23
33 14 13 13-0387	EA	12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	185.77 9.49 17.09 7.12	59.96
33 14 13 13-0388	EA	12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	207.92 10.45 18.82 7.84	68.23
33 14 13 13-0389	EA	12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	219.29 10.75 19.36 8.07	73.75

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	238.79	79.09
For Cement Mortar Lining (CML), Add	11.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	21.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	349.12	77.37
For Cement Mortar Lining (CML), Add	23.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	345.48	82.89
For Cement Mortar Lining (CML), Add	21.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.49	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	321.11	88.21
For Cement Mortar Lining (CML), Add	18.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	338.48	93.74
For Cement Mortar Lining (CML), Add	19.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	409.44	90.20
For Cement Mortar Lining (CML), Add	27.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	49.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	407.60	95.74
For Cement Mortar Lining (CML), Add	26.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	47.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.69	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	406.07	101.06
For Cement Mortar Lining (CML), Add	25.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	437.85	106.58
For Cement Mortar Lining (CML), Add	27.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	49.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	484.73	115.71
For Cement Mortar Lining (CML), Add	30.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	55.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	514.84	117.34
For Cement Mortar Lining (CML), Add	33.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	60.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	569.78	122.68
For Cement Mortar Lining (CML), Add	38.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	69.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.79	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0402	EA	18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	557.71	128.19
		For Cement Mortar Lining (CML), Add	36.35	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	65.43	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.26	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0403	EA	18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	592.57	137.33
		For Cement Mortar Lining (CML), Add	38.45	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	69.21	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.84	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0404	EA	18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	628.86	150.17
		For Cement Mortar Lining (CML), Add	40.13	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	72.24	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.10	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0405	EA	20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	722.24	160.25
		For Cement Mortar Lining (CML), Add	47.94	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	86.30	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.96	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0406	EA	20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	702.67	165.58
		For Cement Mortar Lining (CML), Add	45.18	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	81.32	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.89	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0407	EA	20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	663.58	171.10
		For Cement Mortar Lining (CML), Add	40.43	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	72.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.33	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0408	EA	20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	674.41	180.23
		For Cement Mortar Lining (CML), Add	40.13	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	72.24	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.10	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0409	EA	20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	702.28	193.07
		For Cement Mortar Lining (CML), Add	40.98	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	73.76	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.73	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0410	EA	20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	828.16	214.68
		For Cement Mortar Lining (CML), Add	50.29	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	90.52	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.72	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411	EA	24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	943.46	213.87
		For Cement Mortar Lining (CML), Add	61.94	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	111.50	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.46	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412	EA	24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	972.93	223.01
		For Cement Mortar Lining (CML), Add	63.51	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	114.31	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.63	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413	EA	24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,000.81	235.85
		For Cement Mortar Lining (CML), Add	64.35	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	115.82	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.26	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,005.31	257.46
For Cement Mortar Lining (CML), Add	61.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	110.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,216.91	300.37
For Cement Mortar Lining (CML), Add	76.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	137.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	57.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,800.26	266.25
For Cement Mortar Lining (CML), Add	139.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	251.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	104.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,888.28	287.85
For Cement Mortar Lining (CML), Add	145.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	261.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	108.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0418 EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,872.78	330.76
For Cement Mortar Lining (CML), Add	137.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	246.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	102.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0419 EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,872.10	373.54
For Cement Mortar Lining (CML), Add	130.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	235.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	97.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0420 EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,662.24	354.56
For Cement Mortar Lining (CML), Add	212.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	382.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	159.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421 EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,289.07	397.33
For Cement Mortar Lining (CML), Add	168.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	303.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	126.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0422 EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,482.92	427.73
For Cement Mortar Lining (CML), Add	183.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	330.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	137.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0423 EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,329.04	303.35
For Cement Mortar Lining (CML), Add	286.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	516.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	215.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0424 EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,335.35	324.96
For Cement Mortar Lining (CML), Add	284.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	511.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	213.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0425 EA 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,390.74	367.87
For Cement Mortar Lining (CML), Add	283.34	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	510.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	212.50	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0426	EA	42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,784.19	410.64
		For Cement Mortar Lining (CML), Add	316.20	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	569.16	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	237.15	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0427	EA	42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,206.62	441.03
		For Cement Mortar Lining (CML), Add	253.84	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	456.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	190.38	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0428	EA	42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,359.23	464.83
		For Cement Mortar Lining (CML), Add	265.49	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	477.89	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	199.12	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0429	EA	48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,414.95	324.55
		For Cement Mortar Lining (CML), Add	392.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	706.18	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	294.24	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0430	EA	48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,307.12	346.16
		For Cement Mortar Lining (CML), Add	378.26	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	680.88	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	283.70	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0431	EA	48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,155.84	389.06
		For Cement Mortar Lining (CML), Add	356.64	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	641.94	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	267.48	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0432	EA	48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,311.36	431.84
		For Cement Mortar Lining (CML), Add	365.71	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	658.27	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	274.28	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0433	EA	48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,106.62	462.23
		For Cement Mortar Lining (CML), Add	440.63	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	793.13	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	330.47	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0434	EA	48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,541.28	486.03
		For Cement Mortar Lining (CML), Add	380.49	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	684.88	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	285.37	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0435	EA	48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,956.75	499.33
		For Cement Mortar Lining (CML), Add	420.02	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	756.03	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	315.01	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0436		Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)		
33 14 13 13-0437	EA	3" Mechanical Joint Ductile Iron Caps	125.59	72.58
		For Cement Mortar Lining (CML), Add	1.56	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2.81	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.17	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0438	EA	4" Mechanical Joint Ductile Iron Caps	145.26	85.17
		For Cement Mortar Lining (CML), Add	1.62	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2.92	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.22	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0439 EA 6" Mechanical Joint Ductile Iron Caps.....	190.13	106.45
For Cement Mortar Lining (CML), Add	2.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440 EA 8" Mechanical Joint Ductile Iron Caps.....	232.39	121.68
For Cement Mortar Lining (CML), Add	4.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	8.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0441 EA 10" Mechanical Joint Ductile Iron Caps.....	339.35	183.93
For Cement Mortar Lining (CML), Add	6.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	10.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442 EA 12" Mechanical Joint Ductile Iron Caps.....	394.73	200.64
For Cement Mortar Lining (CML), Add	9.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0443 EA 14" Mechanical Joint Ductile Iron Caps.....	471.99	220.71
For Cement Mortar Lining (CML), Add	13.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0444 EA 16" Mechanical Joint Ductile Iron Caps.....	556.01	245.21
For Cement Mortar Lining (CML), Add	18.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0445 EA 18" Mechanical Joint Ductile Iron Caps.....	643.30	275.89
For Cement Mortar Lining (CML), Add	22.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0446 EA 20" Mechanical Joint Ductile Iron Caps.....	769.11	315.26
For Cement Mortar Lining (CML), Add	29.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	52.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0447 EA 24" Mechanical Joint Ductile Iron Caps.....	957.47	367.84
For Cement Mortar Lining (CML), Add	40.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.01	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0448 EA 30" Mechanical Joint Ductile Iron Caps.....	1,583.83	441.41
For Cement Mortar Lining (CML), Add	91.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	164.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0449 EA 36" Mechanical Joint Ductile Iron Caps.....	2,500.23	551.77
For Cement Mortar Lining (CML), Add	166.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	299.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	124.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0450 EA 42" Mechanical Joint Ductile Iron Caps.....	3,527.18	662.12
For Cement Mortar Lining (CML), Add	252.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	454.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	189.30	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0451 EA 48" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,155.93 304.13 547.43 228.09	735.69
33 14 13 13-0452 Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)		
33 14 13 13-0453 EA 3" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	127.99 1.80 3.24 1.35	72.58
33 14 13 13-0454 EA 4" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	148.87 1.98 3.57 1.49	85.17
33 14 13 13-0455 EA 6" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	199.74 3.85 6.92 2.88	106.45
33 14 13 13-0456 EA 8" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	242.01 5.77 10.38 4.33	121.68
33 14 13 13-0457 EA 10" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	378.40 9.97 17.95 7.48	183.93
33 14 13 13-0458 EA 12" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	405.55 10.15 18.28 7.62	200.64
33 14 13 13-0459 EA 14" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	541.09 20.67 37.20 15.50	220.71
33 14 13 13-0460 EA 16" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	398.00 2.64 4.76 1.98	245.21
33 14 13 13-0461 EA 18" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	746.04 32.80 59.05 24.60	275.89
33 14 13 13-0462 EA 20" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	909.09 43.14 77.65 32.35	315.26
33 14 13 13-0463 EA 24" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,155.74 59.84 107.71 44.88	367.84

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug.....	1,856.59	441.41
For Cement Mortar Lining (CML), Add	118.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	213.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug.....	2,670.85	551.77
For Cement Mortar Lining (CML), Add	183.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	330.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	137.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug.....	3,548.81	662.12
For Cement Mortar Lining (CML), Add	254.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	458.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	190.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug.....	4,508.00	735.69
For Cement Mortar Lining (CML), Add	339.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	610.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	254.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0468 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)		
33 14 13 13-0469 EA 3" Mechanical Joint Ductile Iron Long Sleeves	200.20	110.32
For Cement Mortar Lining (CML), Add	3.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470 EA 4" Mechanical Joint Ductile Iron Long Sleeves	232.60	127.74
For Cement Mortar Lining (CML), Add	3.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	7.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0471 EA 6" Mechanical Joint Ductile Iron Long Sleeves	307.43	159.67
For Cement Mortar Lining (CML), Add	6.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472 EA 8" Mechanical Joint Ductile Iron Long Sleeves	384.04	182.46
For Cement Mortar Lining (CML), Add	10.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473 EA 10" Mechanical Joint Ductile Iron Long Sleeves	545.97	275.89
For Cement Mortar Lining (CML), Add	12.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	23.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474 EA 12" Mechanical Joint Ductile Iron Long Sleeves	629.03	300.96
For Cement Mortar Lining (CML), Add	17.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	31.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475 EA 14" Mechanical Joint Ductile Iron Long Sleeves	762.95	331.06
For Cement Mortar Lining (CML), Add	26.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	47.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476 EA 16" Mechanical Joint Ductile Iron Long Sleeves	888.38	367.84
For Cement Mortar Lining (CML), Add	33.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	59.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.83	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0477 EA 18" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,050.57 42.36 76.24 31.77	413.83
33 14 13 13-0478 EA 20" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,227.86 51.13 92.03 38.35	472.93
33 14 13 13-0479 EA 24" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,509.51 67.35 121.23 50.51	551.77
33 14 13 13-0480 EA 30" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,413.90 141.07 253.92 105.80	662.12
33 14 13 13-0481 EA 36" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,234.86 198.08 356.55 148.56	827.65
33 14 13 13-0482 EA 42" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,081.06 264.95 476.92 198.71	944.77
33 14 13 13-0483 EA 48" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,393.99 372.20 669.95 279.15	1,103.53
33 14 13 13-0484 Mechanical Joint Ductile Iron Gland Packs (33 14 13 13-0002) Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0485 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0484) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0486 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	12.02	
33 14 13 13-0487 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	25.63	
33 14 13 13-0488 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	30.97	
33 14 13 13-0489 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	36.31	
33 14 13 13-0490 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	50.20	
33 14 13 13-0491 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	53.40	
33 14 13 13-0492 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	87.58	
33 14 13 13-0493 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	92.92	
33 14 13 13-0494 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	123.90	
33 14 13 13-0495 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	160.21	
33 14 13 13-0496 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	223.23	
33 14 13 13-0497 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	532.97	
33 14 13 13-0498 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	1,149.25	
33 14 13 13-0499 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	1,677.95	
33 14 13 13-0500 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	2,059.26	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0501	EA	54" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,766.33		
Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.					
33 14 13 13-0502		Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts (33 14 13 13-0484)			
Note: Labor installation is included with pipe fittings or valves.					
33 14 13 13-0503	EA	3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	20.43		
33 14 13 13-0504	EA	4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	36.31		
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0505	EA	6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	45.93		
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0506	EA	8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	50.20		
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0507	EA	10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	69.43		
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0508	EA	12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	72.63		
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0509	EA	14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	110.01		
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0510	EA	16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	120.69		
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0511	EA	18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	160.21		
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0512	EA	20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	207.21		
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0513	EA	24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	289.45		
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0514		Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0484)			
Note: Labor installation is included with pipe fittings or valves.					
33 14 13 13-0515	EA	3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	13.22		
33 14 13 13-0516	EA	4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	27.77		
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0517	EA	6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	33.11		
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0518	EA	8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	39.52		
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0519	EA	10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	54.47		
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0520	EA	12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	57.68		
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0521	EA	14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	95.06		
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0522	EA	16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	100.40		
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0523	EA	18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	135.65		
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0524	EA	20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	174.10		
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0525	EA	24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	243.52		
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.					
33 14 13 13-0526	EA	30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	583.17		
Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.					
33 14 13 13-0527	EA	36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	1,292.38		
Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.					
33 14 13 13-0528	EA	42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	1,871.28		
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.					
33 14 13 13-0529	EA	48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,302.78		
Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.					
33 14 13 13-0530	EA	54" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,826.14		
Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.					
33 14 13 13-0531		Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)			
33 14 13 13-0532	EA	3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	206.21	110.32	
For Cement Mortar Lining (CML), Add				3.91	
Note: ANSI/AWWA C104/A21.4					
For Fusion Bonded Epoxy Lining (206N), Add				7.03	
Note: ANSI/AWWA C104/A21.4					
For Bituminous Or Coal Tar Coating, 1 Mil, Add				2.93	
Note: ANSI/AWWA C151/A21.51					
33 14 13 13-0533	EA	4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	235.61	127.74	
For Cement Mortar Lining (CML), Add				4.21	
Note: ANSI/AWWA C104/A21.4					
For Fusion Bonded Epoxy Lining (206N), Add				7.57	
Note: ANSI/AWWA C104/A21.4					
For Bituminous Or Coal Tar Coating, 1 Mil, Add				3.15	
Note: ANSI/AWWA C151/A21.51					



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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 13-0534	EA	6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	300.22	159.67
		For Cement Mortar Lining (CML), Add	5.83	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	10.49	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.37	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0535	EA	8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	364.82	182.46
		For Cement Mortar Lining (CML), Add	8.83	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	15.90	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.62	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0536	EA	10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	571.80	275.89
		For Cement Mortar Lining (CML), Add	15.38	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	27.68	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.54	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0537	EA	12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	653.06	300.96
		For Cement Mortar Lining (CML), Add	19.71	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	35.47	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.78	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0538	EA	14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	814.62	331.06
		For Cement Mortar Lining (CML), Add	31.30	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	56.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.48	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0539	EA	16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	914.82	367.84
		For Cement Mortar Lining (CML), Add	35.75	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	64.35	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.81	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0540	EA	18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,173.74	413.83
		For Cement Mortar Lining (CML), Add	54.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	98.41	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.00	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0541	EA	20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,367.85	472.93
		For Cement Mortar Lining (CML), Add	65.13	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	117.23	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.85	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0542	EA	24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,638.08	551.77
		For Cement Mortar Lining (CML), Add	80.21	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	144.37	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.16	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0543	EA	30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,479.39	662.12
		For Cement Mortar Lining (CML), Add	147.62	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	265.71	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.71	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0544	EA	36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,369.44	827.65
		For Cement Mortar Lining (CML), Add	211.54	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	380.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	158.66	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0545	EA	42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	4,382.50	945.86
		For Cement Mortar Lining (CML), Add	294.93	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	530.88	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	221.20	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0546 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,365.75 369.37 664.87 277.03	1,103.53
33 14 13 13-0547 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) (33 14 13 13-0002) Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-0548 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	137.49	55.34
33 14 13 13-0549 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	157.59	65.54
33 14 13 13-0550 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	195.43	81.11
33 14 13 13-0551 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	241.84	94.66
33 14 13 13-0552 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	349.70	137.94
33 14 13 13-0553 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	427.46	157.67
33 14 13 13-0554 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	493.69	169.71
33 14 13 13-0555 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	600.94	183.93
33 14 13 13-0556 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	766.60	220.71
33 14 13 13-0557 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	900.30	245.12
33 14 13 13-0558 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,158.69	282.83
33 14 13 13-0559 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	2,187.54	339.18
33 14 13 13-0560 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	2,703.01	424.45
33 14 13 13-0561 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	3,948.94	489.73
33 14 13 13-0562 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	5,057.86	629.85
33 14 13 13-0563 Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) (33 14 13 13-0002)		
33 14 13 13-0564 EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	2,596.78	45.29
33 14 13 13-0565 EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	2,706.64	56.61
33 14 13 13-0566 EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	3,927.69	83.67
33 14 13 13-0567 EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	5,333.87	99.23
33 14 13 13-0568 EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	6,719.16	110.10
33 14 13 13-0569 EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	8,956.82	129.16
33 14 13 13-0570 EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	11,029.65	144.84
33 14 13 13-0571 EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	13,046.94	165.53
33 14 13 13-0572 EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	14,722.21	231.75
33 14 13 13-0573 EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	19,799.65	289.68
33 14 13 13-0574 EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	27,430.38	386.24
33 14 13 13-0575 Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) (33 14 13 13-0002) Note: Includes machined bolts and gasket.		
33 14 13 13-0576 EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	136.62	55.34
33 14 13 13-0577 EA 4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	173.65	65.54
33 14 13 13-0578 EA 6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	223.29	81.11
33 14 13 13-0579 EA 8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	255.50	94.66
33 14 13 13-0580 EA 10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	442.11	145.17
33 14 13 13-0581 EA 12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	500.86	165.92
33 14 13 13-0582 Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) (33 14 13 13-0002) Note: Includes nuts, bolts and gasket.		
33 14 13 13-0583 EA 3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2103000).....	191.19	55.34
33 14 13 13-0584 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	236.79	65.54
33 14 13 13-0585 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	324.81	81.11
33 14 13 13-0586 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	462.51	94.66
33 14 13 13-0587 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	672.59	145.17
33 14 13 13-0588 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	831.68	165.92
33 14 13 13-0589 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	1,257.27	178.59
33 14 13 13-0590 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	1,744.16	193.55
33 14 13 13-0591 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	1,976.95	232.26
33 14 13 13-0592 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	2,184.25	257.95
33 14 13 13-0593 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	2,637.88	297.63
33 14 13 13-0594 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	3,385.61	356.92
33 14 13 13-0595 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	5,029.66	446.66
33 14 13 13-0596 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	12,915.16	515.36
33 14 13 13-0597 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	16,543.32	662.81
33 14 13 13-0598 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping (33 14 13 13-0001) Note: . See CSI section 33 14 13 13-0484 for bolts and gaskets.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0599 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0598)		
33 14 13 13-0600 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	175.83	31.58
33 14 13 13-0601 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	210.39	37.83
33 14 13 13-0602 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	324.18	55.43
33 14 13 13-0603 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	434.93	65.99
33 14 13 13-0604 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	582.21	73.57
33 14 13 13-0605 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	732.41	86.11
33 14 13 13-0606 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,019.86	96.98
33 14 13 13-0607 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,231.82	110.35
33 14 13 13-0608 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,505.94	154.67
33 14 13 13-0609 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,877.50	193.12
33 14 13 13-0610 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,641.49	257.49
33 14 13 13-0611 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,117.13	275.89
33 14 13 13-0612 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,964.87	286.76
33 14 13 13-0613 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	9,711.26	331.06
33 14 13 13-0614 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	12,636.74	351.96
33 14 13 13-0615 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0598)		
33 14 13 13-0616 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	169.22	31.58
33 14 13 13-0617 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	198.98	37.83
33 14 13 13-0618 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	304.35	55.43
33 14 13 13-0619 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	404.28	65.99
33 14 13 13-0620 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	517.32	73.57
33 14 13 13-0621 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	674.13	86.11
33 14 13 13-0622 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	894.90	96.98
33 14 13 13-0623 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,067.20	110.35
33 14 13 13-0624 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,281.85	154.67
33 14 13 13-0625 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,560.88	193.12
33 14 13 13-0626 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,059.31	257.49
33 14 13 13-0627 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,626.27	275.89
33 14 13 13-0628 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,935.70	286.76
33 14 13 13-0629 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	7,256.39	331.06
33 14 13 13-0630 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	9,230.20	351.96
33 14 13 13-0631 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0598)		
33 14 13 13-0632 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	137.38	31.58
33 14 13 13-0633 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	197.18	37.83
33 14 13 13-0634 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	297.14	55.43
33 14 13 13-0635 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	401.88	65.99
33 14 13 13-0636 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	516.72	73.57
33 14 13 13-0637 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	639.29	86.11
33 14 13 13-0638 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	899.70	96.98
33 14 13 13-0639 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,045.57	110.35
33 14 13 13-0640 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,276.44	154.67
33 14 13 13-0641 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,610.75	193.12
33 14 13 13-0642 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,019.66	257.49
33 14 13 13-0643 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,251.97	275.89
33 14 13 13-0644 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,364.94	286.76
33 14 13 13-0645 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	6,181.56	331.06
33 14 13 13-0646 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	7,856.17	351.96
33 14 13 13-0647 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0598)		
33 14 13 13-0648 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	137.38	31.58
33 14 13 13-0649 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	230.22	37.83
33 14 13 13-0650 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	299.55	55.43
33 14 13 13-0651 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	391.07	65.99
33 14 13 13-0652 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	515.52	73.57
33 14 13 13-0653 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	623.07	86.11
33 14 13 13-0654 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	962.79	96.98
33 14 13 13-0655 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,075.01	110.35
33 14 13 13-0656 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,447.07	154.67
33 14 13 13-0657 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,559.08	193.12
33 14 13 13-0658 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,020.26	257.49
33 14 13 13-0659 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,291.63	275.89
33 14 13 13-0660 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,251.39	286.76
33 14 13 13-0661 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	6,019.35	331.06
33 14 13 13-0662 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	7,812.91	351.96
33 14 13 13-0663 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0598)		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0664	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	157.21	31.58	
33 14 13 13-0665	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	224.21	37.83	
33 14 13 13-0666	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	347.01	55.43	
33 14 13 13-0667	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	463.76	65.99	
33 14 13 13-0668	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	624.26	73.57	
33 14 13 13-0669	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	778.67	86.11	
33 14 13 13-0670	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,352.11	96.98	
33 14 13 13-0671	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	2,077.14	110.35	
33 14 13 13-0672	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	2,396.93	154.67	
33 14 13 13-0673	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	2,775.10	193.12	
33 14 13 13-0674	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	3,040.42	257.49	
33 14 13 13-0675 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0598)					
33 14 13 13-0676	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	157.21	31.58	
33 14 13 13-0677	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	201.38	37.83	
33 14 13 13-0678	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	313.97	55.43	
33 14 13 13-0679	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	433.72	65.99	
33 14 13 13-0680	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	563.60	73.57	
33 14 13 13-0681	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	725.80	86.11	
33 14 13 13-0682	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	952.56	96.98	
33 14 13 13-0683	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,139.90	110.35	
33 14 13 13-0684	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,090.51	154.67	
33 14 13 13-0685	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,218.75	193.12	
33 14 13 13-0686	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,356.70	257.49	
33 14 13 13-0687 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee (33 14 13 13-0598)					
33 14 13 13-0688	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	223.78	47.38	
33 14 13 13-0689	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	245.55	53.42	
33 14 13 13-0690	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	258.69	55.43	
33 14 13 13-0691	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	361.19	70.25	
33 14 13 13-0692	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	389.01	73.02	
33 14 13 13-0693	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	414.23	81.82	
33 14 13 13-0694	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	473.31	84.46	
33 14 13 13-0695	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	513.55	93.26	
33 14 13 13-0696	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	562.01	99.41	
33 14 13 13-0697	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	617.06	91.12	
33 14 13 13-0698	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	622.99	99.49	
33 14 13 13-0699	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	672.80	105.33	
33 14 13 13-0700	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	723.54	110.35	
33 14 13 13-0701	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	736.51	101.99	
33 14 13 13-0702	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	749.04	110.35	
33 14 13 13-0703	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	807.28	116.20	
33 14 13 13-0704	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	920.50	121.22	
33 14 13 13-0705	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	927.05	127.07	
33 14 13 13-0706	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,038.06	128.74	
33 14 13 13-0707	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,119.13	134.59	
33 14 13 13-0708	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,339.29	139.61	
33 14 13 13-0709	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,411.93	145.46	
33 14 13 13-0710	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,324.24	154.67	
33 14 13 13-0711	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,242.14	154.67	
33 14 13 13-0712	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,307.06	159.68	
33 14 13 13-0713	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,546.45	165.53	
33 14 13 13-0714	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,463.48	170.54	
33 14 13 13-0715	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,874.44	179.74	
33 14 13 13-0716	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,720.28	193.12	
33 14 13 13-0717	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,626.74	198.14	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0718 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,711.41	203.15
33 14 13 13-0719 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,817.41	208.17
33 14 13 13-0720 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,915.89	214.02
33 14 13 13-0721 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,971.18	223.21
33 14 13 13-0722 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,104.20	235.75
33 14 13 13-0723 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,344.22	257.49
33 14 13 13-0724 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,915.97	283.41
33 14 13 13-0725 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,948.96	289.26
33 14 13 13-0726 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,122.86	294.28
33 14 13 13-0727 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,220.14	300.13
33 14 13 13-0728 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,247.19	309.32
33 14 13 13-0729 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,232.41	321.86
33 14 13 13-0730 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,798.66	343.60
33 14 13 13-0731 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,462.34	386.24
33 14 13 13-0732 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,345.98	368.68
33 14 13 13-0733 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,369.97	375.37
33 14 13 13-0734 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,411.68	379.55
33 14 13 13-0735 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,471.71	385.40
33 14 13 13-0736 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,775.73	394.60
33 14 13 13-0737 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,891.93	407.14
33 14 13 13-0738 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,500.25	428.87
33 14 13 13-0739 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,637.35	472.34
33 14 13 13-0740 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,470.84	514.99
33 14 13 13-0741 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,930.48	429.71
33 14 13 13-0742 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,763.40	435.56
33 14 13 13-0743 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,961.93	440.58
33 14 13 13-0744 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,161.35	446.43
33 14 13 13-0745 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,445.55	455.63
33 14 13 13-0746 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,754.59	606.11
33 14 13 13-0747 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,752.50	489.90
33 14 13 13-0748 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,782.05	532.54
33 14 13 13-0749 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,998.87	575.18
33 14 13 13-0750 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,901.66	606.11
33 14 13 13-0751 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,088.46	483.21
33 14 13 13-0752 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,532.72	488.23
33 14 13 13-0753 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,774.79	494.08
33 14 13 13-0754 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,950.24	503.28
33 14 13 13-0755 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,129.52	515.82
33 14 13 13-0756 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,472.27	537.55
33 14 13 13-0757 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,847.91	580.19
33 14 13 13-0758 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,463.64	622.82
33 14 13 13-0759 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,259.50	677.17
33 14 13 13-0760 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,303.69	677.17
33 14 13 13-0761 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,253.82	520.83
33 14 13 13-0762 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,438.88	529.20
33 14 13 13-0763 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,348.73	542.57
33 14 13 13-0764 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,752.50	564.31
33 14 13 13-0765 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,817.50	606.95
33 14 13 13-0766 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,893.66	649.58
33 14 13 13-0767 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,085.72	680.51
33 14 13 13-0768 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,384.39	703.92
33 14 13 13-0769 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,034.19	717.30
33 14 13 13-0770 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,756.37	562.63
33 14 13 13-0771 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,948.64	571.83
33 14 13 13-0772 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,221.64	585.21
33 14 13 13-0773 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,506.13	606.11
33 14 13 13-0774 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,824.68	649.58
33 14 13 13-0775 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,923.12	692.22
33 14 13 13-0776 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,785.66	722.32
33 14 13 13-0777 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,414.31	746.56
33 14 13 13-0778 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,919.38	759.93
33 14 13 13-0779 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,027.93	780.84

33 14 13 13-0780

Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0598)

33 14 13 13-0781 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	250.87	52.95
33 14 13 13-0782 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	271.90	52.95
33 14 13 13-0783 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	313.97	55.43
33 14 13 13-0784 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	353.38	70.25
33 14 13 13-0785 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	390.21	73.02
33 14 13 13-0786 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	471.30	81.82
33 14 13 13-0787 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	601.28	84.46
33 14 13 13-0788 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	566.42	93.26
33 14 13 13-0789 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	632.30	99.41
33 14 13 13-0790 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	856.78	91.12
33 14 13 13-0791 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	895.75	99.49
33 14 13 13-0792 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	997.24	105.33
33 14 13 13-0793 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,085.22	110.35
33 14 13 13-0794 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,038.72	101.99
33 14 13 13-0795 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,173.81	110.35

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0796 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,378.04	116.20
33 14 13 13-0797 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,383.12	121.22
33 14 13 13-0798 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,287.53	127.07
33 14 13 13-0799 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,513.90	128.74
33 14 13 13-0800 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,730.14	134.59
33 14 13 13-0801 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,251.91	139.61
33 14 13 13-0802 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,411.66	145.46
33 14 13 13-0803 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,359.41	154.67
33 14 13 13-0804 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,591.28	154.67
33 14 13 13-0805 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,749.85	159.68
33 14 13 13-0806 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,058.93	165.53
33 14 13 13-0807 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,124.36	170.54
33 14 13 13-0808 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,608.02	179.74
33 14 13 13-0809 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,483.30	193.12
33 14 13 13-0810 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,239.55	198.14
33 14 13 13-0811 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,408.34	203.15
33 14 13 13-0812 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,571.41	208.17
33 14 13 13-0813 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,748.00	214.02
33 14 13 13-0814 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,781.06	223.21
33 14 13 13-0815 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,820.35	235.75
33 14 13 13-0816 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,588.15	257.49
33 14 13 13-0817 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,674.18	283.41
33 14 13 13-0818 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,732.41	289.26
33 14 13 13-0819 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,992.82	294.28
33 14 13 13-0820 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,251.11	300.13
33 14 13 13-0821 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,285.97	309.32
33 14 13 13-0822 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,328.27	321.86
33 14 13 13-0823 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,845.26	343.60
33 14 13 13-0824 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,665.14	386.24
33 14 13 13-0825 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,259.80	368.68
33 14 13 13-0826 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,302.41	374.53
33 14 13 13-0827 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,663.75	379.55
33 14 13 13-0828 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,830.12	385.40
33 14 13 13-0829 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,403.30	394.60
33 14 13 13-0830 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,881.18	407.14
33 14 13 13-0831 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,451.64	428.87
33 14 13 13-0832 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,990.08	472.34
33 14 13 13-0833 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,350.15	514.99
33 14 13 13-0834 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,608.84	429.71
33 14 13 13-0835 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,392.23	435.56
33 14 13 13-0836 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,814.26	440.58
33 14 13 13-0837 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,237.18	446.43
33 14 13 13-0838 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,837.40	455.63
33 14 13 13-0839 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,484.68	468.17
33 14 13 13-0840 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,727.72	489.90
33 14 13 13-0841 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,086.52	532.54
33 14 13 13-0842 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,574.89	575.18
33 14 13 13-0843 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,454.85	606.11
33 14 13 13-0844 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	12,505.89	494.08
33 14 13 13-0845 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	12,992.55	503.28
33 14 13 13-0846 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,478.84	515.82
33 14 13 13-0847 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	14,415.78	537.55
33 14 13 13-0848 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	15,388.61	580.19
33 14 13 13-0849 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	17,062.35	622.82
33 14 13 13-0850 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	19,097.66	653.77
33 14 13 13-0851 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,754.73	677.17
33 14 13 13-0852 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,026.83	606.95
33 14 13 13-0853 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,536.84	649.58
33 14 13 13-0854 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	21,932.29	680.51
33 14 13 13-0855 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	25,054.66	703.92
33 14 13 13-0856 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	29,510.53	717.30
33 14 13 13-0857 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	19,775.06	649.58
33 14 13 13-0858 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,381.25	692.22
33 14 13 13-0859 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	23,848.19	722.32
33 14 13 13-0860 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	27,157.41	746.56
33 14 13 13-0861 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,431.36	759.93
33 14 13 13-0862 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	38,880.23	780.84

33 14 13 13-0863 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee

(33 14 13 13-0598)

33 14 13 13-0864 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	436.46	81.82
33 14 13 13-0865 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	536.38	93.26
33 14 13 13-0866 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	743.15	99.49
33 14 13 13-0867 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	852.38	110.35
33 14 13 13-0868 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,114.36	128.74



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0869	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....		1,355.76	154.67
33 14 13 13-0870	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....		1,611.72	198.14
33 14 13 13-0871	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....		2,179.72	283.41
33 14 13 13-0872	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....		2,558.95	368.68
33 14 13 13-0873	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....		4,494.63	429.71
33 14 13 13-0874 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross (33 14 13 13-0598)					
33 14 13 13-0875	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		257.34	63.17
33 14 13 13-0876	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		313.84	68.75
33 14 13 13-0877	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		380.15	69.50
33 14 13 13-0878	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		412.34	86.17
33 14 13 13-0879	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		476.62	93.26
33 14 13 13-0880	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		536.43	116.13
33 14 13 13-0881	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		508.45	102.05
33 14 13 13-0882	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		603.11	124.93
33 14 13 13-0883	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		604.31	133.72
33 14 13 13-0884	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		588.22	107.01
33 14 13 13-0885	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		666.12	128.74
33 14 13 13-0886	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		779.60	137.11
33 14 13 13-0887	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		843.60	147.13
33 14 13 13-0888	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		740.31	116.20
33 14 13 13-0889	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		859.68	137.94
33 14 13 13-0890	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		930.50	146.30
33 14 13 13-0891	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		1,075.02	156.33
33 14 13 13-0892	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		1,218.10	165.53
33 14 13 13-0893	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		1,245.24	151.32
33 14 13 13-0894	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		1,462.06	159.68
33 14 13 13-0895	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		1,502.04	170.54
33 14 13 13-0896	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		1,585.04	178.91
33 14 13 13-0897	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		1,752.53	193.12
33 14 13 13-0898	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		1,394.65	171.38
33 14 13 13-0899	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		1,583.84	178.91
33 14 13 13-0900	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		1,890.56	189.78
33 14 13 13-0901	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		2,104.54	198.97
33 14 13 13-0902	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		2,535.78	212.34
33 14 13 13-0903	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		2,653.94	231.57
33 14 13 13-0904	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		2,340.72	202.32
33 14 13 13-0905	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		2,474.04	210.68
33 14 13 13-0906	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		2,590.30	220.71
33 14 13 13-0907	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		2,806.68	229.90
33 14 13 13-0908	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		3,269.77	243.28
33 14 13 13-0909	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		3,481.05	262.51
33 14 13 13-0910	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		3,649.11	294.28
33 14 13 13-0911	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		2,942.68	254.15
33 14 13 13-0912	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		3,077.19	261.67
33 14 13 13-0913	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		3,172.44	272.54
33 14 13 13-0914	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		3,387.01	281.74
33 14 13 13-0915	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		3,448.75	295.11
33 14 13 13-0916	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		4,162.91	314.34
33 14 13 13-0917	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		4,330.96	345.27
33 14 13 13-0918	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		4,691.38	397.11
33 14 13 13-0919	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		4,006.44	317.69
33 14 13 13-0920	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		4,100.35	326.04
33 14 13 13-0921	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		4,256.02	336.08
33 14 13 13-0922	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		4,390.70	345.27
33 14 13 13-0923	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		4,471.67	358.65
33 14 13 13-0924	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		4,642.70	377.88
33 14 13 13-0925	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		6,120.49	409.65
33 14 13 13-0926	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		6,459.88	460.64
33 14 13 13-0927	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		7,121.11	524.18
33 14 13 13-0928	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		6,165.65	422.19
33 14 13 13-0929	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		6,289.12	432.22
33 14 13 13-0930	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		6,409.98	441.41
33 14 13 13-0931	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		6,554.64	454.80
33 14 13 13-0932	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		6,722.66	474.86
33 14 13 13-0933	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		6,923.76	505.79
33 14 13 13-0934	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		7,185.65	556.78
33 14 13 13-0935	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		9,193.27	621.16
33 14 13 13-0936	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		10,572.71	717.30
33 14 13 13-0937	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		8,544.56	457.30
33 14 13 13-0938	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		8,666.83	467.33
33 14 13 13-0939	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		8,772.68	476.53
33 14 13 13-0940	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		8,900.50	490.73
33 14 13 13-0941	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross		9,052.30	509.97

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0942	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,237.18	540.90	
33 14 13 13-0943	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,484.05	592.73	
33 14 13 13-0944	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,901.95	656.27	
33 14 13 13-0945	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	13,277.25	752.41	
33 14 13 13-0946	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,570.52	788.36	
33 14 13 13-0947	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	11,414.87	497.43	
33 14 13 13-0948	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	11,655.05	510.81	
33 14 13 13-0949	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	11,802.65	530.87	
33 14 13 13-0950	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	12,010.35	561.80	
33 14 13 13-0951	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	12,381.59	613.63	
33 14 13 13-0952	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	13,134.73	677.17	
33 14 13 13-0953	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,933.26	773.31	
33 14 13 13-0954	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,718.38	808.42	
33 14 13 13-0955	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	22,183.60	829.33	
33 14 13 13-0956	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,390.74	579.35	
33 14 13 13-0957	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,499.35	592.73	
33 14 13 13-0958	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,645.15	611.96	
33 14 13 13-0959	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,809.58	642.90	
33 14 13 13-0960	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	16,034.83	694.72	
33 14 13 13-0961	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	16,408.88	758.26	
33 14 13 13-0962	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	17,389.98	854.41	
33 14 13 13-0963	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	21,236.64	890.35	
33 14 13 13-0964	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,198.86	911.25	
33 14 13 13-0965	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	28,977.00	992.35	
33 14 13 13-0966 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers					
(33 14 13 13-0598)					
33 14 13 13-0967	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	175.25	34.37	
33 14 13 13-0968	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	241.31	43.08	
33 14 13 13-0969	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	264.16	45.75	
33 14 13 13-0970	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	340.34	51.91	
33 14 13 13-0971	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	358.85	60.71	
33 14 13 13-0972	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	409.93	54.34	
33 14 13 13-0973	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	433.27	62.70	
33 14 13 13-0974	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	453.06	68.55	
33 14 13 13-0975	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	471.75	60.19	
33 14 13 13-0976	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	523.34	68.55	
33 14 13 13-0977	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	535.31	73.57	
33 14 13 13-0978	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	560.82	79.42	
33 14 13 13-0979	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	796.71	77.75	
33 14 13 13-0980	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	805.09	82.77	
33 14 13 13-0981	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	712.83	88.62	
33 14 13 13-0982	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	730.20	93.64	
33 14 13 13-0983	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	953.17	90.29	
33 14 13 13-0984	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	930.90	96.14	
33 14 13 13-0985	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	882.50	101.16	
33 14 13 13-0986	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	877.03	106.18	
33 14 13 13-0987	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	988.20	115.37	
33 14 13 13-0988	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,050.75	117.04	
33 14 13 13-0989	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,177.79	122.89	
33 14 13 13-0990	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,133.28	127.91	
33 14 13 13-0991	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,342.97	137.11	
33 14 13 13-0992	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,198.42	150.48	
33 14 13 13-0993	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,402.34	160.52	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0994	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,416.42	165.53
33 14 13 13-0995	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,302.23	171.38
33 14 13 13-0996	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,308.26	180.58
33 14 13 13-0997	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,289.26	193.12
33 14 13 13-0998	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,514.87	214.86
33 14 13 13-0999	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,775.57	214.02
33 14 13 13-1000	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,806.24	223.21
33 14 13 13-1001	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,844.93	235.75
33 14 13 13-1002	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,835.61	257.49
33 14 13 13-1003	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,119.92	300.13
33 14 13 13-1004	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,146.65	265.85
33 14 13 13-1005	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,288.15	287.59
33 14 13 13-1006	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,207.75	331.06
33 14 13 13-1007	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,788.32	373.70
33 14 13 13-1008	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,152.82	354.47
33 14 13 13-1009	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,910.63	397.11
33 14 13 13-1010	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,177.78	428.04
33 14 13 13-1011	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,979.17	303.47
33 14 13 13-1012	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,961.44	325.21
33 14 13 13-1013	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,007.83	367.84
33 14 13 13-1014	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,264.29	410.48
33 14 13 13-1015	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,197.67	441.41
33 14 13 13-1016	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,441.60	464.82
33 14 13 13-1017	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,492.25	324.37
33 14 13 13-1018	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,273.87	346.10
33 14 13 13-1019	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,953.16	388.75
33 14 13 13-1020	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,179.58	432.22
33 14 13 13-1021	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,562.42	462.32
33 14 13 13-1022	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,468.97	485.73
33 14 13 13-1023	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,188.46	499.10
33 14 13 13-1024		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps (33 14 13 13-0598)		
33 14 13 13-1025	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	192.28	72.58
33 14 13 13-1026	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	229.97	85.34
33 14 13 13-1027	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	322.30	106.45
33 14 13 13-1028	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	415.64	121.41
33 14 13 13-1029	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	570.06	183.93
33 14 13 13-1030	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	694.53	200.64
33 14 13 13-1031	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	783.81	220.71
33 14 13 13-1032	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	935.71	244.95
33 14 13 13-1033	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,087.29	275.89
33 14 13 13-1034	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,297.81	315.17
33 14 13 13-1035	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,635.78	367.84
33 14 13 13-1036	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,792.64	441.41
33 14 13 13-1037	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	4,444.41	551.77
33 14 13 13-1038	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	6,302.28	662.12
33 14 13 13-1039	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	7,463.33	735.69
33 14 13 13-1040		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug (33 14 13 13-0598)		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1041 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	192.88	72.58
33 14 13 13-1042 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	235.98	85.34
33 14 13 13-1043 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	337.93	106.45
33 14 13 13-1044 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	431.26	121.41
33 14 13 13-1045 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	659.58	183.93
33 14 13 13-1046 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	714.96	200.64
33 14 13 13-1047 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	914.18	220.71
33 14 13 13-1048 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,086.51	244.95
33 14 13 13-1049 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,280.15	275.89
33 14 13 13-1050 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,558.56	315.17
33 14 13 13-1051 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,007.07	367.84
33 14 13 13-1052 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,305.72	441.41
33 14 13 13-1053 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,763.44	551.77
33 14 13 13-1054 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	6,342.53	662.12
33 14 13 13-1055 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	8,317.07	735.69
33 14 13 13-1056 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0598)		
33 14 13 13-1057 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	271.10	110.32
33 14 13 13-1058 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	344.35	127.56
33 14 13 13-1059 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	461.23	160.11
33 14 13 13-1060 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	584.71	182.12
33 14 13 13-1061 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	867.40	275.89
33 14 13 13-1062 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,013.54	300.96
33 14 13 13-1063 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,276.63	331.06
33 14 13 13-1064 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,442.92	367.84
33 14 13 13-1065 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,839.42	413.83
33 14 13 13-1066 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,127.86	473.19
33 14 13 13-1067 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,559.71	551.77
33 14 13 13-1068 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,866.03	662.12
33 14 13 13-1069 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	5,201.88	827.65
33 14 13 13-1070 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	6,937.10	945.53
33 14 13 13-1071 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,565.61	1,103.53
33 14 13 13-1072 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0598)		
33 14 13 13-1073 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	278.31	110.32
33 14 13 13-1074 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	335.34	127.56
33 14 13 13-1075 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	471.45	160.11
33 14 13 13-1076 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	612.35	182.12
33 14 13 13-1077 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	828.95	275.89
33 14 13 13-1078 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	977.49	300.96
33 14 13 13-1079 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,199.73	331.06
33 14 13 13-1080 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,402.06	367.84
33 14 13 13-1081 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,654.38	413.83
33 14 13 13-1082 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,919.38	473.19
33 14 13 13-1083 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	2,368.65	551.77
33 14 13 13-1084 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	3,766.90	662.12
33 14 13 13-1085 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	4,870.84	827.65
33 14 13 13-1086 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	6,237.33	944.70
33 14 13 13-1087 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	9,031.23	1,103.53
33 14 13 13-1088 Push-On Joint Ductile Iron Piping (33 14 13 13-0001)		
33 14 13 13-1089 Push-On Joint Ductile Iron Pipe (33 14 13 13-1088)		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1090	LF		4", Class 50, Push-On Joint Ductile Iron Pipe.....	23.65	7.26
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	8.86	
			For Cement Mortar Lining (CML), Add	1.27	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	6.83	
			For Fusion Bonded Epoxy Lining (206N), Add	2.28	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	0.95	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-1.18	
			For Class 51, Add	1.23	
			For Class 52, Add	2.74	
			For Class 53, Add	7.19	
			For Class 54, Add	10.24	
			For Class 55, Add	11.80	
			For Class 56, Add	13.33	
33 14 13 13-1091	LF		6", Class 50, Push-On Joint Ductile Iron Pipe.....	25.93	8.00
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	9.72	
			For Cement Mortar Lining (CML), Add	1.39	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	7.50	
			For Fusion Bonded Epoxy Lining (206N), Add	2.50	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.04	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-1.30	
			For Class 51, Add	1.35	
			For Class 52, Add	3.01	
			For Class 53, Add	7.89	
			For Class 54, Add	11.24	
			For Class 55, Add	12.95	
			For Class 56, Add	14.62	
33 14 13 13-1092	LF		8", Class 50, Push-On Joint Ductile Iron Pipe.....	32.17	8.80
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.28	
			For Cement Mortar Lining (CML), Add	1.90	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	10.24	
			For Fusion Bonded Epoxy Lining (206N), Add	3.41	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.42	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-1.61	
			For Class 51, Add	1.80	
			For Class 52, Add	4.03	
			For Class 53, Add	10.66	
			For Class 54, Add	15.20	
			For Class 55, Add	17.49	
			For Class 56, Add	19.74	
33 14 13 13-1093	LF		10", Class 50, Push-On Joint Ductile Iron Pipe.....	45.58	12.45
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	16.06	
			For Cement Mortar Lining (CML), Add	2.68	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	13.39	
			For Fusion Bonded Epoxy Lining (206N), Add	4.82	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.01	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-2.28	
			For Class 51, Add	2.55	
			For Class 52, Add	5.69	
			For Class 53, Add	15.05	
			For Class 54, Add	21.46	
			For Class 55, Add	24.69	
			For Class 56, Add	27.87	
33 14 13 13-1094	LF		12", Class 50, Push-On Joint Ductile Iron Pipe.....	52.81	13.79
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.96	
			For Cement Mortar Lining (CML), Add	3.19	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	12.76	
			For Fusion Bonded Epoxy Lining (206N), Add	5.74	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.39	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-2.64	
			For Class 51, Add	3.02	
			For Class 52, Add	6.75	
			For Class 53, Add	17.88	
			For Class 54, Add	25.50	
			For Class 55, Add	29.34	
			For Class 56, Add	33.11	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1095 LF 14", Class 50, Push-On Joint Ductile Iron Pipe.....	64.18	15.55
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.90	
For Cement Mortar Lining (CML), Add	4.07	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.83	
For Fusion Bonded Epoxy Lining (206N), Add	7.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.05	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.21	
For Class 51, Add	3.80	
For Class 52, Add	8.52	
For Class 53, Add	22.68	
For Class 54, Add	32.35	
For Class 55, Add	37.21	
For Class 56, Add	41.97	
33 14 13 13-1096 LF 16", Class 50, Push-On Joint Ductile Iron Pipe.....	75.95	17.72
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.14	
For Cement Mortar Lining (CML), Add	4.91	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	15.22	
For Fusion Bonded Epoxy Lining (206N), Add	8.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.68	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.80	
For Class 51, Add	4.57	
For Class 52, Add	10.25	
For Class 53, Add	27.32	
For Class 54, Add	38.98	
For Class 55, Add	44.82	
For Class 56, Add	50.56	
33 14 13 13-1097 LF 18", Class 50, Push-On Joint Ductile Iron Pipe.....	88.39	20.73
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.39	
For Cement Mortar Lining (CML), Add	5.70	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.68	
For Fusion Bonded Epoxy Lining (206N), Add	10.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.28	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.42	
For Class 51, Add	5.31	
For Class 52, Add	11.91	
For Class 53, Add	31.74	
For Class 54, Add	45.28	
For Class 55, Add	52.07	
For Class 56, Add	58.74	
33 14 13 13-1098 LF 20", Class 50, Push-On Joint Ductile Iron Pipe.....	102.14	24.83
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.52	
For Cement Mortar Lining (CML), Add	6.45	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.07	
For Fusion Bonded Epoxy Lining (206N), Add	11.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.84	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.11	
For Class 51, Add	6.04	
For Class 52, Add	13.53	
For Class 53, Add	35.99	
For Class 54, Add	51.33	
For Class 55, Add	59.03	
For Class 56, Add	66.60	
33 14 13 13-1099 LF 24", Class 50, Push-On Joint Ductile Iron Pipe.....	129.16	31.02
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	25.45	
For Cement Mortar Lining (CML), Add	8.21	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.24	
For Fusion Bonded Epoxy Lining (206N), Add	14.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.16	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.46	
For Class 51, Add	7.67	
For Class 52, Add	17.19	
For Class 53, Add	45.76	
For Class 54, Add	65.27	
For Class 55, Add	75.06	
For Class 56, Add	84.68	



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1100	LF		30", Class 50, Push-On Joint Ductile Iron Pipe.....	152.33	33.11
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.67	
			For Cement Mortar Lining (CML), Add	10.22	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	18.39	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.66	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-7.62	
			For Class 51, Add	9.44	
			For Class 52, Add	21.19	
			For Class 53, Add	56.63	
			For Class 54, Add	80.81	
			For Class 55, Add	92.89	
			For Class 56, Add	104.76	
33 14 13 13-1101	LF		36", Class 50, Push-On Joint Ductile Iron Pipe.....	187.84	35.19
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	41.70	
			For Cement Mortar Lining (CML), Add	13.45	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	24.21	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.09	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-9.39	
			For Class 51, Add	12.27	
			For Class 52, Add	27.57	
			For Class 53, Add	74.08	
			For Class 54, Add	105.75	
			For Class 55, Add	121.49	
			For Class 56, Add	136.95	
33 14 13 13-1102	LF		42", Class 50, Push-On Joint Ductile Iron Pipe.....	227.94	37.29
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	53.17	
			For Cement Mortar Lining (CML), Add	17.15	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	30.87	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.86	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-11.40	
			For Class 51, Add	15.51	
			For Class 52, Add	34.87	
			For Class 53, Add	94.03	
			For Class 54, Add	134.27	
			For Class 55, Add	154.20	
			For Class 56, Add	173.77	
33 14 13 13-1103	LF		48", Class 50, Push-On Joint Ductile Iron Pipe.....	273.43	39.30
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	66.28	
			For Cement Mortar Lining (CML), Add	21.38	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	38.49	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.04	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-13.67	
			For Class 51, Add	19.20	
			For Class 52, Add	43.21	
			For Class 53, Add	116.82	
			For Class 54, Add	166.85	
			For Class 55, Add	191.57	
			For Class 56, Add	215.83	
33 14 13 13-1104	LF		54", Class 50, Push-On Joint Ductile Iron Pipe.....	345.14	41.38
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	87.56	
			For Cement Mortar Lining (CML), Add	28.24	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	50.84	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.18	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-17.26	
			For Class 51, Add	25.16	
			For Class 52, Add	56.67	
			For Class 53, Add	153.71	
			For Class 54, Add	219.60	
			For Class 55, Add	252.04	
			For Class 56, Add	283.89	
33 14 13 13-1105			Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1088)		
33 14 13 13-1106	EA		4" 90 Degree Elbow, Push-On Joint Ductile Iron	151.76	28.33
			For Cement Mortar Lining (CML), Add	10.88	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	19.59	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.16	
			Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1107 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	220.20 15.69 28.23 11.76	41.79
33 14 13 13-1108 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	292.81 21.76 39.17 16.32	49.62
33 14 13 13-1109 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	442.72 32.89 59.21 24.67	55.01
33 14 13 13-1110 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	568.59 43.52 78.34 32.64	64.54
33 14 13 13-1111 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,104.13 95.45 171.80 71.58	72.40
33 14 13 13-1112 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,248.52 107.75 193.95 80.81	82.77
33 14 13 13-1113 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,939.82 170.04 306.08 127.53	115.87
33 14 13 13-1114 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,186.17 189.41 340.94 142.06	146.05
33 14 13 13-1115 EA 24" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,729.84 236.48 425.66 177.36	182.59
33 14 13 13-1116 Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1089)		
33 14 13 13-1117 EA 4" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	127.01 8.41 15.13 6.31	28.33
33 14 13 13-1118 EA 6" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	186.93 12.36 22.25 9.27	41.79
33 14 13 13-1119 EA 8" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	257.01 18.18 32.72 13.63	49.62



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-1120	EA	10" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	393.30 27.95 50.31 20.96	55.01
33 14 13 13-1121	EA	12" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	505.61 37.22 67.00 27.92	64.54
33 14 13 13-1122	EA	14" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	710.88 56.12 101.01 42.09	72.40
33 14 13 13-1123	EA	16" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,042.60 87.16 156.89 65.37	82.77
33 14 13 13-1124	EA	18" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,207.28 96.79 174.22 72.59	115.87
33 14 13 13-1125	EA	20" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,684.63 139.26 250.66 104.44	146.05
33 14 13 13-1126	EA	24" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,091.05 172.60 310.67 129.45	182.59
33 14 13 13-1127 Push-On Joint Ductile Iron Tee (33 14 13 13-1088)				
33 14 13 13-1128	EA	4" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	231.60 16.83 30.29 12.62	41.79
33 14 13 13-1129	EA	6" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	323.32 23.02 41.44 17.27	61.41
33 14 13 13-1130	EA	8" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	439.29 32.64 58.75 24.48	74.43
33 14 13 13-1131	EA	10" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	639.02 51.36 92.45 38.52	83.60
33 14 13 13-1132	EA	12" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	794.02 64.77 116.59 48.58	96.39

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1133 EA 14" Tee, Push-On Joint Ductile Iron.....	1,268.15	115.87
For Cement Mortar Lining (CML), Add	109.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	196.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	81.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1134 EA 16" Tee, Push-On Joint Ductile Iron.....	1,826.94	144.88
For Cement Mortar Lining (CML), Add	160.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	289.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1135 EA 18" Tee, Push-On Joint Ductile Iron.....	2,299.29	193.28
For Cement Mortar Lining (CML), Add	200.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	361.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1136 EA 20" Tee, Push-On Joint Ductile Iron.....	2,711.68	235.84
For Cement Mortar Lining (CML), Add	235.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	423.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	176.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1137 EA 24" Tee, Push-On Joint Ductile Iron.....	3,547.85	294.78
For Cement Mortar Lining (CML), Add	310.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	558.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	232.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1138 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1088)		
33 14 13 13-1139 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron	225.81	98.27
For Cement Mortar Lining (CML), Add	7.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	13.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1140 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron	277.58	121.68
For Cement Mortar Lining (CML), Add	9.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1141 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron	349.10	141.90
For Cement Mortar Lining (CML), Add	13.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1142 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron	488.34	206.91
For Cement Mortar Lining (CML), Add	17.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	31.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1143 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron	579.75	236.51
For Cement Mortar Lining (CML), Add	22.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1144 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron	653.94	254.65
For Cement Mortar Lining (CML), Add	26.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1145 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron	756.02	275.89
For Cement Mortar Lining (CML), Add	33.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	60.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.35	
Note: ANSI/AWWA C151/A21.51		



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		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1146 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	897.90 39.63 71.33 29.72	331.06
33 14 13 13-1147 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,029.41 47.21 84.97 35.41	367.84
33 14 13 13-1148 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,260.85 61.78 111.20 46.33	424.45
33 14 13 13-1149 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,880.42 110.87 199.57 83.15	509.30
33 14 13 13-1150 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,546.57 158.20 284.75 118.65	636.63
33 14 13 13-1151 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,163.11 204.84 368.72 153.63	735.69
33 14 13 13-1152 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,042.72 260.96 469.72 195.72	945.86
33 14 13 13-1153 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,875.08 320.26 576.47 240.20	1,103.79
33 14 13 13-1154 Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1088) Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-1155 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	32.60	10.65
33 14 13 13-1156 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	36.18	10.65
33 14 13 13-1157 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	48.39	15.04
33 14 13 13-1158 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	58.10	16.56
33 14 13 13-1159 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	69.06	18.39
33 14 13 13-1160 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	87.07	20.65
33 14 13 13-1161 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	102.69	23.66
33 14 13 13-1162 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	118.69	27.59
33 14 13 13-1163 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	138.53	33.11
33 14 13 13-1164 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	163.79	33.11
33 14 13 13-1165 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	216.59	41.38
33 14 13 13-1166 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	275.24	41.38
33 14 13 13-1167 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	354.12	55.18
33 14 13 13-1168 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	406.24	55.18
33 14 13 13-1169 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	550.47	55.18
33 14 13 13-1170 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) (33 14 13 13-1088)		
33 14 13 13-1171 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400).....	161.07	56.43
33 14 13 13-1172 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600).....	210.26	68.89
33 14 13 13-1173 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800).....	268.97	84.02
33 14 13 13-1174 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 17100).....	396.44	102.50
33 14 13 13-1175 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200).....	490.98	124.99

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1176 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400).....	823.04	152.49
33 14 13 13-1177 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600).....	944.10	186.09
33 14 13 13-1178 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800).....	1,077.68	226.98
33 14 13 13-1179 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000).....	1,453.05	276.97
33 14 13 13-1180 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400).....	1,847.69	337.84
33 14 13 13-1181 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000).....	3,125.39	412.24
33 14 13 13-1182 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600).....	4,404.03	502.87
33 14 13 13-1183 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200).....	7,888.28	613.55
33 14 13 13-1184 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800).....	10,188.17	748.48
33 14 13 13-1185 Ductile Iron Pipe Repair (33 14 13 13-0001) See CSI section 33 14 13 13-0002 for mechanical joint fittings.		
33 14 13 13-1186 Ductile Iron Pipe Repair (33 14 13 13-1185) Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.		
33 14 13 13-1187 EA 30" Diameter Mechanical Ductile Iron Push Joint.....	2,358.48	
33 14 13 13-1188 EA 36" Diameter Mechanical Ductile Iron Push Joint.....	2,985.04	
33 14 13 13-1189 EA 42" Diameter Mechanical Ductile Iron Push Joint.....	3,759.77	
33 14 13 13-1190 EA 48" Diameter Mechanical Ductile Iron Push Joint.....	4,714.75	
33 14 13 13-1191 EA 54" Diameter Mechanical Ductile Iron Push Joint.....	6,808.25	
33 14 13 13-1192 WEKO Seals (33 14 13 13-1185) Note: Internal joint seal.		
33 14 13 13-1193 EA 16" WEKO Internal Joint Seal.....	1,289.96	156.82
For Extra Wide Seals, Add	81.88	
33 14 13 13-1194 EA 18" WEKO Internal Joint Seal.....	1,373.96	165.59
For Extra Wide Seals, Add	82.55	
33 14 13 13-1195 EA 20" WEKO Internal Joint Seal.....	1,457.84	174.36
For Extra Wide Seals, Add	83.21	
33 14 13 13-1196 EA 24" WEKO Internal Joint Seal.....	1,545.29	188.31
For Extra Wide Seals, Add	84.27	
33 14 13 13-1197 EA 30" WEKO Internal Joint Seal.....	1,596.89	202.26
For Extra Wide Seals, Add	85.32	
33 14 13 13-1198 EA 36" WEKO Internal Joint Seal.....	1,677.07	219.69
For Extra Wide Seals, Add	86.64	
33 14 13 13-1199 EA 42" WEKO Internal Joint Seal.....	1,789.42	240.62
For Extra Wide Seals, Add	88.23	
33 14 13 13-1200 EA 48" WEKO Internal Joint Seal.....	1,932.34	258.06
For Extra Wide Seals, Add	89.55	
33 14 13 13-1201 EA 54" WEKO Internal Joint Seal.....	2,005.46	272.00
For Extra Wide Seals, Add	90.61	
33 14 13 13-1202 EA 60" WEKO Internal Joint Seal.....	2,092.72	292.93
For Extra Wide Seals, Add	92.19	
33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13) 33 14 13 23-0001 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23) 33 14 13 23-0002 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0001)		
33 14 13 23-0003 LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	1.87	0.66
For >1,000, Deduct	-0.09	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.04	
33 14 13 23-0004 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	2.07	0.70
For >1,000, Deduct	-0.10	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.05	
33 14 13 23-0005 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	2.42	0.77
For >1,000, Deduct	-0.12	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.08	
33 14 13 23-0006 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	2.80	0.85
For >1,000, Deduct	-0.14	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.10	
33 14 13 23-0007 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	3.63	0.95
For >1,000, Deduct	-0.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.19	
33 14 13 23-0008 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	4.69	1.08
For >1,000, Deduct	-0.23	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.30	
33 14 13 23-0009 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	5.73	1.20
For >1,000, Deduct	-0.29	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.41	
33 14 13 23-0010 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	8.16	1.48
For >1,000, Deduct	-0.41	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.67	
33 14 13 23-0011 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	14.41	1.89
For >1,000, Deduct	-0.72	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.46	
33 14 13 23-0012 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	22.98	2.61
For >1,000, Deduct	-1.15	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.47	
33 14 13 23-0013 LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	34.30	3.50
For >1,000, Deduct	-1.72	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	3.83	



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 14 13 23-0014	LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	47.78		4.71	
	For >1,000, Deduct	-2.39			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	5.40			
33 14 13 23-0015 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)					
33 14 13 23-0016	EA 3/4" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	19.87		7.84	
33 14 13 23-0017	EA 1" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	25.12		9.80	
33 14 13 23-0018	EA 1-1/4" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	31.66		12.25	
33 14 13 23-0019	EA 1-1/2" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	48.04		13.55	
33 14 13 23-0020	EA 2" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	51.96		15.19	
33 14 13 23-0021	EA 2-1/2" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	61.55		17.24	
33 14 13 23-0022	EA 3" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	68.96		19.31	
33 14 13 23-0023	EA 4" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	95.99		23.71	
33 14 13 23-0024	EA 6" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	138.61		30.12	
33 14 13 23-0025	EA 8" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	225.31		39.55	
33 14 13 23-0026	EA 10" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	276.68		52.91	
33 14 13 23-0027	EA 12" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	365.63		71.21	
33 14 13 23-0028 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)					
33 14 13 23-0029	EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	20.25		7.84	
33 14 13 23-0030	EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	25.39		9.80	
33 14 13 23-0031	EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	31.82		12.25	
33 14 13 23-0032	EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	43.08		13.55	
33 14 13 23-0033	EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	52.42		15.19	
33 14 13 23-0034	EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	63.43		17.24	
33 14 13 23-0035	EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	68.17		19.31	
33 14 13 23-0036	EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	94.28		23.71	
33 14 13 23-0037	EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	135.16		30.12	
33 14 13 23-0038	EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	218.74		39.55	
33 14 13 23-0039	EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	249.45		52.91	
33 14 13 23-0040	EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	327.94		71.21	
33 14 13 23-0041 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)					
33 14 13 23-0042	EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	29.78		11.76	
33 14 13 23-0043	EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	37.60		14.78	
33 14 13 23-0044	EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	47.15		18.46	
33 14 13 23-0045	EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	65.95		20.42	
33 14 13 23-0046	EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	75.12		22.71	
33 14 13 23-0047	EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	87.50		25.89	
33 14 13 23-0048	EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	105.55		28.89	
33 14 13 23-0049	EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	138.93		35.60	
33 14 13 23-0050	EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	231.70		45.25	
33 14 13 23-0051	EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	348.10		59.31	
33 14 13 23-0052	EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	411.30		83.89	
33 14 13 23-0053	EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	513.65		112.90	
33 14 13 23-0054 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)					
33 14 13 23-0055	EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	13.31		5.23	
33 14 13 23-0056	EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	17.97		7.02	
33 14 13 23-0057	EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	24.01		9.22	
33 14 13 23-0058	EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	33.76		10.21	
33 14 13 23-0059	EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	37.22		11.35	
33 14 13 23-0060	EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	42.33		12.91	
33 14 13 23-0061	EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	48.64		14.44	
33 14 13 23-0062	EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	66.97		17.77	
33 14 13 23-0063	EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	96.04		22.63	
33 14 13 23-0064	EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	164.14		29.65	
33 14 13 23-0065	EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	194.97		41.98	
33 14 13 23-0066	EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	248.21		56.44	
33 14 13 23-0067 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)					
33 14 13 23-0068 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0067)					
33 14 13 23-0069	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.06		0.66	
	For >1,000, Deduct	-0.10			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.06			
33 14 13 23-0070	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.44		0.70	
	For >1,000, Deduct	-0.12			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.10			
33 14 13 23-0071	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.14		0.85	
	For >1,000, Deduct	-0.16			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.15			
33 14 13 23-0072	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.76		0.95	
	For >1,000, Deduct	-0.19			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.21			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0073 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	4.89 -0.24 0.33	1.08
33 14 13 23-0074 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	5.86 -0.29 0.43	1.20
33 14 13 23-0075 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	7.82 -0.39 0.62	1.48
33 14 13 23-0076 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	11.87 -0.59 1.07	1.89
33 14 13 23-0077 90 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0078 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	20.01	7.84
33 14 13 23-0079 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	25.20	9.80
33 14 13 23-0080 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	35.07	13.55
33 14 13 23-0081 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	39.64	15.19
33 14 13 23-0082 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	47.71	17.24
33 14 13 23-0083 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	53.81	19.31
33 14 13 23-0084 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	70.63	23.71
33 14 13 23-0085 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	111.46	30.12
33 14 13 23-0086 45 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0087 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	19.98	7.84
33 14 13 23-0088 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	25.17	9.80
33 14 13 23-0089 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	35.08	13.55
33 14 13 23-0090 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	39.51	15.19
33 14 13 23-0091 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	47.35	17.24
33 14 13 23-0092 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	53.39	19.31
33 14 13 23-0093 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	69.79	23.71
33 14 13 23-0094 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	108.79	30.12
33 14 13 23-0095 Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0096 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	29.92	11.76
33 14 13 23-0097 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	37.71	14.78
33 14 13 23-0098 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	52.43	20.42
33 14 13 23-0099 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	58.99	22.71
33 14 13 23-0100 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	71.78	25.89
33 14 13 23-0101 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	82.42	28.89
33 14 13 23-0102 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	102.54	35.60
33 14 13 23-0103 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	169.74	45.25
33 14 13 23-0104 Couplings, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0105 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	13.38	5.23
33 14 13 23-0106 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	18.02	7.02
33 14 13 23-0107 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	26.13	10.21
33 14 13 23-0108 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	29.48	11.35
33 14 13 23-0109 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	34.65	12.91
33 14 13 23-0110 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	39.73	14.44
33 14 13 23-0111 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	49.24	17.77
33 14 13 23-0112 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	72.99	22.63
33 14 13 23-0113 Crosses, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0114 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	40.03	15.68
33 14 13 23-0115 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC)	50.21	19.68
33 14 13 23-0116 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	69.90	27.20
33 14 13 23-0117 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	78.64	30.30
33 14 13 23-0118 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	95.66	34.46
33 14 13 23-0119 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC)	109.82	38.54
33 14 13 23-0120 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	136.65	47.42
33 14 13 23-0121 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC)	225.99	60.32
33 14 13 23-0122 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0123 Schedule 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0122)		
33 14 13 23-0124 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.65 -0.13 0.13	0.70
33 14 13 23-0125 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	3.56 -0.18 0.22	0.85
33 14 13 23-0126 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	4.46 -0.22 0.31	0.95



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 14 13 23-0127	LF	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	5.80		1.08
		For >1,000, Deduct	-0.29		
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.47		
33 14 13 23-0128	LF	3" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	7.14		1.20
		For >1,000, Deduct	-0.36		
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.62		
33 14 13 23-0129	LF	4" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	9.78		1.48
		For >1,000, Deduct	-0.49		
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.91		
33 14 13 23-0130	LF	6" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	16.24		1.89
		For >1,000, Deduct	-0.81		
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.73		
33 14 13 23-0131 90 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)					
33 14 13 23-0132	EA	1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	26.29		9.80
33 14 13 23-0133	EA	1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	35.07		13.55
33 14 13 23-0134	EA	2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	40.72		15.19
33 14 13 23-0135	EA	2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	50.02		17.24
33 14 13 23-0136	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	55.95		19.31
33 14 13 23-0137	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	71.15		23.71
33 14 13 23-0138	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	109.02		30.12
33 14 13 23-0139 45 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)					
33 14 13 23-0140	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	30.74		9.80
33 14 13 23-0141	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	39.36		13.55
33 14 13 23-0142	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	44.85		15.19
33 14 13 23-0143	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	57.75		17.24
33 14 13 23-0144	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	66.03		19.31
33 14 13 23-0145	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	91.40		23.71
33 14 13 23-0146	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	107.66		30.12
33 14 13 23-0147 Tees Or Wyes, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)					
33 14 13 23-0148	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	39.99		14.78
33 14 13 23-0149	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	59.35		20.42
33 14 13 23-0150	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	67.25		22.71
33 14 13 23-0151	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	76.15		25.89
33 14 13 23-0152	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	86.60		28.89
33 14 13 23-0153	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	105.56		35.60
33 14 13 23-0154	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	169.63		45.25
33 14 13 23-0155 Couplings, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)					
33 14 13 23-0156	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	19.65		7.02
33 14 13 23-0157	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	28.93		10.21
33 14 13 23-0158	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	32.11		11.35
33 14 13 23-0159	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	41.41		12.91
33 14 13 23-0160	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	46.55		14.44
33 14 13 23-0161	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	57.52		17.77
33 14 13 23-0162	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	84.56		22.63
33 14 13 23-0163 Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)					
33 14 13 23-0164	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	53.24		19.68
33 14 13 23-0165	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	79.09		27.20
33 14 13 23-0166	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	89.59		30.30
33 14 13 23-0167	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	101.46		34.46
33 14 13 23-0168	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	115.37		38.54
33 14 13 23-0169	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	140.65		47.42
33 14 13 23-0170	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	225.85		60.32
33 14 13 23-0171 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23)					
Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.					
33 14 13 23-0172 AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)					
33 14 13 23-0173	LF	4" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe.....	7.81		2.86
33 14 13 23-0174	LF	6" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe.....	11.21		3.46
33 14 13 23-0175	LF	8" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe.....	15.18		3.89
33 14 13 23-0176	LF	10" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe.....	19.80		4.33
33 14 13 23-0177	LF	12" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe.....	25.46		4.84
33 14 13 23-0178 AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)					
33 14 13 23-0179	LF	4" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe.....	8.57		2.86
33 14 13 23-0180	LF	6" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe.....	12.77		3.46
33 14 13 23-0181	LF	8" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe.....	17.81		3.89
33 14 13 23-0182	LF	10" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe.....	23.90		4.33
33 14 13 23-0183	LF	12" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe.....	31.18		4.84

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0184 AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)				
33 14 13 23-0185	LF	4" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	9.31	2.86
33 14 13 23-0186	LF	6" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	14.32	3.46
33 14 13 23-0187	LF	8" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	20.45	3.89
33 14 13 23-0188	LF	10" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	27.90	4.33
33 14 13 23-0189	LF	12" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	36.89	4.84
33 14 13 23-0190 AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)				
33 14 13 23-0191	LF	18" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	32.12	7.27
33 14 13 23-0192	LF	20" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	38.99	8.65
33 14 13 23-0193	LF	24" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	51.37	10.38
33 14 13 23-0194	LF	30" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	72.07	12.11
33 14 13 23-0195	LF	36" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	97.33	13.85
33 14 13 23-0196	LF	42" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	121.22	14.71
33 14 13 23-0197	LF	48" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	151.40	15.83
33 14 13 23-0198 AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)				
33 14 13 23-0199	LF	14" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	23.74	5.45
33 14 13 23-0200	LF	16" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	29.22	6.06
33 14 13 23-0201	LF	18" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	36.08	7.27
33 14 13 23-0202	LF	20" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	44.13	8.65
33 14 13 23-0203	LF	24" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	59.31	10.38
33 14 13 23-0204	LF	30" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	83.45	12.11
33 14 13 23-0205	LF	36" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	112.57	13.85
33 14 13 23-0206	LF	42" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	146.55	14.71
33 14 13 23-0207	LF	48" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	184.27	15.83
33 14 13 23-0208 AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)				
33 14 13 23-0209	LF	14" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	26.79	5.45
33 14 13 23-0210	LF	16" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	33.45	6.06
33 14 13 23-0211	LF	18" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	41.33	7.27
33 14 13 23-0212	LF	20" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	50.95	8.65
33 14 13 23-0213	LF	24" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	69.09	10.38
33 14 13 23-0214	LF	30" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	98.15	12.11
33 14 13 23-0215	LF	36" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	134.04	13.85
33 14 13 23-0216	LF	42" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	171.98	14.71
33 14 13 23-0217	LF	48" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	217.46	15.83
33 14 13 23-0218 AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)				
33 14 13 23-0219	LF	14" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	31.99	5.45
33 14 13 23-0220	LF	16" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	39.64	6.06
33 14 13 23-0221	LF	18" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	49.30	7.27
33 14 13 23-0222	LF	20" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	60.57	8.65
33 14 13 23-0223	LF	24" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	82.97	10.38
33 14 13 23-0224	LF	30" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	119.92	12.11
33 14 13 23-0225	LF	36" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	167.51	13.85
33 14 13 23-0226	LF	42" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	221.07	14.71
33 14 13 23-0227	LF	48" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	283.33	15.83
33 14 13 23-0228 AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)				
33 14 13 23-0229	LF	14" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	35.91	5.45
33 14 13 23-0230	LF	16" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	44.73	6.06
33 14 13 23-0231	LF	18" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	55.72	7.27
33 14 13 23-0232	LF	20" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	68.57	8.65
33 14 13 23-0233	LF	24" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	94.48	10.38
33 14 13 23-0234	LF	30" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	137.63	12.11
33 14 13 23-0235	LF	36" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	193.38	13.85
33 14 13 23-0236	LF	42" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	256.53	14.71
33 14 13 23-0237 AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)				
33 14 13 23-0238	LF	14" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	39.72	5.45
33 14 13 23-0239	LF	16" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	49.69	6.06
33 14 13 23-0240	LF	18" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	61.97	7.27
33 14 13 23-0241	LF	20" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	76.36	8.65
33 14 13 23-0242	LF	24" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	105.67	10.38
33 14 13 23-0243	LF	30" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	154.85	12.11
33 14 13 23-0244	LF	36" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	218.54	13.85
33 14 13 23-0245 AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)				
Note: Includes rubber gaskets.				



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 14 13 23-0246 90 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0245)				
33 14 13 23-0247	EA 4" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	102.44		9.80
	For DR 25, Deduct	-4.97		
33 14 13 23-0248	EA 6" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	202.90		11.03
	For DR 25, Deduct	-10.85		
33 14 13 23-0249	EA 8" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	301.50		12.25
	For DR 25, Deduct	-16.62		
33 14 13 23-0250	EA 10" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	461.27		19.60
	For DR 25, Deduct	-25.32		
33 14 13 23-0251	EA 12" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	525.75		32.68
	For DR 25, Deduct	-27.63		
33 14 13 23-0252	EA 14" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	903.42		40.85
	For DR 25, Deduct	-49.31		
33 14 13 23-0253	EA 16" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,078.34		49.01
	For DR 25, Deduct	-58.82		
33 14 13 23-0254	EA 18" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,836.02		65.35
	For DR 25, Deduct	-102.32		
33 14 13 23-0255	EA 20" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,261.15		81.69
	For DR 25, Deduct	-125.87		
33 14 13 23-0256	EA 24" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,734.08		110.27
	For DR 25, Deduct	-210.81		
33 14 13 23-0257 45 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0245)				
33 14 13 23-0258	EA 4" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	91.62		9.80
	For DR 25, Deduct	-4.32		
33 14 13 23-0259	EA 6" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	153.83		11.03
	For DR 25, Deduct	-7.91		
33 14 13 23-0260	EA 8" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	193.63		12.25
	For DR 25, Deduct	-10.15		
33 14 13 23-0261	EA 10" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	275.78		19.60
	For DR 25, Deduct	-14.19		
33 14 13 23-0262	EA 12" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	373.67		32.68
	For DR 25, Deduct	-18.50		
33 14 13 23-0263	EA 14" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	701.54		40.85
	For DR 25, Deduct	-37.19		
33 14 13 23-0264	EA 16" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	887.07		49.01
	For DR 25, Deduct	-47.34		
33 14 13 23-0265	EA 18" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,516.23		65.35
	For DR 25, Deduct	-83.13		
33 14 13 23-0266	EA 20" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,883.62		81.69
	For DR 25, Deduct	-103.22		
33 14 13 23-0267	EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,654.34		110.27
	For DR 25, Deduct	-146.03		
33 14 13 23-0268 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0245)				
33 14 13 23-0269	EA 4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	90.31		9.80
	For DR 25, Deduct	-4.24		
33 14 13 23-0270	EA 6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	153.83		11.03
	For DR 25, Deduct	-7.91		
33 14 13 23-0271	EA 8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	193.63		12.25
	For DR 25, Deduct	-10.15		
33 14 13 23-0272	EA 10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	275.79		19.60
	For DR 25, Deduct	-14.19		
33 14 13 23-0273	EA 12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	373.68		32.68
	For DR 25, Deduct	-18.50		
33 14 13 23-0274	EA 14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	698.25		39.21
	For DR 25, Deduct	-37.19		
33 14 13 23-0275	EA 16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	887.05		49.01
	For DR 25, Deduct	-47.34		
33 14 13 23-0276	EA 18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,516.23		65.35
	For DR 25, Deduct	-83.13		
33 14 13 23-0277	EA 20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,883.62		81.69
	For DR 25, Deduct	-103.22		
33 14 13 23-0278	EA 24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,654.34		110.27
	For DR 25, Deduct	-146.03		
33 14 13 23-0279 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0245)				
33 14 13 23-0280	EA 4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	80.63		9.80
	For DR 25, Deduct	-3.66		
33 14 13 23-0281	EA 6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	153.83		11.03
	For DR 25, Deduct	-7.91		
33 14 13 23-0282	EA 8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	193.63		12.25
	For DR 25, Deduct	-10.15		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0283 EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	275.79	19.60
For DR 25, Deduct	-14.19	
33 14 13 23-0284 EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	373.68	32.68
For DR 25, Deduct	-18.50	
33 14 13 23-0285 EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	698.25	39.21
For DR 25, Deduct	-37.19	
33 14 13 23-0286 EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	887.05	49.01
For DR 25, Deduct	-47.34	
33 14 13 23-0287 EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,516.23	65.35
For DR 25, Deduct	-83.13	
33 14 13 23-0288 EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,883.62	81.69
For DR 25, Deduct	-103.22	
33 14 13 23-0289 EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,654.34	110.27
For DR 25, Deduct	-146.03	
33 14 13 23-0290 Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)		
(33 14 13 23-0245)		
33 14 13 23-0291 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	121.28	11.03
For DR 25, Deduct	-5.95	
33 14 13 23-0292 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	227.36	12.25
For DR 25, Deduct	-12.17	
33 14 13 23-0293 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	314.84	13.89
For DR 25, Deduct	-17.22	
33 14 13 23-0294 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	646.25	24.50
For DR 25, Deduct	-35.83	
33 14 13 23-0295 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	803.45	49.01
For DR 25, Deduct	-42.33	
33 14 13 23-0296 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,430.10	61.26
For DR 25, Deduct	-78.46	
33 14 13 23-0297 EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,769.54	73.52
For DR 25, Deduct	-97.35	
33 14 13 23-0298 EA 18" Tee, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,236.77	98.02
For DR 25, Deduct	-122.44	
33 14 13 23-0299 EA 20" Tee, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,689.79	122.53
For DR 25, Deduct	-146.68	
33 14 13 23-0300 EA 24" Tee, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,625.10	83.32
For DR 25, Deduct	-207.51	
33 14 13 23-0301 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)		
(33 14 13 23-0245)		
33 14 13 23-0302 EA 6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	229.23	15.93
For DR 25, Deduct	-11.84	
33 14 13 23-0303 EA 8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	308.37	17.16
For DR 25, Deduct	-16.44	
33 14 13 23-0304 EA 8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	316.22	17.76
For DR 25, Deduct	-16.84	
33 14 13 23-0305 EA 10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,030.85	24.50
For DR 25, Deduct	-178.91	
33 14 13 23-0306 EA 10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	551.36	25.12
For DR 25, Deduct	-30.07	
33 14 13 23-0307 EA 10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	588.96	25.73
For DR 25, Deduct	-32.25	
33 14 13 23-0308 EA 12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	632.31	37.58
For DR 25, Deduct	-33.43	
33 14 13 23-0309 EA 12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	722.04	38.18
For DR 25, Deduct	-38.74	
33 14 13 23-0310 EA 12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	764.69	38.80
For DR 25, Deduct	-41.22	
33 14 13 23-0311 EA 12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	781.36	42.47
For DR 25, Deduct	-41.78	
33 14 13 23-0312 EA 14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,170.94	44.11
For DR 25, Deduct	-64.96	
33 14 13 23-0313 EA 14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,217.14	44.72
For DR 25, Deduct	-67.66	
33 14 13 23-0314 EA 14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,263.47	45.34
For DR 25, Deduct	-70.37	
33 14 13 23-0315 EA 14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,315.65	49.01
For DR 25, Deduct	-73.06	
33 14 13 23-0316 EA 14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,373.72	55.55
For DR 25, Deduct	-75.76	
33 14 13 23-0317 EA 16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,460.43	53.91
For DR 25, Deduct	-81.16	
33 14 13 23-0318 EA 16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,505.40	53.91
For DR 25, Deduct	-83.85	
33 14 13 23-0319 EA 16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,551.60	54.53
For DR 25, Deduct	-86.55	
33 14 13 23-0320 EA 16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,597.81	55.14
For DR 25, Deduct	-89.25	
33 14 13 23-0321 EA 16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,663.20	65.35
For DR 25, Deduct	-91.95	
33 14 13 23-0322 EA 16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,714.71	68.62
For DR 25, Deduct	-94.65	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
33 14 13 23-0323	EA 18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,807.63		70.25	
	For DR 25, Deduct	-100.03			
33 14 13 23-0324	EA 18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,854.16		70.86	
	For DR 25, Deduct	-102.75			
33 14 13 23-0325	EA 18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,900.36		71.47	
	For DR 25, Deduct	-105.44			
33 14 13 23-0326	EA 18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,952.70		75.15	
	For DR 25, Deduct	-108.14			
33 14 13 23-0327	EA 18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,010.72		81.69	
	For DR 25, Deduct	-110.84			
33 14 13 23-0328	EA 18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,061.93		84.96	
	For DR 25, Deduct	-113.52			
33 14 13 23-0329	EA 18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,127.58		89.86	
	For DR 25, Deduct	-116.87			
33 14 13 23-0330	EA 20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,290.71		86.59	
	For DR 25, Deduct	-127.05			
33 14 13 23-0331	EA 20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,368.73		87.20	
	For DR 25, Deduct	-131.66			
33 14 13 23-0332	EA 20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,399.74		87.82	
	For DR 25, Deduct	-133.45			
33 14 13 23-0333	EA 20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,436.90		91.49	
	For DR 25, Deduct	-135.24			
33 14 13 23-0334	EA 20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,479.76		98.02	
	For DR 25, Deduct	-137.02			
33 14 13 23-0335	EA 20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,534.59		101.29	
	For DR 25, Deduct	-139.92			
33 14 13 23-0336	EA 20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,592.68		106.19	
	For DR 25, Deduct	-142.82			
33 14 13 23-0337	EA 20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,641.24		114.36	
	For DR 25, Deduct	-144.75			
33 14 13 23-0338	EA 24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,707.29		115.18	
	For DR 25, Deduct	-148.62			
33 14 13 23-0339	EA 24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,740.74		115.79	
	For DR 25, Deduct	-150.55			
33 14 13 23-0340	EA 24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,774.18		116.40	
	For DR 25, Deduct	-152.48			
33 14 13 23-0341	EA 24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,912.54		120.08	
	For DR 25, Deduct	-160.34			
33 14 13 23-0342	EA 24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,056.61		126.62	
	For DR 25, Deduct	-168.20			
33 14 13 23-0343	EA 24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,194.17		129.88	
	For DR 25, Deduct	-176.06			
33 14 13 23-0344	EA 24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,334.99		134.79	
	For DR 25, Deduct	-183.93			
33 14 13 23-0345	EA 24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,482.34		142.95	
	For DR 25, Deduct	-191.79			
33 14 13 23-0346	EA 24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,629.68		151.12	
	For DR 25, Deduct	-199.65			
33 14 13 23-0347	Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0245)				
33 14 13 23-0348	EA 4" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	171.52		19.60	
	For DR 25, Deduct	-7.94			
33 14 13 23-0349	EA 6" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	298.03		22.05	
	For DR 25, Deduct	-15.24			
33 14 13 23-0350	EA 8" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	408.02		24.50	
	For DR 25, Deduct	-21.54			
33 14 13 23-0351	EA 10" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	824.64		39.21	
	For DR 25, Deduct	-44.77			
33 14 13 23-0352	EA 12" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	979.99		49.01	
	For DR 25, Deduct	-52.92			
33 14 13 23-0353	EA 14" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,765.28		65.35	
	For DR 25, Deduct	-98.07			
33 14 13 23-0354	EA 16" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,191.11		81.69	
	For DR 25, Deduct	-121.67			
33 14 13 23-0355	EA 18" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,812.68		130.70	
	For DR 25, Deduct	-153.08			
33 14 13 23-0356	EA 20" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,382.71		163.37	
	For DR 25, Deduct	-183.36			
33 14 13 23-0357	EA 24" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,763.93		220.56	
	For DR 25, Deduct	-259.37			
33 14 13 23-0358	Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0245)				
33 14 13 23-0359	EA 6" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	288.57		20.83	
	For DR 25, Deduct	-14.82			
33 14 13 23-0360	EA 8" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	387.11		22.05	
	For DR 25, Deduct	-20.58			
33 14 13 23-0361	EA 8" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	397.50		23.27	
	For DR 25, Deduct	-21.06			
33 14 13 23-0362	EA 10" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	592.23		29.41	
	For DR 25, Deduct	-32.00			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0363	EA	10" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	687.74	30.64
		<i>For DR 25, Deduct</i>	-37.59	
33 14 13 23-0364	EA	10" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	754.14	31.85
		<i>For DR 25, Deduct</i>	-41.43	
33 14 13 23-0365	EA	12" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	781.64	42.47
		<i>For DR 25, Deduct</i>	-41.80	
33 14 13 23-0366	EA	12" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	894.43	43.70
		<i>For DR 25, Deduct</i>	-48.42	
33 14 13 23-0367	EA	12" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	948.68	44.93
		<i>For DR 25, Deduct</i>	-51.53	
33 14 13 23-0368	EA	12" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	974.98	52.28
		<i>For DR 25, Deduct</i>	-52.23	
33 14 13 23-0369	EA	14" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,451.42	49.01
		<i>For DR 25, Deduct</i>	-81.20	
33 14 13 23-0370	EA	14" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,509.93	50.24
		<i>For DR 25, Deduct</i>	-84.57	
33 14 13 23-0371	EA	14" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,569.05	51.47
		<i>For DR 25, Deduct</i>	-87.97	
33 14 13 23-0372	EA	14" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,640.20	58.82
		<i>For DR 25, Deduct</i>	-91.35	
33 14 13 23-0373	EA	14" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,722.35	71.88
		<i>For DR 25, Deduct</i>	-94.71	
33 14 13 23-0374	EA	16" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,808.11	58.82
		<i>For DR 25, Deduct</i>	-101.43	
33 14 13 23-0375	EA	16" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,867.37	60.04
		<i>For DR 25, Deduct</i>	-104.84	
33 14 13 23-0376	EA	16" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,926.01	61.26
		<i>For DR 25, Deduct</i>	-108.21	
33 14 13 23-0377	EA	16" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,997.10	68.62
		<i>For DR 25, Deduct</i>	-111.59	
33 14 13 23-0378	EA	16" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,039.21	81.69
		<i>For DR 25, Deduct</i>	-112.55	
33 14 13 23-0379	EA	16" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,148.47	88.22
		<i>For DR 25, Deduct</i>	-118.32	
33 14 13 23-0380	EA	18" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,234.51	75.15
		<i>For DR 25, Deduct</i>	-125.05	
33 14 13 23-0381	EA	18" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,293.63	76.38
		<i>For DR 25, Deduct</i>	-128.45	
33 14 13 23-0382	EA	18" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,352.35	77.61
		<i>For DR 25, Deduct</i>	-131.83	
33 14 13 23-0383	EA	18" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,422.61	84.96
		<i>For DR 25, Deduct</i>	-135.16	
33 14 13 23-0384	EA	18" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,505.43	98.02
		<i>For DR 25, Deduct</i>	-138.56	
33 14 13 23-0385	EA	18" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,574.51	104.56
		<i>For DR 25, Deduct</i>	-141.92	
33 14 13 23-0386	EA	18" x 16" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,663.84	114.36
		<i>For DR 25, Deduct</i>	-146.11	
33 14 13 23-0387	EA	20" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,830.16	91.49
		<i>For DR 25, Deduct</i>	-158.83	
33 14 13 23-0388	EA	20" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,928.45	92.71
		<i>For DR 25, Deduct</i>	-164.58	
33 14 13 23-0389	EA	20" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,968.40	93.94
		<i>For DR 25, Deduct</i>	-166.83	
33 14 13 23-0390	EA	20" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,020.21	101.29
		<i>For DR 25, Deduct</i>	-169.06	
33 14 13 23-0391	EA	20" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,083.45	114.36
		<i>For DR 25, Deduct</i>	-171.28	
33 14 13 23-0392	EA	20" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,156.46	120.90
		<i>For DR 25, Deduct</i>	-174.88	
33 14 13 23-0393	EA	20" x 16" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,237.21	130.70
		<i>For DR 25, Deduct</i>	-178.55	
33 14 13 23-0394	EA	20" x 18" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,310.03	147.04
		<i>For DR 25, Deduct</i>	-180.96	
33 14 13 23-0395	EA	24" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,318.44	120.08
		<i>For DR 25, Deduct</i>	-184.70	
33 14 13 23-0396	EA	24" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,379.25	121.31
		<i>For DR 25, Deduct</i>	-188.20	
33 14 13 23-0397	EA	24" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,422.14	122.53
		<i>For DR 25, Deduct</i>	-190.62	
33 14 13 23-0398	EA	24" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,600.42	129.88
		<i>For DR 25, Deduct</i>	-200.44	
33 14 13 23-0399	EA	24" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,790.20	142.95
		<i>For DR 25, Deduct</i>	-210.26	
33 14 13 23-0400	EA	24" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,966.86	149.49
		<i>For DR 25, Deduct</i>	-220.07	
33 14 13 23-0401	EA	24" x 16" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,150.77	159.29
		<i>For DR 25, Deduct</i>	-229.93	
33 14 13 23-0402	EA	24" x 18" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,346.69	175.63
		<i>For DR 25, Deduct</i>	-239.73	
33 14 13 23-0403	EA	24" x 20" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,543.33	191.97
		<i>For DR 25, Deduct</i>	-249.56	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 23-0404	Couplings, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0245)			
33 14 13 23-0405	EA 4" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	64.22		9.80
	For DR 25, Deduct	-2.68		
33 14 13 23-0406	EA 6" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	114.14		11.03
	For DR 25, Deduct	-5.53		
33 14 13 23-0407	EA 8" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	136.62		12.25
	For DR 25, Deduct	-6.73		
33 14 13 23-0408	EA 10" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	196.03		19.60
	For DR 25, Deduct	-9.41		
33 14 13 23-0409	EA 12" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	306.69		24.50
	For DR 25, Deduct	-15.46		
33 14 13 23-0410	EA 14" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	524.52		32.68
	For DR 25, Deduct	-27.55		
33 14 13 23-0411	EA 16" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	622.99		40.85
	For DR 25, Deduct	-32.48		
33 14 13 23-0412	EA 18" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,466.47		65.35
	For DR 25, Deduct	-80.15		
33 14 13 23-0413	EA 20" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,650.49		81.69
	For DR 25, Deduct	-89.23		
33 14 13 23-0414	EA 24" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,320.29		110.27
	For DR 25, Deduct	-125.98		
33 14 13 23-0415	Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0245)			
33 14 13 23-0416	EA 4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	77.80		9.80
	For DR 25, Deduct	-3.49		
33 14 13 23-0417	EA 6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	103.95		11.03
	For DR 25, Deduct	-4.91		
33 14 13 23-0418	EA 8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	148.22		12.25
	For DR 25, Deduct	-7.42		
33 14 13 23-0419	EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	205.09		19.60
	For DR 25, Deduct	-9.95		
33 14 13 23-0420	EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	329.62		32.68
	For DR 25, Deduct	-15.86		
33 14 13 23-0421	EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	838.37		39.21
	For DR 25, Deduct	-45.60		
33 14 13 23-0422	EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,131.73		49.01
	For DR 25, Deduct	-62.02		
33 14 13 23-0423	EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,398.27		65.35
	For DR 25, Deduct	-76.05		
33 14 13 23-0424	EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,673.33		81.69
	For DR 25, Deduct	-90.60		
33 14 13 23-0425	EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,272.64		110.27
	For DR 25, Deduct	-123.12		
33 14 13 23-0426	AWWA C906, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)			
	Note: ASTM D3350 pipe, ASTM D2657 heat fusion.			
33 14 13 23-0427	High Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0426)			
33 14 13 23-0428	LF 3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	5.92		2.25
	For DR 19 (89 PSI), Add	0.12		
	For DR 17 (100 PSI), Add	0.31		
	For DR 15.5 (110 PSI), Add	0.45		
	For DR 13.5 (128 PSI), Add	0.70		
	For DR 11 (160 PSI), Add	1.13		
33 14 13 23-0429	LF 4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	9.41		2.86
	For DR 26 (65 PSI), Deduct	-0.68		
	For DR 19 (89 PSI), Add	0.33		
	For DR 17 (100 PSI), Add	0.82		
	For DR 15.5 (110 PSI), Add	1.20		
	For DR 13.5 (128 PSI), Add	1.88		
	For DR 11 (160 PSI), Add	3.02		
33 14 13 23-0430	LF 6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	14.91		3.46
	For DR 26 (65 PSI), Deduct	-1.46		
	For DR 19 (89 PSI), Add	0.72		
	For DR 17 (100 PSI), Add	1.78		
	For DR 15.5 (110 PSI), Add	2.60		
	For DR 13.5 (128 PSI), Add	4.06		
	For DR 11 (160 PSI), Add	6.53		
33 14 13 23-0431	LF 8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	21.35		3.89
	For DR 26 (65 PSI), Deduct	-2.49		
	For DR 19 (89 PSI), Add	1.22		
	For DR 17 (100 PSI), Add	3.01		
	For DR 15.5 (110 PSI), Add	4.41		
	For DR 13.5 (128 PSI), Add	6.89		
	For DR 11 (160 PSI), Add	11.09		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0432 LF 10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	29.74	4.33
For DR 26 (65 PSI), Deduct	-3.87	
For DR 19 (89 PSI), Add	1.90	
For DR 17 (100 PSI), Add	4.69	
For DR 15.5 (110 PSI), Add	6.86	
For DR 13.5 (128 PSI), Add	10.71	
For DR 11 (160 PSI), Add	17.24	
33 14 13 23-0433 LF 12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	40.00	48.45
For DR 26 (65 PSI), Deduct	-5.57	
For DR 19 (89 PSI), Add	2.74	
For DR 17 (100 PSI), Add	6.75	
For DR 15.5 (110 PSI), Add	9.89	
For DR 13.5 (128 PSI), Add	15.44	
For DR 11 (160 PSI), Add	24.85	
33 14 13 23-0434 LF 14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	46.56	5.45
For DR 26 (65 PSI), Deduct	-6.55	
For DR 19 (89 PSI), Add	3.22	
For DR 17 (100 PSI), Add	7.94	
For DR 15.5 (110 PSI), Add	11.63	
For DR 13.5 (128 PSI), Add	18.15	
For DR 11 (160 PSI), Add	29.22	
33 14 13 23-0435 LF 16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	58.80	6.06
For DR 26 (65 PSI), Deduct	-8.56	
For DR 19 (89 PSI), Add	4.20	
For DR 17 (100 PSI), Add	10.37	
For DR 15.5 (110 PSI), Add	15.19	
For DR 13.5 (128 PSI), Add	23.71	
For DR 11 (160 PSI), Add	38.17	
33 14 13 23-0436 LF 18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	73.59	7.27
For DR 26 (65 PSI), Deduct	-10.82	
For DR 19 (89 PSI), Add	5.31	
For DR 17 (100 PSI), Add	13.11	
For DR 15.5 (110 PSI), Add	19.20	
For DR 13.5 (128 PSI), Add	29.97	
For DR 11 (160 PSI), Add	48.24	
33 14 13 23-0437 LF 20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	61.77	8.65
For DR 26 (65 PSI), Deduct	-8.15	
For DR 19 (89 PSI), Add	4.00	
For DR 17 (100 PSI), Add	9.88	
For DR 15.5 (110 PSI), Add	14.47	
For DR 13.5 (128 PSI), Add	22.58	
For DR 11 (160 PSI), Add	36.35	
33 14 13 23-0438 LF 24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	125.76	10.38
For DR 26 (65 PSI), Deduct	-19.25	
For DR 19 (89 PSI), Add	9.45	
For DR 17 (100 PSI), Add	23.33	
For DR 15.5 (110 PSI), Add	34.17	
For DR 13.5 (128 PSI), Add	53.33	
For DR 11 (160 PSI), Add	85.84	
33 14 13 23-0439 90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)		
33 14 13 23-0440 EA 3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	54.72	12.25
For DR 26 (65 PSI), Deduct	-3.29	
For DR 19 (89 PSI), Add	1.62	
For DR 17 (100 PSI), Add	3.99	
For DR 15.5 (110 PSI), Add	5.84	
For DR 13.5 (128 PSI), Add	9.12	
For DR 11 (160 PSI), Add	14.68	
33 14 13 23-0441 EA 4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	62.23	13.63
For DR 26 (65 PSI), Deduct	-3.92	
For DR 19 (89 PSI), Add	1.93	
For DR 17 (100 PSI), Add	4.76	
For DR 15.5 (110 PSI), Add	6.96	
For DR 13.5 (128 PSI), Add	10.87	
For DR 11 (160 PSI), Add	17.49	
33 14 13 23-0442 EA 6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	103.56	15.56
For DR 26 (65 PSI), Deduct	-10.43	
For DR 19 (89 PSI), Add	5.12	
For DR 17 (100 PSI), Add	12.65	
For DR 15.5 (110 PSI), Add	18.52	
For DR 13.5 (128 PSI), Add	28.91	
For DR 11 (160 PSI), Add	46.53	
33 14 13 23-0443 EA 8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	173.45	18.17
For DR 26 (65 PSI), Deduct	-21.81	
For DR 19 (89 PSI), Add	10.71	
For DR 17 (100 PSI), Add	26.44	
For DR 15.5 (110 PSI), Add	38.72	
For DR 13.5 (128 PSI), Add	60.43	
For DR 11 (160 PSI), Add	97.27	



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0444	EA	10"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	271.19 -36.40 17.87 44.12 64.62 100.86 162.34	24.26
33 14 13 23-0445	EA	12"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	399.66 -53.30 26.17 64.61 94.62 147.69 237.72	36.30
33 14 13 23-0446	EA	14"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	491.92 -63.54 31.20 77.03 112.80 176.06 283.39	48.45
33 14 13 23-0447	EA	16"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	632.86 -76.09 37.36 92.24 135.08 210.84 339.37	72.61
33 14 13 23-0448	EA	18"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	809.96 -103.55 50.84 125.53 183.82 286.92 461.82	81.67
33 14 13 23-0449	EA	20"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	1,130.47 -155.72 76.46 188.76 276.43 431.47 694.48	92.70
33 14 13 23-0450	EA	24"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	1,460.82 -207.88 102.07 252.00 369.04 576.02 927.14	108.95
33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)					
33 14 13 23-0452	EA	3"	Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	61.88 -4.31 2.11 5.22 7.64 11.93 19.20	12.83
33 14 13 23-0453	EA	4"	Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	71.19 -5.07 2.49 6.14 9.00 14.04 22.60	14.53
33 14 13 23-0454	EA	6"	Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	122.50 -13.25 6.50 16.06 23.52 36.71 59.08	16.76
33 14 13 23-0455	EA	8"	Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	242.72 -33.61 16.50 40.74 59.66 93.12 149.88	19.81
33 14 13 23-0456	EA	10"	Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping..... <i>For DR 26 (65 PSI), Deduct</i> <i>For DR 19 (89 PSI), Add</i> <i>For DR 17 (100 PSI), Add</i> <i>For DR 15.5 (110 PSI), Add</i> <i>For DR 13.5 (128 PSI), Add</i> <i>For DR 11 (160 PSI), Add</i>	328.68 -44.28 21.74 53.67 78.60 122.68 197.47	29.08

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0457 EA 12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping For DR 26 (65 PSI), Deduct For DR 19 (89 PSI), Add For DR 17 (100 PSI), Add For DR 15.5 (110 PSI), Add For DR 13.5 (128 PSI), Add For DR 11 (160 PSI), Add	460.53 -60.46 29.68 73.29 107.32 167.52 269.63	43.62
33 14 13 23-0458 EA 14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping For DR 26 (65 PSI), Deduct For DR 19 (89 PSI), Add For DR 17 (100 PSI), Add For DR 15.5 (110 PSI), Add For DR 13.5 (128 PSI), Add For DR 11 (160 PSI), Add	551.37 -71.12 34.92 86.22 126.26 197.08 317.21	54.48
33 14 13 23-0459 EA 16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping For DR 26 (65 PSI), Deduct For DR 19 (89 PSI), Add For DR 17 (100 PSI), Add For DR 15.5 (110 PSI), Add For DR 13.5 (128 PSI), Add For DR 11 (160 PSI), Add	705.92 -84.46 41.47 102.39 149.94 234.03 376.69	81.67
33 14 13 23-0460 EA 18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping For DR 26 (65 PSI), Deduct For DR 19 (89 PSI), Add For DR 17 (100 PSI), Add For DR 15.5 (110 PSI), Add For DR 13.5 (128 PSI), Add For DR 11 (160 PSI), Add	925.64 -117.36 57.62 142.26 208.33 325.18 523.40	95.15
33 14 13 23-0461 EA 20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping For DR 26 (65 PSI), Deduct For DR 19 (89 PSI), Add For DR 17 (100 PSI), Add For DR 15.5 (110 PSI), Add For DR 13.5 (128 PSI), Add For DR 11 (160 PSI), Add	1,327.97 -180.92 88.83 219.32 321.18 501.32 806.91	112.38
33 14 13 23-0462 EA 24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping For DR 26 (65 PSI), Deduct For DR 19 (89 PSI), Add For DR 17 (100 PSI), Add For DR 15.5 (110 PSI), Add For DR 13.5 (128 PSI), Add For DR 11 (160 PSI), Add	1,742.21 -244.49 120.05 296.38 434.03 677.46 1,090.41	136.23

33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping (33 14 13)

See CSI section 22 11 16 00-0013 for galvanized steel pipe.

33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)**33 14 13 36-0001 Steel Piping (33 14 13 36)****33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)**

Note: ASTM A252 steel pipe.

33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0004 LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	44.13 -2.21	21.70
33 14 13 36-0005 LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	47.72 -2.39	21.70
33 14 13 36-0006 LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	49.95 -2.50	23.66
33 14 13 36-0007 LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	54.48 -2.72	23.66
33 14 13 36-0008 LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	55.89 -2.79	24.79
33 14 13 36-0009 LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	59.41 -2.97	24.79
33 14 13 36-0010 LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	82.21 -4.11	27.41
33 14 13 36-0011 LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	67.40 -3.37	27.41
33 14 13 36-0012 LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	68.35 -3.42	28.93
33 14 13 36-0013 LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	70.52 -3.53	28.93
33 14 13 36-0014 LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	80.77 -4.04	32.54
33 14 13 36-0015 LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	84.34 -4.22	32.54

33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0017 LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe For >1,000, Deduct	71.09 -3.55	42.27



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 36-0018	LF	14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	81.55 -4.08	46.50
33 14 13 36-0019	LF	16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	88.48 -4.42	48.61
33 14 13 36-0020	LF	18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	99.69 -4.98	54.95
33 14 13 36-0021	LF	18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	102.11 -5.11	54.95
33 14 13 36-0022	LF	20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	104.34 -5.22	54.95
33 14 13 36-0023	LF	20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	106.92 -5.35	54.95
33 14 13 36-0024	LF	24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	123.20 -6.16	63.40
33 14 13 36-0025	LF	24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	131.17 -6.56	63.40
33 14 13 36-0026	LF	24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	150.74 -7.54	63.40
33 14 13 36-0027	LF	30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	149.17 -7.46	73.98
33 14 13 36-0028	LF	30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	152.43 -7.62	73.98
33 14 13 36-0029	LF	30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	183.19 -9.16	73.98
33 14 13 36-0030	LF	36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	166.08 -8.30	73.98
33 14 13 36-0031	LF	36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	196.38 -9.82	88.77
33 14 13 36-0032	LF	36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	220.24 -11.01	88.77
33 14 13 36-0033	LF	36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	214.28 -10.71	88.77
33 14 13 36-0034	LF	42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	297.58 -14.88	99.33
33 14 13 36-0035	LF	42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	212.51 -10.63	99.33
33 14 13 36-0036	LF	48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	339.49 -16.97	112.02
33 14 13 36-0037	LF	54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	364.34 -18.22	126.81
33 14 13 36-0038	LF	48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	235.41 -11.77	112.02
33 14 13 36-0039	LF	54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	391.52 -19.58	126.81
33 14 13 36-0040	LF	60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	442.86 -22.14	147.94
33 14 13 36-0041	LF	66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	346.23 -17.31	147.94
33 14 13 36-0042	LF	72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	438.01 -21.90	120.76
33 14 13 36-0043	LF	78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... <i>For >1,000, Deduct</i>	656.22 -32.81	120.76
33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)				
33 14 13 36-0045	EA	2" Dresser Coupling For Plain End Welded Steel Pipe.....	100.98	22.15
33 14 13 36-0046	EA	3" Dresser Coupling For Plain End Welded Steel Pipe.....	146.17	42.60
33 14 13 36-0047	EA	4" Dresser Coupling For Plain End Welded Steel Pipe.....	194.49	56.24
33 14 13 36-0048	EA	6" Dresser Coupling For Plain End Welded Steel Pipe.....	311.39	85.21
33 14 13 36-0049	EA	8" Dresser Coupling For Plain End Welded Steel Pipe.....	408.76	107.36
33 14 13 36-0050	EA	10" Dresser Coupling For Plain End Welded Steel Pipe.....	555.77	125.40
33 14 13 36-0051	EA	12" Dresser Coupling For Plain End Welded Steel Pipe.....	657.78	157.17
33 14 13 36-0052	EA	14" Dresser Coupling For Plain End Welded Steel Pipe.....	708.57	157.17
33 14 13 36-0053	EA	16" Dresser Coupling For Plain End Welded Steel Pipe.....	748.08	167.20
33 14 13 36-0054	EA	18" Dresser Coupling For Plain End Welded Steel Pipe.....	820.72	192.28
33 14 13 36-0055	EA	20" Dresser Coupling For Plain End Welded Steel Pipe.....	895.36	217.36
33 14 13 36-0056	EA	24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,138.06	229.90
33 14 13 36-0057	EA	30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,370.46	250.81
33 14 13 36-0058	EA	36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,610.04	282.16
33 14 13 36-0059	EA	42" Dresser Coupling For Plain End Welded Steel Pipe.....	1,861.62	317.69
33 14 13 36-0060	EA	48" Dresser Coupling For Plain End Welded Steel Pipe.....	2,165.31	365.76
33 14 13 36-0061	EA	54" Dresser Coupling For Plain End Welded Steel Pipe.....	2,398.59	418.00
33 14 13 36-0062	EA	60" Dresser Coupling For Plain End Welded Steel Pipe.....	2,751.84	522.51
33 14 13 36-0063	EA	66" Dresser Coupling For Plain End Welded Steel Pipe.....	3,165.17	635.37
33 14 13 36-0064	EA	72" Dresser Coupling For Plain End Welded Steel Pipe.....	3,771.42	752.41
33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)				
33 14 13 39-0001 Type L Copper Water Distribution Piping (33 14 13 39)				
33 14 13 39-0002	LF	1/2" Type L Copper Water Distribution Pipe	5.12	1.59
33 14 13 39-0003	LF	3/4" Type L Copper Water Distribution Pipe	6.20	1.78
33 14 13 39-0004	LF	1" Type L Copper Water Distribution Pipe	8.12	1.98

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 39-0005 LF 1-1/4" Type L Copper Water Distribution Pipe	10.00	2.37
33 14 13 39-0006 LF 1-1/2" Type L Copper Water Distribution Pipe	12.22	3.16
33 14 13 39-0007 LF 2" Type L Copper Water Distribution Pipe	17.27	3.95
33 14 13 39-0008 LF 2-1/2" Type L Copper Water Distribution Pipe	22.14	4.75
33 14 13 39-0009 LF 3" Type L Copper Water Distribution Pipe	27.37	5.22
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe	36.89	6.56
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe	48.50	8.31
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe	76.14	10.36
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe	97.83	12.50
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe	163.71	14.00
33 14 13 39-0015 Type K Copper Water Distribution Piping (33 14 13 39)		
33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe	5.39	1.59
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe	7.14	1.78
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe	9.05	1.98
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe	10.57	2.37
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe	13.07	3.16
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe	18.42	3.95
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe	25.33	4.75
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe	32.15	5.22
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe	42.51	6.56
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe	57.02	8.31
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe	93.77	10.36
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe	129.53	12.50
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe	222.23	14.00
33 14 13 43 Public Water Utility Distribution Piping Coatings And Wraps (33 14 13)		
33 14 13 43-0001 Pipe Coatings (33 14 13 43)		
33 14 13 43-0002 Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating (33 14 13 43-0001)		
33 14 13 43-0003 LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	4.05	
33 14 13 43-0004 LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	5.38	
33 14 13 43-0005 LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.13	
33 14 13 43-0006 LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.45	
33 14 13 43-0007 LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.94	
33 14 13 43-0008 LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	8.09	
33 14 13 43-0009 LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	10.62	
33 14 13 43-0010 LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	16.78	
33 14 13 43-0011 LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	36.18	
33 14 13 43-0012 LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	41.35	
33 14 13 43-0013 LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	46.51	
33 14 13 43-0014 LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	51.68	
33 14 13 43-0015 LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	56.85	
33 14 13 43-0016 LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	61.99	
33 14 13 43-0017 LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	67.19	
33 14 13 43-0018 Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)		
Note: Applied at fabrication shop. Thickness ranging between 1" and 2".		
33 14 13 43-0019 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh	7.98	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0020 LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh	9.82	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0021 LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh	12.27	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0022 LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh	13.67	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0023 LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh	15.44	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0024 LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh	18.07	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0025 LF 16" Diameter Cement Coated Pipe 1" To 2" Mesh	20.53	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0026 LF 18" Diameter Cement Coated Pipe 1" To 2" Mesh	23.16	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0027 LF 20" Diameter Cement Coated Pipe 1" To 2" Mesh	25.74	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0028 LF 24" Diameter Cement Coated Pipe 1" To 2" Mesh	30.87	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0029 LF 30" Diameter Cement Coated Pipe 1" To 2" Mesh	38.59	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0030 LF 36" Diameter Cement Coated Pipe 1" To 2" Mesh	46.31	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0031 LF 42" Diameter Cement Coated Pipe 1" To 2" Mesh	25.10	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0032 LF 48" Diameter Cement Coated Pipe 1" To 2" Mesh	28.68	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0033 LF 54" Diameter Cement Coated Pipe 1" To 2" Mesh	32.27	
Note: Reinforcing applied at fabrication shop.		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0034	LF	60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	35.85	
33 14 13 43-0035	LF	66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	39.44	
33 14 13 43-0036	LF	72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	43.02	
33 14 13 43-0037	LF	78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	46.61	
33 14 13 43-0038 Pipe Lining (33 14 13 43)				
33 14 13 43-0039 Cement Pipe Lining (33 14 13 43-0038)				
Note: Shop applied.				
33 14 13 43-0040	LF	4" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	11.22 1.06	
33 14 13 43-0041	LF	6" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	13.91 1.31	
33 14 13 43-0042	LF	8" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	17.03 1.64	
33 14 13 43-0043	LF	10" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	22.02 2.05	
33 14 13 43-0044	LF	12" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	27.04 2.46	
33 14 13 43-0045	LF	14" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	34.29 2.88	
33 14 13 43-0046	LF	16" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	43.99 3.27	
33 14 13 43-0047	LF	18" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	52.36 3.14	
33 14 13 43-0048	LF	20" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	62.89 3.49	
33 14 13 43-0049	LF	24" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	76.19 4.18	
33 14 13 43-0050	LF	30" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	91.93 5.23	
33 14 13 43-0051	LF	36" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	110.61 6.27	
33 14 13 43-0052	LF	42" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	129.07 5.38	
33 14 13 43-0053	LF	48" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	147.45 6.15	
33 14 13 43-0054	LF	54" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	165.91 6.92	
33 14 13 43-0055	LF	60" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	184.37 7.69	
33 14 13 43-0056	LF	66" Outside Diameter, 7/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	202.76 4.51	
33 14 13 43-0057	LF	72" Outside Diameter, 7/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	221.21 4.92	
33 14 13 43-0058	LF	78" Outside Diameter, 7/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	239.67 5.33	
33 14 13 43-0059 Cement Fitting Lining (33 14 13 43-0038)				
Note: Shop applied.				
33 14 13 43-0060	EA	4" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	11.22 1.06	
33 14 13 43-0061	EA	6" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	13.91 1.31	
33 14 13 43-0062	EA	8" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	21.68 2.13	
33 14 13 43-0063	EA	10" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	35.52 3.27	
33 14 13 43-0064	EA	12" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	54.09 4.92	
33 14 13 43-0065	EA	14" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	79.54 6.62	
33 14 13 43-0066	EA	16" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	116.23 8.50	
33 14 13 43-0067	EA	18" Outside Diameter, 5/16" Thick Cement Fittings Lining For 1/2" Thick, Add	157.07 9.41	
33 14 13 43-0068	EA	20" Outside Diameter, 5/16" Thick Cement Fitting Lining For 1/2" Thick, Add	209.50 11.61	
33 14 13 43-0069	EA	24" Outside Diameter, 5/16" Thick Cement Fitting Lining For 1/2" Thick, Add	304.79 16.73	
33 14 13 43-0070 8 Mil Polyethylene Encasement Tubing (33 14 13 43)				
Note: ANSI/AWWA C105/A21.5-99 section 4.2.				
33 14 13 43-0071	LF	3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	0.83	
33 14 13 43-0072	LF	10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.36	
33 14 13 43-0073	LF	14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.69	
33 14 13 43-0074	LF	18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.14	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**
 MINOR
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 TOTAL DIRECT
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DEMOLITION
UNIT COST

33 14 13 43-0075	LF	24" Diameter, 8 Mil Polyethylene Encasement Tubing	2.97	
33 14 13 43-0076	LF	30" Diameter, 8 Mil Polyethylene Encasement Tubing	3.82	
33 14 13 43-0077	LF	36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing	4.86	
33 14 13 43-0078	LF	48" Diameter, 8 Mil Polyethylene Encasement Tubing	5.79	
33 14 13 43-0079	LF	54" Diameter, 8 Mil Polyethylene Encasement Tubing	6.89	
33 14 13 43-0080	LF	60" Diameter, 8 Mil Polyethylene Encasement Tubing	7.63	

33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)**33 14 13 53-0001****Double Stud Stainless Steel Service Saddles (33 14 13 53)**

Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.

33 14 13 53-0002	EA	4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	217.46	
33 14 13 53-0003	EA	4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	315.44	
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	324.77	
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	264.17	
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	336.04	
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	275.33	
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	351.47	
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	312.22	
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	370.19	
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	325.01	
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	381.02	

33 14 13 53-0013**Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53)**

Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.

33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	175.03	
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	175.18	
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	186.28	
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	178.62	
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	191.20	
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	212.94	
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	226.64	
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	206.17	
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	228.10	
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	239.51	
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	217.39	
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	240.10	
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	251.43	
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	229.10	
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	251.07	
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	262.23	
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	401.51	
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	410.84	
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	249.24	
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	276.22	
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	286.43	
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	479.47	
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	281.83	
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	314.59	
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	538.98	
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	308.28	
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	343.05	
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	354.98	
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	605.34	
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	365.13	
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	391.94	
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	423.70	
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	753.82	
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	374.47	
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	430.97	
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	449.00	
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	812.21	
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	391.42	
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	450.09	
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	468.63	
33 14 13 53-0054	EA	16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	845.47	
33 14 13 53-0055	EA	18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	436.58	
33 14 13 53-0056	EA	18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	508.87	
33 14 13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	502.75	
33 14 13 53-0058	EA	20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	558.28	
33 14 13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	525.46	



Utilities			33
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0060	EA	24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	596.38	
33 14 13 53-0061 Double Bale Bronze Service Saddles (33 14 13 53)				
33 14 13 53-0062	EA	4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	249.65	
33 14 13 53-0063	EA	4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	274.10	
33 14 13 53-0064	EA	6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	284.48	
33 14 13 53-0065	EA	6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	309.18	
33 14 13 53-0066	EA	8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	319.31	
33 14 13 53-0067	EA	8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	335.62	
33 14 13 53-0068	EA	10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	306.29	
33 14 13 53-0069	EA	10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	326.44	
33 14 13 53-0070	EA	12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	397.70	
33 14 13 53-0071	EA	12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	431.63	
33 14 13 53-0072	EA	14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	618.07	
33 14 13 53-0073	EA	14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	702.11	
33 14 13 53-0074	EA	16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	722.23	
33 14 13 53-0075	EA	16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	809.90	
33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)				
Note: Taps are compression or NPT.				
33 14 13 53-0077	EA	4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	264.03	
33 14 13 53-0078	EA	4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	292.25	
33 14 13 53-0079	EA	6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	301.46	
33 14 13 53-0080	EA	6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	328.59	
33 14 13 53-0081	EA	8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	340.31	
33 14 13 53-0082	EA	8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	357.75	
33 14 13 53-0083	EA	10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	386.34	
33 14 13 53-0084	EA	10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	414.39	
33 14 13 53-0085	EA	12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	416.95	
33 14 13 53-0086	EA	12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	453.35	
33 14 13 53-0087	EA	14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	665.76	
33 14 13 53-0088	EA	14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	769.55	
33 14 13 53-0089	EA	16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	778.81	
33 14 13 53-0090	EA	16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	850.97	
33 14 13 53-0091	EA	18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,102.99	
33 14 13 53-0092	EA	18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,102.99	
33 14 13 53-0093	EA	20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,147.11	
33 14 13 53-0094	EA	20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,147.11	
33 14 13 53-0095	EA	24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,230.81	
33 14 13 53-0096	EA	24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,230.81	
33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)				
33 14 13 53-0098	EA	4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,226.77	
33 14 13 53-0099	EA	6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,478.79	
33 14 13 53-0100	EA	8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,773.31	
33 14 13 53-0101	EA	8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,881.27	
33 14 13 53-0102	EA	10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,925.30	
33 14 13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,077.93	
33 14 13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,141.17	
33 14 13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,065.30	
33 14 13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,217.32	
33 14 13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,593.37	
33 14 13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,685.88	
33 14 13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,296.20	
33 14 13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,468.48	
33 14 13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,543.78	
33 14 13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,573.90	
33 14 13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,815.93	
33 14 13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,798.85	
33 14 13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,817.53	
33 14 13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,010.51	
33 14 13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,053.01	
33 14 13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,100.18	
33 14 13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,030.97	
33 14 13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,444.33	
33 14 13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,523.79	
33 14 13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,964.49	
33 14 13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,077.98	
33 14 13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,433.38	
33 14 13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,851.39	
33 14 13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,509.67	
33 14 13 53-0127	EA	20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,675.33	
33 14 13 53-0128	EA	20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,737.62	
33 14 13 53-0129	EA	20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,063.60	
33 14 13 53-0130	EA	20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,378.30	
33 14 13 53-0131	EA	20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,610.28	
33 14 13 53-0132	EA	24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,722.45	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0133	EA	24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	10,867.95		
33 14 13 53-0134	EA	24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	10,907.97		
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	15,257.83		
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	15,451.65		
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	15,488.99		
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	15,917.52		
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	16,116.99		
33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)					
33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,013.02		
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,065.21		
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,170.56		
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,195.74		
33 14 13 53-0145	EA	8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,246.16		
33 14 13 53-0146	EA	8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,446.54		
33 14 13 53-0147	EA	10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,300.17		
33 14 13 53-0148	EA	10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,349.14		
33 14 13 53-0149	EA	10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,524.77		
33 14 13 53-0150	EA	10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,159.78		
33 14 13 53-0151	EA	12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,454.80		
33 14 13 53-0152	EA	12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,528.60		
33 14 13 53-0153	EA	12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,701.37		
33 14 13 53-0154	EA	12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,269.78		
33 14 13 53-0155	EA	12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,487.46		
33 14 13 53-0156	EA	14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,940.56		
33 14 13 53-0157	EA	14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,000.90		
33 14 13 53-0158	EA	14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,376.41		
33 14 13 53-0159	EA	14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,842.97		
33 14 13 53-0160	EA	14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,144.89		
33 14 13 53-0161	EA	16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,315.96		
33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,378.38		
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,625.54		
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,294.65		
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,449.60		
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,435.49		
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,551.98		
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,715.41		
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,503.50		
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,658.26		
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,958.50		
33 14 13 53-0172	EA	20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,020.78		
33 14 13 53-0173	EA	20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,392.76		
33 14 13 53-0174	EA	20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,024.66		
33 14 13 53-0175	EA	20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,290.38		
33 14 13 53-0176	EA	24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,182.15		
33 14 13 53-0177	EA	24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,323.61		
33 14 13 53-0178	EA	24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,516.10		
33 14 13 53-0179	EA	24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,414.74		
33 14 13 53-0180	EA	24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,576.27		
33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve (33 14 13 53)					
33 14 13 53-0182	EA	4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,185.83		
33 14 13 53-0183	EA	6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,283.47		
33 14 13 53-0184	EA	6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,360.75		
33 14 13 53-0185	EA	8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,378.31		
33 14 13 53-0186	EA	8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,467.96		
33 14 13 53-0187	EA	8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,744.07		
33 14 13 53-0188	EA	10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,582.82		
33 14 13 53-0189	EA	10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,682.67		
33 14 13 53-0190	EA	10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,929.72		
33 14 13 53-0191	EA	10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,648.11		
33 14 13 53-0192	EA	12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,801.79		
33 14 13 53-0193	EA	12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,939.44		
33 14 13 53-0194	EA	12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,267.16		
33 14 13 53-0195	EA	12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,695.38		
33 14 13 53-0196	EA	12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,021.79		
33 14 13 53-0197	EA	14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,054.89		
33 14 13 53-0198	EA	14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,224.69		
33 14 13 53-0199	EA	14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,594.23		
33 14 13 53-0200	EA	14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,022.88		
33 14 13 53-0201	EA	14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,247.62		
33 14 13 53-0202	EA	16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,523.64		
33 14 13 53-0203	EA	16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,757.30		
33 14 13 53-0204	EA	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,934.35		
33 14 13 53-0205	EA	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,395.56		
33 14 13 53-0206	EA	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,707.09		
33 14 13 53-0207	EA	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,770.71		
33 14 13 53-0208	EA	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,122.01		
33 14 13 53-0209	EA	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,306.97		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0210 EA 18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,711.75	
33 14 13 53-0211 EA 18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,248.64	
33 14 13 53-0212 EA 20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,978.30	
33 14 13 53-0213 EA 20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,328.68	
33 14 13 53-0214 EA 20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,478.17	
33 14 13 53-0215 EA 20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,235.02	
33 14 13 53-0216 EA 20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,654.44	
33 14 13 53-0217 EA 24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,547.73	
33 14 13 53-0218 EA 24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,593.99	
33 14 13 53-0219 EA 24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,774.09	
33 14 13 53-0220 EA 24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,678.34	
33 14 13 53-0221 EA 24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,158.99	
33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)		
33 14 13 53-0223 EA 3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	298.94	49.59
33 14 13 53-0224 EA 4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	374.43	62.53
33 14 13 53-0225 EA 6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	490.98	86.25
33 14 13 53-0226 EA 8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	639.82	101.34
33 14 13 53-0227 EA 10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,019.91	114.28
33 14 13 53-0228 EA 12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,138.82	129.38
33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)		
33 14 13 53-0230 EA 3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	443.90	49.59
33 14 13 53-0231 EA 4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	523.58	62.53
33 14 13 53-0232 EA 6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	698.16	86.25
33 14 13 53-0233 EA 8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	855.44	101.34
33 14 13 53-0234 EA 10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,047.57	114.28
33 14 13 53-0235 EA 12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,222.00	129.38
33 14 13 53-0236 EA 14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,455.68	142.31
33 14 13 53-0237 EA 16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,728.51	155.25
33 14 13 53-0238 EA 18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,045.54	170.78
33 14 13 53-0239 EA 20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,421.97	187.85
33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)		
33 14 13 53-0241 EA 4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	384.12	62.53
33 14 13 53-0242 EA 6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	514.91	86.25
33 14 13 53-0243 EA 8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	568.21	101.34
33 14 13 53-0244 EA 10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	840.88	114.28
33 14 13 53-0245 EA 12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,076.41	129.38
33 14 13 53-0246 EA 14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,208.24	142.31
33 14 13 53-0247 EA 16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,424.29	155.25
33 14 13 53-0248 EA 18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,599.52	170.78
33 14 13 53-0249 EA 20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,928.11	187.85
33 14 13 53-0250 EA 24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,329.23	206.65
33 14 13 53-0251 EA 30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	4,919.04	227.26
33 14 13 53-0252 EA 36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	6,657.55	250.03
33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)		
33 14 13 53-0254 EA 2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	131.13	34.50
33 14 13 53-0255 EA 2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	162.27	40.97
33 14 13 53-0256 EA 3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	201.27	49.59
33 14 13 53-0257 EA 4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	252.67	62.53
33 14 13 53-0258 EA 6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	336.16	86.25
33 14 13 53-0259 EA 8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	409.57	101.34
33 14 13 53-0260 EA 10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	515.80	114.28
33 14 13 53-0261 EA 12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	604.62	129.38
33 14 13 53-0262 EA 14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	863.24	142.31
33 14 13 53-0263 EA 16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,084.29	155.25
33 14 15 Water Service Connections (33 14)		
33 14 15 23 Water Service Hydrants (33 14 15)		
33 14 15 23-0001 Yard Hydrants (33 14 15 23)		
Note: With 3/4" hose thread outlet.		
33 14 15 23-0002 EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	198.64	27.77
33 14 15 23-0003 EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	210.29	27.77
33 14 15 23-0004 EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	221.94	27.77
33 14 15 23-0005 EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	237.11	35.18
33 14 15 23-0006 EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	247.47	35.18
33 14 15 23-0007 EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	257.82	35.18
33 14 15 23-0008 Sanitary Yard Hydrants (33 14 15 23)		
Note: With 3/4" hose thread outlet.		
33 14 15 23-0009 EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	766.40	57.85

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 15 23-0010	EA	4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	802.79	57.85
33 14 15 23-0011	EA	6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	839.19	57.85
33 14 15 23-0012		Flushing Hydrants (33 14 15 23)		
33 14 15 23-0013	EA	2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	509.48	35.70
33 14 19		Valves and Hydrants for Water Utility Service (33 14)		
Note: Flanged valves excludes bolt and gasket set.				
33 14 19 00-0001		Accessories For Valves (33 14 19)		
33 14 19 00-0002	EA	1' Valve Extension Stem	77.33	
For Each Additional LF, Add			5.35	
33 14 19 00-0003	EA	Up to 80" Long Indicator Post Telescoping Barrel Assembly	955.44	85.21
Note: Excludes valve.				
33 14 19 00-0004	EA	>80" To 114" Long Indicator Post Telescoping Barrel Assembly	1,082.11	93.72
Note: Excludes valve.				
33 14 19 00-0005	EA	Adjust Water Valve Box To Grade	85.21	
33 14 19 00-0006		Roadway Or Curb Valve Boxes (33 14 19)		
33 14 19 00-0007		Round Head, Cast Iron Service, Roadway Or Valve Boxes (33 14 19 00-0006)		
33 14 19 00-0008	EA	36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	141.51	11.25
Note: Includes cover, top section and bottom section.				
33 14 19 00-0009	EA	36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	162.94	11.25
Note: Includes cover, top section and bottom section.				
33 14 19 00-0010	EA	42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	163.93	11.25
Note: Includes cover, top section and bottom section.				
33 14 19 00-0011	EA	9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	44.32	5.63
33 14 19 00-0012	EA	16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	50.00	5.63
33 14 19 00-0013	EA	24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	58.54	5.63
33 14 19 00-0014	EA	36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box	211.05	14.06
Note: Includes cover, top section and bottom section.				
33 14 19 00-0015	EA	45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	361.81	19.68
Note: Includes cover, top section, bottom section and #6 round base.				
33 14 19 00-0016	EA	45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	401.79	19.68
Note: Includes cover, top section, bottom section and #6 round base.				
33 14 19 00-0017	EA	24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	218.98	14.06
Note: Includes cover, top section and bottom section.				
33 14 19 00-0018	EA	36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	228.53	14.06
Note: Includes cover, top section and bottom section.				
33 14 19 00-0019	EA	24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	221.23	14.06
Note: Includes cover, top section and bottom section.				
33 14 19 00-0020	EA	12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	80.60	5.63
33 14 19 00-0021	EA	18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes	140.30	23.14
33 14 19 00-0022	EA	22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes	144.64	24.06
33 14 19 00-0023	EA	30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes	160.83	25.00
33 14 19 00-0024	EA	36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Boxes	215.79	26.39
33 14 19 00-0025	EA	48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes	258.63	27.77
33 14 19 00-0026	EA	18" Cast Iron Service Box Extension Section	59.58	
33 14 19 00-0027		Plastic Roadway Grade Water Meter Box And Cover (33 14 19 00-0006)		
33 14 19 00-0028	EA	12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	246.43	32.40
33 14 19 00-0029	EA	9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	185.40	23.14
33 14 19 00-0030	EA	Cast Iron Lid For Plastic Meter Box	55.40	
33 14 19 00-0031		Traffic Valve Box And Lid (33 14 19 00-0006)		
33 14 19 00-0032	EA	10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5)	141.04	
33 14 19 00-0033	EA	14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12)	420.54	
33 14 19 00-0034		Roadway Utility Box (33 14 19)		
33 14 19 00-0035		Utility Box (33 14 19 00-0034)		
Note: Christy Concrete Products.				
33 14 19 00-0036		B3 Utility Box, 9-3/8" x 15-1/2" (33 14 19 00-0035)		
33 14 19 00-0037	EA	9-3/8" x 15-1/2" Precast Concrete Utility Box	67.90	42.27
33 14 19 00-0038	EA	Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box	51.87	4.70
33 14 19 00-0039	EA	Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	24.33	4.70
33 14 19 00-0040	EA	Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box	107.86	4.70
33 14 19 00-0041	EA	12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	37.23	9.39
33 14 19 00-0042	EA	3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	49.40	9.39
33 14 19 00-0043		B9 Utility Box, 10-1/4" x 17-1/4" (33 14 19 00-0035)		
33 14 19 00-0044	EA	10-1/4" x 17-1/4" Precast Concrete Utility Box	84.91	56.36
33 14 19 00-0045	EA	Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box	60.90	5.64



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 19 00-0046	EA	Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	27.43	5.64
33 14 19 00-0047	EA	Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box.....	112.92	4.70
33 14 19 00-0048	EA	13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	40.58	9.39
33 14 19 00-0049	EA	5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	55.86	14.09
33 14 19 00-0050	EA	12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box.....	75.35	25.83
33 14 19 00-0051		B12 Utility Box, 12" x 20" (33 14 19 00-0035)		
33 14 19 00-0052	EA	12" x 20" Precast Concrete Utility Box	92.90	61.06
33 14 19 00-0053	EA	Cast Iron Lid For 12" x 20" Utility Box	106.55	7.04
33 14 19 00-0054	EA	Reinforced Concrete Lid For 12" x 20" Utility Box	38.63	9.39
33 14 19 00-0055	EA	Steel Checkered Plate Cover For 12" x 20" Utility Box	154.96	9.39
33 14 19 00-0056	EA	12" High Reinforced Concrete Extension For 12" x 20" Utility Box	97.43	32.88
33 14 19 00-0057		B16 Utility Box, 12" x 22-1/4" (33 14 19 00-0035)		
33 14 19 00-0058	EA	12" x 22-1/4" Precast Concrete Utility Box	107.49	71.39
33 14 19 00-0059	EA	Cast Iron Lid For 12" x 22-1/4" Utility Box	121.83	9.39
33 14 19 00-0060	EA	Reinforced Concrete Lid For 12" x 22-1/4" Utility Box	45.53	9.39
33 14 19 00-0061	EA	Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box	155.78	9.39
33 14 19 00-0062	EA	16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box	66.71	15.97
33 14 19 00-0063	EA	12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box	98.57	32.88
33 14 19 00-0064		B30 Utility Box, 13-1/4" x 24" (33 14 19 00-0035)		
33 14 19 00-0065	EA	13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX)	128.75	84.54
33 14 19 00-0066	EA	Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D)	63.70	15.03
33 14 19 00-0067	EA	Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G)	193.18	12.21
33 14 19 00-0068	EA	16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL)	66.71	15.97
33 14 19 00-0069	EA	5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA)	104.04	26.30
33 14 19 00-0070	EA	6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6)	78.56	17.84
33 14 19 00-0071	EA	12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12)	127.40	42.27
33 14 19 00-0072		B36 Utility Box, 17-1/4" x 30" (33 14 19 00-0035)		
33 14 19 00-0073	EA	17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX)	166.57	107.09
33 14 19 00-0074	EA	Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D)	105.15	25.83
33 14 19 00-0075	EA	Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D)	244.71	17.84
33 14 19 00-0076	EA	20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL)	105.27	33.82
33 14 19 00-0077	EA	6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA)	158.51	37.58
33 14 19 00-0078	EA	12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12)	168.16	54.48
33 14 19 00-0079		B40 Utility Box, 24-1/2" x 36" (33 14 19 00-0035)		
33 14 19 00-0080	EA	24-1/2" x 36" Precast Concrete Utility Box	316.54	165.33
33 14 19 00-0081	EA	Reinforced Concrete Lid For 24-1/2" x 36" Utility Box	279.03	62.00
33 14 19 00-0082	EA	Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box	349.47	27.24
33 14 19 00-0083	EA	30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box	235.69	58.24
33 14 19 00-0084	EA	10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box	249.32	61.06
33 14 19 00-0085		B48 Utility Box, 30-1/4" x 48-1/4" (33 14 19 00-0035)		
33 14 19 00-0086	EA	30-1/4" x 48-1/4" Precast Concrete Utility Box	419.76	187.87
33 14 19 00-0087	EA	1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	401.54	102.39
33 14 19 00-0088	EA	2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	479.60	102.39
33 14 19 00-0089	EA	2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box	557.11	46.97
33 14 19 00-0090	EA	36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box	384.64	126.81
33 14 19 00-0091	EA	10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box	318.16	85.48
33 14 19 00-0092		Water Utility Distribution Valves (33 14 19)		
33 14 19 00-0093		Angle Valves (33 14 19 00-0092)		
		Note: For connecting meters to water service.		
33 14 19 00-0094		Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0093)		
		Note: Nibco T-335Y		
33 14 19 00-0095	EA	1/2" Threaded, Class 150, Bronze Angle Valve	56.81	14.81
33 14 19 00-0096	EA	3/4" Threaded, Class 150, Bronze Angle Valve	76.62	19.90
33 14 19 00-0097	EA	1" Threaded, Class 150, Bronze Angle Valve	100.49	24.53
33 14 19 00-0098	EA	1-1/4" Threaded, Class 150, Bronze Angle Valve	128.89	30.82
33 14 19 00-0099	EA	1-1/2" Threaded, Class 150, Bronze Angle Valve	158.05	35.64
33 14 19 00-0100	EA	2" Threaded, Class 150, Bronze Angle Valve	224.91	41.66
33 14 19 00-0101	EA	2-1/2" Threaded, Class 150, Bronze Angle Valve	349.78	56.83
33 14 19 00-0102	EA	3" Threaded, Class 150, Bronze Angle Valve	510.59	65.61
33 14 19 00-0103		Butterfly Valves (33 14 19 00-0092)		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0104	Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valves (33 14 19 00-0103)		
33 14 19 00-0105	EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-HD8).....	1,211.31	157.36
33 14 19 00-0106	EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-CW8).....	1,382.51	157.36
33 14 19 00-0107	EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-HD8).....	1,335.78	243.44
33 14 19 00-0108	EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-CW8).....	1,506.98	243.44
33 14 19 00-0109	EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-HD8).....	1,576.33	289.32
33 14 19 00-0110	EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-CW8).....	1,748.60	289.32
33 14 19 00-0111	EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-HD8).....	1,823.49	369.69
33 14 19 00-0112	EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-CW8).....	1,995.76	369.69
33 14 19 00-0113	EA 10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-HD16).....	2,391.20	450.06
33 14 19 00-0114	EA 10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-CW20).....	2,826.69	450.06
33 14 19 00-0115	EA 12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-HD24).....	2,814.41	545.52
33 14 19 00-0116	EA 12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-3-CW20).....	3,170.72	545.52
33 14 19 00-0117	EA 14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-7-HD12).....	3,663.84	707.18
33 14 19 00-0118	EA 14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-7-CW20).....	4,249.13	707.18
33 14 19 00-0119	EA 16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-7-HD16).....	4,358.92	777.90
33 14 19 00-0120	EA 16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-7-CW20).....	4,731.28	777.90
33 14 19 00-0121	EA 18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-7-HD16).....	5,423.72	862.77
33 14 19 00-0122	EA 18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-7-CW20).....	48,596.08	862.77
33 14 19 00-0123	EA 20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-7-HD30).....	6,399.62	972.37
33 14 19 00-0124	EA 20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,Ci,NBRN-NBR,150B,Ci-S1*MS-7-CW20).....	6,635.02	972.37
33 14 19 00-0125	EA 24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MS-7-HD30).....	9,424.69	1,193.37
33 14 19 00-0126	EA 24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MS-7-CW20).....	9,660.09	1,193.37
33 14 19 00-0127	EA 30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S1-S304G0*MG-WR1-HD16).....	21,181.48	2,033.66
33 14 19 00-0128	EA 36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S1-S304G0*MG-WR1-HD16).....	24,845.08	2,711.56
33 14 19 00-0129	EA 42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S1-S304G0*MG-WR1-HD32).....	31,982.89	4,067.33
33 14 19 00-0130	EA 48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S1-S304G0*MG-WR3-HD24).....	38,917.44	5,084.16

33 14 19 00-0131 Check Valves (33 14 19 00-0092)



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0132 Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0132) Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.		
33 14 19 00-0133 EA 2-1/2" Flanged, Swing Type Gravity Operated Check Valve	586.93	123.54
33 14 19 00-0134 EA 3" Flanged, Swing Type Gravity Operated Check Valve.....	613.30	144.85
33 14 19 00-0135 EA 4" Flanged, Swing Type Gravity Operated Check Valve.....	896.64	183.19
33 14 19 00-0136 EA 4" x 6" Flanged, Swing Type Gravity Operated Check Valve.....	1,178.93	275.64
33 14 19 00-0137 EA 4" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	1,236.17	307.84
33 14 19 00-0138 EA 6" Flanged, Swing Type Gravity Operated Check Valve.....	1,186.32	306.75
33 14 19 00-0139 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	1,521.32	348.67
33 14 19 00-0140 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve.....	1,601.56	391.95
33 14 19 00-0141 EA 8" Flanged, Swing Type Gravity Operated Check Valve.....	1,660.06	391.95
33 14 19 00-0142 EA 10" Flanged, Swing Type Gravity Operated Check Valve.....	2,701.45	477.16
33 14 19 00-0143 EA 12" Flanged, Swing Type Gravity Operated Check Valve.....	4,010.82	357.86
33 14 19 00-0144 EA 14" Flanged, Swing Type Gravity Operated Check Valve.....	5,544.54	707.18
33 14 19 00-0145 EA 16" Flanged, Swing Type Gravity Operated Check Valve.....	7,288.94	777.90
33 14 19 00-0146 EA 18" Flanged, Swing Type Gravity Operated Check Valve.....	10,433.99	862.77
33 14 19 00-0147 EA 20" Flanged, Swing Type Gravity Operated Check Valve.....	12,130.96	972.37
33 14 19 00-0148 Combination Air Release Valves (33 14 19 00-0092)		
33 14 19 00-0149 EA 1" Combination Air Release Valve.....	433.12	17.89
33 14 19 00-0150 EA 2" Combination Air Release Valve.....	699.50	30.67
33 14 19 00-0151 Corporation Stop And Curb Valve (33 14 19 00-0092) Note: AWWA C800		
33 14 19 00-0152 Ball Corporation Valves (33 14 19 00-0151) Note: Mueller B-25000.		
33 14 19 00-0153 EA 3/4" Ball Corporation Valve (Mueller B-25000)	70.59	17.89
33 14 19 00-0154 EA 1" Ball Corporation Valve (Mueller B-25000)	88.74	22.15
33 14 19 00-0155 EA 1-1/2" Ball Corporation Valve (Mueller B-25000)	159.91	32.38
33 14 19 00-0156 EA 2" Ball Corporation Valve (Mueller B-25000)	242.24	38.34
33 14 19 00-0157 Gate Valve, AWWA C500 And C509 (33 14 19 00-0092)		
33 14 19 00-0158 Gate Valve, Flanged (33 14 19 00-0157) Note: Mueller A-2380-6.		
33 14 19 00-0159 EA 2" Gate Valve, Flanged.....	385.75	113.58
33 14 19 00-0160 EA 2-1/2" Gate Valve, Flanged.....	445.96	123.54
33 14 19 00-0161 EA 3" Gate Valve, Flanged.....	526.67	144.85
33 14 19 00-0162 EA 4" Gate Valve, Flanged.....	748.92	181.49
33 14 19 00-0163 EA 6" Gate Valve, Flanged.....	900.74	306.75
33 14 19 00-0164 EA 8" Gate Valve, Flanged.....	1,293.14	391.95
33 14 19 00-0165 EA 10" Gate Valve, Flanged.....	1,877.66	477.16
33 14 19 00-0166 EA 12" Gate Valve, Flanged.....	2,262.62	357.86
33 14 19 00-0167 EA 14" Gate Valve, Flanged.....	4,578.34	707.18
33 14 19 00-0168 EA 16" Gate Valve, Flanged.....	5,909.12	777.90
33 14 19 00-0169 EA 18" Gate Valve, Flanged.....	9,159.06	862.77
33 14 19 00-0170 EA 20" Gate Valve, Flanged.....	10,920.44	972.37
33 14 19 00-0171 Resilient Wedge Gate Valve, Flanged (33 14 19 00-0157) Note: Mueller A-2360-6.		
33 14 19 00-0172 EA 2" Resilient Wedge Gate Valve, Flanged.....	371.96	113.58
33 14 19 00-0173 EA 2-1/2" Resilient Wedge Gate Valve, Flanged.....	429.48	123.54
33 14 19 00-0174 EA 3" Resilient Wedge Gate Valve, Flanged.....	507.12	144.85
33 14 19 00-0175 EA 4" Resilient Wedge Gate Valve, Flanged.....	727.07	181.49
33 14 19 00-0176 EA 6" Resilient Wedge Gate Valve, Flanged.....	871.53	306.75
33 14 19 00-0177 EA 8" Resilient Wedge Gate Valve, Flanged.....	1,247.51	391.95
33 14 19 00-0178 EA 10" Resilient Wedge Gate Valve, Flanged.....	1,805.14	477.16
33 14 19 00-0179 EA 12" Resilient Wedge Gate Valve, Flanged.....	2,175.06	357.86
33 14 19 00-0180 Gate Valve, Mechanical Joint (33 14 19 00-0157) Note: Mueller A-2380-20.		
33 14 19 00-0181 EA 2" Gate Valve, Mechanical Joint.....	459.57	90.75
33 14 19 00-0182 EA 2-1/2" Gate Valve, Mechanical Joint.....	512.93	113.75
33 14 19 00-0183 EA 3" Gate Valve, Mechanical Joint.....	639.31	137.60
33 14 19 00-0184 EA 4" Gate Valve, Mechanical Joint.....	779.43	181.49
33 14 19 00-0185 EA 6" Gate Valve, Mechanical Joint.....	965.12	213.01
33 14 19 00-0186 EA 8" Gate Valve, Mechanical Joint.....	1,349.90	255.62
33 14 19 00-0187 EA 10" Gate Valve, Mechanical Joint.....	1,899.78	298.22
33 14 19 00-0188 EA 12" Gate Valve, Mechanical Joint.....	2,363.10	357.86
33 14 19 00-0189 EA 14" Gate Valve, Mechanical Joint.....	4,834.72	433.15
33 14 19 00-0190 EA 16" Gate Valve, Mechanical Joint.....	6,189.89	486.19
33 14 19 00-0191 EA 18" Gate Valve, Mechanical Joint.....	9,662.24	539.22
33 14 19 00-0192 EA 20" Gate Valve, Mechanical Joint.....	11,463.06	607.73

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0193		Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0157) Note: Mueller A-2360-20.		
33 14 19 00-0194	EA	2" Resilient Wedge Gate Valve, Mechanical Joint	443.82	90.75
33 14 19 00-0195	EA	3" Resilient Wedge Gate Valve, Mechanical Joint	618.70	137.60
33 14 19 00-0196	EA	4" Resilient Wedge Gate Valve, Mechanical Joint	755.86	181.49
33 14 19 00-0197	EA	6" Resilient Wedge Gate Valve, Mechanical Joint	934.61	213.01
33 14 19 00-0198	EA	8" Resilient Wedge Gate Valve, Mechanical Joint	1,302.44	255.62
33 14 19 00-0199	EA	10" Resilient Wedge Gate Valve, Mechanical Joint	1,826.01	298.22
33 14 19 00-0200	EA	12" Resilient Wedge Gate Valve, Mechanical Joint	2,269.84	357.86
33 14 19 00-0201		Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0157) Note: Mueller A-2361.		
33 14 19 00-0202	EA	14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	4,703.46	707.18
33 14 19 00-0203	EA	16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	5,116.25	777.90
33 14 19 00-0204	EA	18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	7,860.15	862.77
33 14 19 00-0205	EA	20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	9,362.31	972.37
33 14 19 00-0206	EA	24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	13,234.91	1,193.37
33 14 19 00-0207		Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0157) Note: NIBCO T-113.		
33 14 19 00-0208	EA	1/4" Gate Valve, Bronze, Threaded	37.83	14.91
33 14 19 00-0209	EA	3/8" Gate Valve, Bronze, Threaded	39.24	14.91
33 14 19 00-0210	EA	1/2" Gate Valve, Bronze, Threaded	39.70	14.91
33 14 19 00-0211	EA	3/4" Gate Valve, Bronze, Threaded	51.97	20.13
33 14 19 00-0212	EA	1" Gate Valve, Bronze, Threaded	63.65	24.34
33 14 19 00-0213	EA	1-1/4" Gate Valve, Bronze, Threaded	84.40	30.82
33 14 19 00-0214	EA	1-1/2" Gate Valve, Bronze, Threaded	97.73	35.64
33 14 19 00-0215	EA	2" Gate Valve, Bronze, Threaded	117.52	41.66
33 14 19 00-0216	EA	2-1/2" Gate Valve, Bronze, Threaded	203.46	56.83
33 14 19 00-0217	EA	3" Gate Valve, Bronze, Threaded	241.47	65.18
33 14 19 00-0218		Globe Valve, AWWA (33 14 19 00-0092)		
33 14 19 00-0219		Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0218) Note: NIBCO T-235.		
33 14 19 00-0220	EA	1/8" Globe Valve, Threaded	49.57	14.91
33 14 19 00-0221	EA	1/4" Globe Valve, Threaded	46.72	14.91
33 14 19 00-0222	EA	3/8" Globe Valve, Threaded	48.13	14.91
33 14 19 00-0223	EA	1/2" Globe Valve, Threaded	49.57	14.91
33 14 19 00-0224	EA	3/4" Globe Valve, Threaded	67.22	20.13
33 14 19 00-0225	EA	1" Globe Valve, Threaded	90.62	24.34
33 14 19 00-0226	EA	1-1/4" Globe Valve, Threaded	127.97	30.82
33 14 19 00-0227	EA	1-1/2" Globe Valve, Threaded	151.62	35.64
33 14 19 00-0228	EA	2" Globe Valve, Threaded	203.96	41.66
33 14 19 00-0229	EA	2-1/2" Globe Valve, Threaded	355.74	56.83
33 14 19 00-0230	EA	3" Globe Valve, Threaded	475.47	65.53
33 14 19 00-0231		Tapping Valve, AWWA C500 And C509 (33 14 19 00-0092)		
33 14 19 00-0232		Tapping Valve, AWWA C500 And C509 (33 14 19 00-0231) Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0233	EA	2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	517.15	113.58
33 14 19 00-0234	EA	3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	665.52	144.85
33 14 19 00-0235	EA	4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	883.05	181.49
33 14 19 00-0236	EA	6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,105.70	306.75
33 14 19 00-0237	EA	8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,555.99	391.95
33 14 19 00-0238	EA	10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,197.09	477.16
33 14 19 00-0239	EA	12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	3,162.08	357.86
33 14 19 00-0240	EA	14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	5,503.53	707.18
33 14 19 00-0241	EA	16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	6,888.82	777.90
33 14 19 00-0242	EA	18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	10,896.23	862.77
33 14 19 00-0243		Fire Hydrants (33 14 19) Note: Breakaway type.		
33 14 19 00-0244		Three Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0243) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0245	EA	1-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	2,679.65	225.03
33 14 19 00-0246	EA	2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	2,729.41	225.03
33 14 19 00-0247	EA	2-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	2,779.30	225.03
33 14 19 00-0248	EA	3" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	2,845.03	241.11
33 14 19 00-0249	EA	3-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	2,894.84	241.11
33 14 19 00-0250	EA	4" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	2,964.77	261.19
33 14 19 00-0251	EA	4-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,014.50	261.19
33 14 19 00-0252	EA	5" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,084.48	281.29
33 14 19 00-0253	EA	5-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,134.28	281.29
33 14 19 00-0254	EA	6" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,204.10	301.38



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0255 EA 6-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,273.98	321.47
33 14 19 00-0256 EA 7' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,363.87	361.65
33 14 19 00-0257 EA 1-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,725.06	225.03
33 14 19 00-0258 EA 2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,789.64	225.03
33 14 19 00-0259 EA 2-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,854.05	225.03
33 14 19 00-0260 EA 3' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,934.55	241.11
33 14 19 00-0261 EA 3-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,998.97	241.11
33 14 19 00-0262 EA 4' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,083.70	261.19
33 14 19 00-0263 EA 4-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,148.04	261.19
33 14 19 00-0264 EA 5' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,232.62	281.29
33 14 19 00-0265 EA 5-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,297.02	281.29
33 14 19 00-0266 EA 6' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,381.41	301.38
33 14 19 00-0267 EA 6-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,466.08	321.47
33 14 19 00-0268 EA 7' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,570.56	361.65
33 14 19 00-0269 Two Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0243)		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0270 EA 1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,406.52	225.03
33 14 19 00-0271 EA 2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,456.10	225.03
33 14 19 00-0272 EA 2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,505.97	225.03
33 14 19 00-0273 EA 3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,571.91	241.11
33 14 19 00-0274 EA 3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,621.56	241.11
33 14 19 00-0275 EA 4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,691.38	261.19
33 14 19 00-0276 EA 4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,741.19	261.19
33 14 19 00-0277 EA 5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,811.21	281.29
33 14 19 00-0278 EA 5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,860.91	281.29
33 14 19 00-0279 EA 6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,931.00	301.38
33 14 19 00-0280 EA 6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,000.56	321.47
33 14 19 00-0281 EA 7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,090.56	361.65
33 14 19 00-0282 EA 1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,476.66	225.03
33 14 19 00-0283 EA 2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,541.09	225.03
33 14 19 00-0284 EA 2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,605.43	225.03
33 14 19 00-0285 EA 3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,686.09	241.11
33 14 19 00-0286 EA 3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,750.34	241.11
33 14 19 00-0287 EA 4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,834.97	261.19
33 14 19 00-0288 EA 4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,899.25	261.19
33 14 19 00-0289 EA 5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,984.04	281.29
33 14 19 00-0290 EA 5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,048.30	281.29
33 14 19 00-0291 EA 6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,132.92	301.38
33 14 19 00-0292 EA 6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,217.26	321.47
33 14 19 00-0293 EA 7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,322.10	361.65
33 14 19 00-0294 Three Way, Modern Model Fire Hydrant (33 14 19 00-0243)		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0295 EA 1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,795.78	225.03
33 14 19 00-0296 EA 2' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,860.12	225.03
33 14 19 00-0297 EA 2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,924.65	225.03
33 14 19 00-0298 EA 3' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,005.17	241.11
33 14 19 00-0299 EA 3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,069.56	241.11
33 14 19 00-0300 EA 4' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,154.05	261.19
33 14 19 00-0301 EA 4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,218.52	261.19
33 14 19 00-0302 EA 5' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,303.05	281.29
33 14 19 00-0303 EA 5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,367.45	281.29
33 14 19 00-0304 EA 6' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,451.96	281.29
33 14 19 00-0305 EA 6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,536.65	321.47
33 14 19 00-0306 EA 7' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,640.47	321.47
33 14 19 00-0307 Two Way, Modern Model Fire Hydrant (33 14 19 00-0243)		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0308 EA 1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	1,989.08	225.03
33 14 19 00-0309 EA 2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,038.04	225.03
33 14 19 00-0310 EA 2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,087.54	225.03
33 14 19 00-0311 EA 3' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,152.01	241.11
33 14 19 00-0312 EA 3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,200.95	241.11
33 14 19 00-0313 EA 4' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,269.97	261.19
33 14 19 00-0314 EA 4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,318.90	261.19
33 14 19 00-0315 EA 5' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,388.01	281.29
33 14 19 00-0316 EA 5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,436.81	281.29
33 14 19 00-0317 EA 6' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,505.86	301.38
33 14 19 00-0318 EA 6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,574.96	321.47
33 14 19 00-0319 EA 7' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,663.47	361.65
33 14 19 00-0320 Safetop Model With Breakable Section (33 14 19 00-0243)		
Note: Prices listed are for mechanical joint. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0321 EA 4" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,092.14	321.47
33 14 19 00-0322 EA 6" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,177.99	321.47
33 14 19 00-0323 EA 8" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,310.37	321.47

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0324 Fire Hydrant Extension Kits (33 14 19 00-0243)				
33 14 19 00-0325	EA	6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	414.95	20.10
33 14 19 00-0326	EA	12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	493.05	25.11
33 14 19 00-0327	EA	18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	537.85	30.14
33 14 19 00-0328	EA	24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	611.42	37.17
33 14 19 00-0329	EA	30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	922.85	38.68
33 14 19 00-0330	EA	36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	985.63	40.18
33 14 19 00-0331	EA	42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,000.66	42.20
33 14 19 00-0332	EA	48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,056.93	45.21
33 14 19 00-0333	EA	54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,165.33	54.25
33 14 19 00-0334	EA	60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,229.94	65.30
33 14 19 00-0335	EA	6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	461.58	22.50
33 14 19 00-0336	EA	12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	546.63	27.33
33 14 19 00-0337	EA	18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	627.30	32.95
33 14 19 00-0338	EA	24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	701.36	40.99
33 14 19 00-0339	EA	30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	960.01	42.60
33 14 19 00-0340	EA	36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,023.59	44.20
33 14 19 00-0341	EA	42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,067.38	46.62
33 14 19 00-0342	EA	48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,248.38	49.83
33 14 19 00-0343	EA	54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,368.27	59.47
33 14 19 00-0344	EA	60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,437.93	71.53
33 14 19 00-0345 Remove And Reinstall Standard Fire Hydrant (33 14 19 00-0243)				
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.				
33 14 19 00-0346	EA	Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant	642.93	
33 14 19 00-0347	EA	>5' Burial Section, Removal And Reinstallation Of Fire Hydrant	937.62	
33 14 19 00-0348	EA	Reset Fire Hydrant Upper Barrel	786.15	
Note: Includes Safety Repair Kit				
33 14 23 Enclosures for Water Utility Piping and Valves (33 14)				
See CSI section 22 11 19 00-0446 for Enclosures.				
33 19 Water Utility Metering Equipment (33 19)				
33 19 11 Water Utility Metering (33 19)				
33 19 11 00-0001 Bronze Disk Type Water Service Meters (33 19 11)				
33 19 11 00-0002	EA	5/8" Diameter, 0 - 20 GPM, Screwed, Water Supply Meter, Disk Type, Bronze	157.02	48.14
33 19 11 00-0003	EA	3/4" Diameter, 0 - 30 GPM, Screwed, Water Supply Meter, Disk Type, Bronze	195.86	57.39
33 19 11 00-0004	EA	1" Diameter, 0 - 50 GPM, Screwed, Water Supply Meter, Disk Type, Bronze	257.91	65.72
33 19 11 00-0005	EA	1-1/2" Diameter, 0 - 100 GPM, Screwed, Water Supply Meter, Disk Type, Bronze	488.44	98.12
33 19 11 00-0006	EA	2" Diameter, 0 - 160 GPM, Screwed, Water Supply Meter, Disk Type, Bronze	659.66	127.75
33 19 11 00-0007 Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 11)				
33 19 11 00-0008	EA	5/8" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	332.93	48.14
For Owner Furnished Material, Deduct			-284.21	
33 19 11 00-0009	EA	3/4" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	380.25	57.39
For Owner Furnished Material, Deduct			-322.40	
33 19 11 00-0010	EA	1" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	560.81	65.72
For Owner Furnished Material, Deduct			-494.69	
33 19 11 00-0011	EA	1-1/2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	945.48	98.12
For Owner Furnished Material, Deduct			-847.01	
33 19 11 00-0012	EA	2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	1,172.32	127.75
For Owner Furnished Material, Deduct			-1,043.76	
33 19 11 00-0013	EA	Electronic Transmitter	265.34	23.14
Note: For use with transmitting meter valve.				
For Owner Furnished Material, Deduct			-242.20	
33 19 11 00-0014 Flanged Compound Type Water Service Meter (33 19 11)				
33 19 11 00-0015	EA	2" Diameter, 0 - 160 GPM Water Service Meter Compound Type, Flanged And Bronze	1,607.46	113.58
33 19 11 00-0016	EA	3" Diameter, 0 - 320 GPM Water Service Meter Compound Type, Flanged And Bronze	1,881.10	144.85
33 19 11 00-0017	EA	4" Diameter, 0 - 500 GPM Water Service Meter Compound Type, Flanged And Bronze	3,374.47	274.36
33 19 11 00-0018	EA	6" Diameter, 0 - 1,000 GPM Water Service Meter Compound Type, Flanged And Bronze	4,345.52	306.75
33 19 11 00-0019	EA	8" Diameter, 0 - 1,600 GPM Water Service Meter Compound Type, Flanged And Bronze	8,896.35	391.95
33 19 11 00-0020	EA	10" Diameter, 0 - 2,500 GPM Water Service Meter Compound Type, Flanged And Bronze	15,209.60	477.16
33 19 11 00-0021 Flanged Turbine Water Service Meter (33 19 11)				
33 19 11 00-0022 Vertical Turbine Meters (33 19 11 00-0021)				
33 19 11 00-0023	EA	1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged	426.43	89.47
33 19 11 00-0024	EA	2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged	590.05	113.58
33 19 11 00-0025	EA	3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged	973.99	144.85
33 19 11 00-0026	EA	4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged	1,723.23	337.58
33 19 11 00-0027	EA	6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged	2,728.42	306.75



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Metering Equipment	33 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 19 11 00-0028	Horizontal Turbine Meters (33 19 11 00-0021)				
33 19 11 00-0029	EA	1-1/2"	Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged	635.98	89.47
33 19 11 00-0030	EA	2"	Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged	889.21	113.58
33 19 11 00-0031	EA	3"	Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged	1,093.92	144.85
33 19 11 00-0032	EA	4"	Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged	1,881.77	337.58
33 19 11 00-0033	EA	6"	Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged	3,306.05	306.75
33 19 11 00-0034	EA	8"	Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged	4,417.28	391.95
33 19 11 00-0035	EA	10"	Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged	6,157.71	477.16
33 19 11 00-0036	EA	12"	Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged	8,084.42	962.83

33 30 Sanitary Sewerage Utilities (33)

33 31 Sanitary Sewerage Piping (33 30)

33 31 11 Public Sanitary Sewerage Gravity Piping (33 31)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31
23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 31 11 00-0001	Cast Iron Service Saddles With U Bolt (33 31 11)				
33 31 11 00-0002	EA	2"	Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	91.75	
33 31 11 00-0003	EA	3"	Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	92.21	
33 31 11 00-0004	EA	3"	Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	101.55	
33 31 11 00-0005	EA	4"	Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	98.15	
33 31 11 00-0006	EA	4"	Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	110.64	
33 31 11 00-0007	EA	4"	Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	124.28	
33 31 11 00-0008	EA	4"	Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	147.15	
33 31 11 00-0009	EA	6"	Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	124.30	
33 31 11 00-0010	EA	6"	Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	133.15	
33 31 11 00-0011	EA	6"	Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	156.80	
33 31 11 00-0012	EA	2"	Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	129.43	
33 31 11 00-0013	EA	4"	Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	100.75	
33 31 11 00-0014	EA	4"	Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	110.09	
33 31 11 00-0015	EA	4"	Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt	130.35	
33 31 11 00-0016	EA	4"	Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	154.61	
33 31 11 00-0017	EA	6"	Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	166.09	

33 31 11 00-0018 Plastic Sewer And Drain Piping (33 31 11)

33 31 11 00-0019 Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0018)

33 31 11 00-0020	LF	1-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	4.65	2.11
33 31 11 00-0021	LF	2"	Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	5.51	2.45
33 31 11 00-0022	LF	3"	Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	6.92	2.86
33 31 11 00-0023	LF	4"	Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	8.39	3.32
33 31 11 00-0024	LF	6"	Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	10.77	3.86
33 31 11 00-0025	LF	8"	Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.72	4.49
33 31 11 00-0026	LF	10"	Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	17.21	4.65
33 31 11 00-0027	LF	12"	Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	21.26	4.81

33 31 11 00-0028 Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0018)

Note: D-2729 PVC pipe.

33 31 11 00-0029	LF	3"	Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	6.72	2.86
33 31 11 00-0030	LF	4"	Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	7.91	3.32
33 31 11 00-0031	LF	6"	Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	10.20	3.86

33 31 11 00-0032 Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0018)

33 31 11 00-0033 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)

33 31 11 00-0034	EA	1-1/2"	1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	17.48	10.86
33 31 11 00-0035	EA	2"	1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	22.53	14.05
33 31 11 00-0036	EA	3"	1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	33.00	18.86
33 31 11 00-0037	EA	4"	1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	42.55	21.81
33 31 11 00-0038	EA	6"	1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	102.68	28.34
33 31 11 00-0039	EA	8"	1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	160.19	38.14
33 31 11 00-0040	EA	10"	1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	212.05	50.80

33 31 11 00-0041 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)

33 31 11 00-0042	EA	1-1/2"	1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	17.75	10.86
33 31 11 00-0043	EA	2"	1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	22.51	14.05
33 31 11 00-0044	EA	3"	1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	32.59	18.86
33 31 11 00-0045	EA	4"	1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	40.55	21.81
33 31 11 00-0046	EA	6"	1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	97.59	28.34
33 31 11 00-0047	EA	8"	1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	148.36	38.14
33 31 11 00-0048	EA	10"	1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	177.25	50.80
33 31 11 00-0049	EA	12"	1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	254.56	67.66

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0050 Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)				
33 31 11 00-0051	EA	1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	20.59	10.70
33 31 11 00-0052	EA	2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	24.44	14.05
33 31 11 00-0053	EA	3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	38.54	19.28
33 31 11 00-0054	EA	4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	54.12	23.52
33 31 11 00-0055	EA	6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	83.50	27.20
33 31 11 00-0056	EA	8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	126.74	31.03
33 31 11 00-0057	EA	10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	189.74	36.18
33 31 11 00-0058	EA	12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	271.95	42.18
33 31 11 00-0059 1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)				
33 31 11 00-0060	EA	1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	18.34	10.86
33 31 11 00-0061	EA	2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	23.10	14.05
33 31 11 00-0062	EA	3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	34.29	18.86
33 31 11 00-0063	EA	4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	43.71	21.81
33 31 11 00-0064	EA	6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	119.61	28.34
33 31 11 00-0065	EA	8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	184.83	38.14
33 31 11 00-0066	EA	10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	217.66	50.80
33 31 11 00-0067	EA	12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	241.09	67.66
33 31 11 00-0068 Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)				
33 31 11 00-0069	EA	2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	20.98	12.40
33 31 11 00-0070	EA	3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	29.75	14.80
33 31 11 00-0071	EA	3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	30.82	16.32
33 31 11 00-0072	EA	4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	39.28	17.83
33 31 11 00-0073	EA	4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	43.45	20.24
33 31 11 00-0074	EA	6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	90.62	25.04
33 31 11 00-0075	EA	8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	169.53	33.21
33 31 11 00-0076	EA	10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	80.65	36.26
33 31 11 00-0077	EA	10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	100.26	39.55
33 31 11 00-0078	EA	10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	101.77	44.43
33 31 11 00-0079	EA	12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	191.79	48.02
33 31 11 00-0080	EA	12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	205.07	52.88
33 31 11 00-0081	EA	12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	220.88	59.23
33 31 11 00-0082 Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)				
33 31 11 00-0083	EA	1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	26.71	16.42
33 31 11 00-0084	EA	2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	34.81	21.23
33 31 11 00-0085	EA	3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	50.10	28.02
33 31 11 00-0086	EA	4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	67.49	34.80
33 31 11 00-0087	EA	6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	146.37	38.14
33 31 11 00-0088	EA	8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	191.55	50.80
33 31 11 00-0089 Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)				
33 31 11 00-0090	EA	1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	28.83	16.42
33 31 11 00-0091	EA	2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	36.05	21.23
33 31 11 00-0092	EA	3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	51.67	28.02
33 31 11 00-0093	EA	4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	70.05	34.80
33 31 11 00-0094	EA	6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	136.74	38.14
33 31 11 00-0095	EA	8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	173.25	50.80
33 31 11 00-0096	EA	10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	228.95	67.79
33 31 11 00-0097	EA	12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	342.32	90.46
33 31 11 00-0098 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)				
33 31 11 00-0099	EA	2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	32.14	16.42
33 31 11 00-0100	EA	2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	39.28	21.23
33 31 11 00-0101	EA	3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	49.49	28.02
33 31 11 00-0102	EA	4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	66.53	34.80
33 31 11 00-0103	EA	4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	68.94	34.80
33 31 11 00-0104 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)				
33 31 11 00-0105	EA	1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	40.80	21.23
33 31 11 00-0106	EA	2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	53.62	28.02
33 31 11 00-0107	EA	3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	86.56	37.81
33 31 11 00-0108	EA	4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	129.19	45.74
33 31 11 00-0109	EA	2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	52.62	28.02
33 31 11 00-0110	EA	3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	78.92	37.81
33 31 11 00-0111	EA	4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	116.58	45.74



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0112 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0113 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	31.46	16.42
33 31 11 00-0114 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	40.16	21.23
33 31 11 00-0115 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	64.03	28.02
33 31 11 00-0116 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	97.77	34.80
33 31 11 00-0117 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	49.11	21.23
33 31 11 00-0118 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	72.14	28.02
33 31 11 00-0119 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	60.86	28.02
33 31 11 00-0120 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	93.97	34.80
33 31 11 00-0121 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	97.45	34.80
33 31 11 00-0122 Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0123 EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	42.84	21.23
33 31 11 00-0124 EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	53.85	28.02
33 31 11 00-0125 EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	77.17	37.81
33 31 11 00-0126 EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	176.59	45.74
33 31 11 00-0127 EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	467.93	50.64
33 31 11 00-0128 Clean Out Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0129 EA 4" Clean Out Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain	197.40	87.04
33 31 11 00-0130 EA 6" Clean Out Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain	362.60	112.29
33 31 11 00-0131 EA 8" Clean Out Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain	479.18	158.24
33 31 11 00-0132 EA 10" Clean Out Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain	702.46	254.55
33 31 11 00-0133 Couplings, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0134 EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	17.37	10.86
33 31 11 00-0135 EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	22.07	13.97
33 31 11 00-0136 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	31.06	18.70
33 31 11 00-0137 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	37.54	21.81
33 31 11 00-0138 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	69.40	28.34
33 31 11 00-0139 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	134.76	38.14
33 31 11 00-0140 EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	196.47	50.80
33 31 11 00-0141 EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	306.45	67.66
33 31 11 00-0142 Adapters, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0143 EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting	94.12	59.82
33 31 11 00-0144 EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting	69.67	45.50
33 31 11 00-0145 EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting	70.31	45.50
33 31 11 00-0146 EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting	72.03	45.50
33 31 11 00-0147 EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	94.59	59.82
33 31 11 00-0148 EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	93.22	59.82
33 31 11 00-0149 EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	90.96	59.82
33 31 11 00-0150 EA 4" Drain Grate, Drain And Sewer Fitting	47.74	30.76
33 31 11 00-0151 Caps, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0152 EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	21.49	11.68
33 31 11 00-0153 EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	30.69	14.54
33 31 11 00-0154 EA 6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	49.47	18.78
33 31 11 00-0155 Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0156 EA 1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	17.08	10.86
33 31 11 00-0157 EA 2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	22.11	14.05
33 31 11 00-0158 EA 3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	30.89	18.86
33 31 11 00-0159 EA 4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	37.57	21.81
33 31 11 00-0160 EA 6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	55.47	28.34
33 31 11 00-0161 EA 8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	140.43	38.14
33 31 11 00-0162 Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0018) Note: ASTM 3034.		
33 31 11 00-0163 LF 4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	9.98	3.32
33 31 11 00-0164 LF 6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	14.08	3.86
33 31 11 00-0165 LF 8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	19.78	4.49
33 31 11 00-0166 LF 10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	25.50	4.65
33 31 11 00-0167 LF 12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	32.44	4.81
33 31 11 00-0168 LF 15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	44.18	4.99
33 31 11 00-0169 LF 18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	57.64	5.17
33 31 11 00-0170 LF 21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	76.45	5.60
33 31 11 00-0171 LF 24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	93.80	5.71
33 31 11 00-0172 LF 27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	117.25	7.09

33	Utilities
33 30	Sanitary Sewerage Utilities
33 31	Sanitary Sewerage Piping



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0173 Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0018)				
Note: ASTM 3034.				
33 31 11 00-0174	LF	4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	8.57	3.32
33 31 11 00-0175	LF	6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	11.58	3.86
33 31 11 00-0176	LF	8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	15.71	4.49
33 31 11 00-0177 Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0018)				
Note: ASTM 3034.				
33 31 11 00-0178 1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)				
33 31 11 00-0179	EA	4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	57.76	19.92
33 31 11 00-0180	EA	6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	83.77	23.17
33 31 11 00-0181	EA	8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	168.89	26.26
33 31 11 00-0182	EA	10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	471.49	30.89
33 31 11 00-0183	EA	12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	609.10	39.38
33 31 11 00-0184 1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)				
33 31 11 00-0185	EA	4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	52.71	19.92
33 31 11 00-0186	EA	6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	78.21	23.17
33 31 11 00-0187	EA	8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	154.82	26.26
33 31 11 00-0188	EA	10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	339.06	30.89
33 31 11 00-0189	EA	12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	483.18	39.38
33 31 11 00-0190	EA	15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,027.64	55.61
33 31 11 00-0191	EA	18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,627.76	78.78
33 31 11 00-0192	EA	21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,708.17	104.26
33 31 11 00-0193	EA	24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	3,691.74	139.01
33 31 11 00-0194 Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)				
33 31 11 00-0195	EA	4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	87.35	29.89
33 31 11 00-0196	EA	6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	136.45	33.13
33 31 11 00-0197	EA	6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	152.67	34.76
33 31 11 00-0198	EA	8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	167.98	36.38
33 31 11 00-0199	EA	8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	191.35	37.99
33 31 11 00-0200	EA	8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	357.31	39.62
33 31 11 00-0201	EA	10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	454.83	40.54
33 31 11 00-0202	EA	10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	514.52	42.48
33 31 11 00-0203	EA	10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	754.61	44.10
33 31 11 00-0204	EA	10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	980.49	46.34
33 31 11 00-0205	EA	12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	559.49	49.35
33 31 11 00-0206	EA	12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	593.55	50.97
33 31 11 00-0207	EA	12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	841.39	52.59
33 31 11 00-0208	EA	12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,207.82	54.83
33 31 11 00-0209	EA	12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,360.40	59.08
33 31 11 00-0210 Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)				
33 31 11 00-0211	EA	4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	83.43	29.89
33 31 11 00-0212	EA	6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	123.41	33.13
33 31 11 00-0213	EA	6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	135.14	34.76
33 31 11 00-0214	EA	8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	162.38	36.38
33 31 11 00-0215	EA	8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	184.67	37.99
33 31 11 00-0216	EA	8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	277.59	39.62
33 31 11 00-0217	EA	10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	417.05	40.86
33 31 11 00-0218	EA	10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	425.65	42.48
33 31 11 00-0219	EA	10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	634.95	44.10
33 31 11 00-0220	EA	10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	701.94	46.34
33 31 11 00-0221	EA	12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	527.90	49.35
33 31 11 00-0222	EA	12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	544.49	50.97
33 31 11 00-0223	EA	12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	774.14	52.59
33 31 11 00-0224	EA	12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	930.46	54.83
33 31 11 00-0225	EA	12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	972.03	59.08
33 31 11 00-0226	EA	15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,197.44	71.06
33 31 11 00-0227	EA	15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,327.51	75.30
33 31 11 00-0228	EA	15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,656.79	83.41
33 31 11 00-0229 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)				
33 31 11 00-0230	EA	4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	57.31	19.92
33 31 11 00-0231	EA	6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	86.74	23.17
33 31 11 00-0232	EA	8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	125.75	26.42
33 31 11 00-0233	EA	10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	232.90	30.89
33 31 11 00-0234	EA	12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	329.21	39.38
33 31 11 00-0235	EA	15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	637.99	55.61
33 31 11 00-0236	EA	18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,192.82	78.78
33 31 11 00-0237	EA	21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,982.87	104.26
33 31 11 00-0238	EA	24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,867.16	139.01



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 31 11 00-0239 Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)					
33 31 11 00-0240	EA	6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	105.09		21.55
33 31 11 00-0241	EA	8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	148.44		23.17
33 31 11 00-0242	EA	8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	156.63		24.79
33 31 11 00-0243	EA	10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	344.82		27.03
33 31 11 00-0244	EA	10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	395.64		28.66
33 31 11 00-0245	EA	12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	441.87		31.28
33 31 11 00-0246	EA	12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	506.32		32.90
33 31 11 00-0247	EA	12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	579.82		35.14
33 31 11 00-0248	EA	15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	871.48		47.50
33 31 11 00-0249 Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)					
33 31 11 00-0250	EA	6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	88.44		
33 31 11 00-0251	EA	8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	116.04		
33 31 11 00-0252	EA	8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	118.45		
33 31 11 00-0253	EA	10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	192.28		
33 31 11 00-0254	EA	10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	202.40		
33 31 11 00-0255	EA	10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	376.42		
33 31 11 00-0256	EA	12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	219.68		
33 31 11 00-0257	EA	12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	238.64		
33 31 11 00-0258	EA	12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	519.60		
33 31 11 00-0259	EA	12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	610.90		
33 31 11 00-0260	EA	15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	254.99		
33 31 11 00-0261	EA	15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	271.54		
33 31 11 00-0262 Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)					
33 31 11 00-0263	EA	6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	94.10		
33 31 11 00-0264	EA	8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	116.04		
33 31 11 00-0265	EA	8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	126.16		
33 31 11 00-0266	EA	10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	177.28		
33 31 11 00-0267	EA	10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	201.19		
33 31 11 00-0268	EA	10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	300.89		
33 31 11 00-0269	EA	12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	218.48		
33 31 11 00-0270	EA	12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	237.50		
33 31 11 00-0271	EA	12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	350.48		
33 31 11 00-0272	EA	12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	424.21		
33 31 11 00-0273	EA	15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	254.25		
33 31 11 00-0274	EA	15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	265.94		
33 31 11 00-0275	EA	15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	432.99		
33 31 11 00-0276	EA	15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	477.48		
33 31 11 00-0277	EA	15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	668.73		
33 31 11 00-0278 Couplings And Plug Fittings (33 31 11)					
33 31 11 00-0279 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (33 31 11 00-0278)					
Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps. Fernco 1056.					
33 31 11 00-0280	EA	1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	15.70		5.64
33 31 11 00-0281	EA	2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	17.17		6.57
33 31 11 00-0282	EA	3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	19.83		7.51
33 31 11 00-0283	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	22.46		7.98
33 31 11 00-0284	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	27.39		8.45
33 31 11 00-0285	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	32.36		9.39
33 31 11 00-0286	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	41.02		10.33
33 31 11 00-0287	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	50.51		10.80
33 31 11 00-0288	EA	12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	92.35		11.27
33 31 11 00-0289	EA	15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	126.54		12.21
33 31 11 00-0290	EA	18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	246.42		12.68
33 31 11 00-0291	EA	21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	286.62		13.39
33 31 11 00-0292	EA	24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	317.72		14.09
33 31 11 00-0293	EA	27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	380.94		15.03
33 32 Sanitary Sewerage Equipment (33 30)					
33 32 16 Packaged Wastewater Grinder Pump Assemblies (33 32)					
33 32 16 00-0001 Submersible Grinder Pumps, Cast Iron With Bronze Impeller (33 32 16)					
33 32 16 00-0002	EA	2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	1,973.35		277.89
Note: Zoeller 840 series.					
33 32 16 00-0003	EA	2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	1,944.05		277.89
Note: Zoeller 840 series.					
33 32 16 00-0004	EA	Simplex Control Panel With Auto Reversing Switch	946.11		92.60
Note: For Zoeller 840 series grinder pump.					

33 Utilities**33 30 Sanitary Sewerage Utilities****33 32 Sanitary Sewerage Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 32 16 00-0005	EA	Duplex Control Panel With Auto Reversing Switch Note: For Zoeller 840 series grinder pump.	1,490.67	92.60
33 32 16 00-0006	EA	Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74)	7,905.55	
33 32 16 00-0007		Submersible Grinder Pumps (33 32 16) Note: Includes 50' of cord with pumps unless otherwise noted.		
33 32 16 00-0008	EA	2 HP Submersible Grinder Pump @ 3450RPM, Explosion Proof	3,410.05	554.63
33 32 16 00-0009	EA	3 HP Submersible Grinder Pump @ 3450RPM, Explosion Proof	5,171.69	647.07
33 32 16 00-0010	EA	5 HP Submersible Grinder Pump @ 3450RPM, Explosion Proof	6,316.89	831.96
33 34		Onsite Wastewater Disposal (33 30) Note: Excludes distribution field piping, trenching or excavation.		
33 34 13		Septic Tanks (33 34)		
33 34 13 13		Concrete Septic Tanks (33 34 13)		
33 34 13 13-0001		Precast Concrete Septic Tank (33 34 13 13) Note: Includes external coating.		
33 34 13 13-0002	EA	1,000 Gallon Precast Septic Tank..... For Non-Traffic Rated, Deduct	2,481.52 -450.10	554.63
33 34 13 13-0003	EA	1,250 Gallon Precast Septic Tank..... For Non-Traffic Rated, Deduct	2,966.31 -553.66	612.22
33 34 13 13-0004	EA	1,500 Gallon Precast Septic Tank..... For Non-Traffic Rated, Deduct	3,433.06 -652.70	669.72
33 34 13 13-0005	EA	2,000 Gallon Precast Septic Tank..... For Non-Traffic Rated, Deduct	4,367.43 -869.06	727.96
33 34 13 13-0006	EA	2,500 Gallon Precast Septic Tank..... For Non-Traffic Rated, Deduct	5,244.10 -1,003.53	1,005.27
33 34 13 13-0007	EA	4,000 Gallon Precast Septic Tank..... For Non-Traffic Rated, Deduct	13,570.30 -2,967.35	1,386.59
33 34 13 13-0008	EA	5,000 Gallon Precast Septic Tank..... For Non-Traffic Rated, Deduct	24,545.13 -5,500.27	2,079.88
33 34 13 13-0009	EA	7,500 Gallon Precast Septic Tank..... For Non-Traffic Rated, Deduct	27,686.07 -6,035.64	2,911.84
33 34 13 13-0010	EA	10,000 Gallon Precast Septic Tank..... For Non-Traffic Rated, Deduct	33,926.43 -7,418.55	3,483.85
33 34 13 13-0011	EA	12,500 Gallon Precast Septic Tank..... For Non-Traffic Rated, Deduct	40,160.53 -8,711.32	4,315.81
33 34 13 23		Fiberglass Septic Tank (33 34 13)		
33 34 13 23-0001		Fiberglass Septic Tank (33 34 13 23)		
33 34 13 23-0002	EA	1,000 Gallon Fiberglass Septic Tank	1,312.02	415.98
33 34 13 23-0003	EA	1,250 Gallon Fiberglass Septic Tank	1,663.97	554.63
33 34 13 23-0004	EA	1,500 Gallon Fiberglass Septic Tank	1,763.39	502.68
33 34 13 23-0005	EA	2,000 Gallon Fiberglass Septic Tank	2,189.09	544.19
33 34 13 23-0006	EA	2,500 Gallon Fiberglass Septic Tank	2,687.14	754.30
33 34 13 23-0007	EA	4,000 Gallon Fiberglass Septic Tank	6,435.68	1,039.95
33 34 13 23-0008	EA	5,000 Gallon Fiberglass Septic Tank	11,466.53	1,559.92
33 34 13 23-0009	EA	7,500 Gallon Fiberglass Septic Tank	13,151.17	2,183.87
33 34 13 23-0010	EA	10,000 Gallon Fiberglass Septic Tank	16,096.64	2,610.21
33 34 13 33		Polyethylene Septic Tank (33 34 13)		
33 34 13 33-0001		High Density Polyethylene (HDPE) Septic Tank (33 34 13 33)		
33 34 13 33-0002	EA	300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	813.02	170.41
33 34 13 33-0003	EA	500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,217.79	191.72
33 34 13 33-0004	EA	900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,677.69	234.32
33 34 13 33-0005	EA	1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,730.04	255.62
33 34 13 33-0006	EA	1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,995.51	276.92
33 34 13 33-0007	EA	1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,378.00	298.22
33 34 13 33-0008	EA	750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,678.27	213.01
33 34 13 33-0009	EA	1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,841.48	255.62
33 34 13 33-0010	EA	1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,154.31	276.92
33 34 13 33-0011	EA	1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,517.29	298.22
33 34 51		Drainage Field System (33 34)		
33 34 51 00-0001		Leaching Pit - Precast Concrete (33 34 51) Note: Includes external coating.		
33 34 51 00-0002	EA	3' Diameter, 3' High, Precast Concrete Leaching Pit	816.58	81.34
33 34 51 00-0003	EA	4' Diameter, 3' High, Precast Concrete Leaching Pit	1,158.70	115.55
33 34 51 00-0004	EA	6' Diameter, 3' High, Precast Concrete Leaching Pit	1,543.29	138.66
33 34 51 00-0005	EA	8' Diameter, 4' High, Precast Concrete Leaching Pit	2,506.70	231.09
33 34 51 00-0006	EA	10' Diameter, 4' High, Precast Concrete Leaching Pit	3,672.99	323.54



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Onsite Wastewater Disposal	33 34	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 34 53 Distribution Chambers ^(33 34)		
33 34 53 13 Drainage Field Concrete Distribution Chambers ^(33 34 53)		
33 34 53 13-0001 Concrete Distribution Boxes ^(33 34 53 13) Note: Includes internal and external coating.		
33 34 53 13-0002 EA 3 Outlet Concrete Distribution Box.....	224.06	55.61
33 34 53 13-0003 EA 5 Outlet Concrete Distribution Box.....	261.62	66.73
33 34 53 13-0004 EA 8 Outlet Concrete Distribution Box.....	441.26	77.86
33 34 53 13-0005 EA 12 Outlet Concrete Distribution Box.....	863.11	133.47
33 34 53 13-0006 Leaching Field Chambers - Precast Concrete ^(33 34 53 13)		
33 34 53 13-0007 EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4".....	978.76	70.62
33 34 53 13-0008 EA Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6".....	1,188.70	96.30
33 34 56 Drainage Field Dosing Chambers ^(33 34)		
33 34 56 00-0001 Dosing Siphon ^(33 34 56)		
33 34 56 00-0002 EA Dosing Siphon With Electrical Connection And Solenoid Valve.....	3,317.26	
33 34 56 00-0003 EA Solar Power Control For Dosing Siphon	2,268.83	
33 34 56 00-0004 EA Electrical Power Control For Dosing Siphon.....	2,180.82	
33 40 Stormwater Utilities ⁽³³⁾		
33 41 Subdrainage ^(33 40)		
33 41 16 Subdrainage Piping ^(33 41)		
See CSI section 33 42 11 00-0239 for polyethylene drain pipe.		
33 41 16 00-0001 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 ^(33 41 16) Note: Includes fittings, couplings, elbows, etc.		
33 41 16 00-0002 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	5.40	3.34
33 41 16 00-0003 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	5.90	3.61
33 41 16 00-0004 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	8.28	4.33
33 41 16 00-0005 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	12.79	5.41
33 41 16 00-0006 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	20.93	6.18
33 41 16 00-0007 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	26.96	7.21
33 41 16 00-0008 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	42.87	8.65
33 41 16 00-0009 Perforated Non Reinforced Concrete Drainage Piping, C444 ^(33 41 16)		
33 41 16 00-0010 LF 6" Perforated Non Reinforced Concrete Drainage Pipe.....	22.96	9.53
For Extra Strength, Add	1.10	
For >1,000, Deduct	-1.15	
33 41 16 00-0011 LF 8" Perforated Non Reinforced Concrete Drainage Pipe.....	26.66	10.58
For Extra Strength, Add	1.36	
For >1,000, Deduct	-1.33	
33 41 16 00-0012 LF 10" Perforated Non Reinforced Concrete Drainage Pipe.....	30.04	11.64
For Extra Strength, Add	1.58	
For >1,000, Deduct	-1.50	
33 41 16 00-0013 LF 12" Perforated Non Reinforced Concrete Drainage Pipe.....	34.97	12.70
For Extra Strength, Add	1.98	
For >1,000, Deduct	-1.75	
33 41 16 00-0014 Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654 ^(33 41 16)		
Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 00-0015 LF 6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	19.55	9.53
For >1,000, Deduct	-0.98	
33 41 16 00-0016 LF 8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	21.66	10.58
For >1,000, Deduct	-1.08	
33 41 16 00-0017 LF 10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	23.87	11.64
For >1,000, Deduct	-1.19	
33 41 16 00-0018 LF 12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	27.06	12.09
For >1,000, Deduct	-1.35	
33 41 16 00-0019 LF 15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	31.24	13.60
For >1,000, Deduct	-1.56	
33 41 16 00-0020 LF 18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	38.70	17.39
For >1,000, Deduct	-1.94	
33 41 16 00-0021 LF 21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	48.41	22.30
For >1,000, Deduct	-2.42	
33 41 16 00-0022 LF 24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	58.99	27.21
For >1,000, Deduct	-2.95	
33 41 16 00-0023 Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654 ^(33 41 16)		
33 41 16 00-0024 LF 6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	18.43	9.53
For >1,000, Deduct	-0.92	

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 00-0025	LF	8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	22.90	10.58
		<i>For >1,000, Deduct</i>	-1.15	
33 41 16 00-0026	LF	10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	28.38	11.64
		<i>For >1,000, Deduct</i>	-1.42	
33 41 16 00-0027	LF	12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	33.97	12.70
		<i>For >1,000, Deduct</i>	-1.70	
33 41 16 00-0028	LF	15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	38.77	14.13
		<i>For >1,000, Deduct</i>	-1.94	
33 41 16 00-0029	LF	18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	50.00	17.62
		<i>For >1,000, Deduct</i>	-2.50	
33 41 16 00-0030		Perforated Vitrified Clay Drainage Piping, C700 (33 41 16)		
33 41 16 00-0031	LF	4" Perforated Vitrified Clay Drainage Pipe	20.12	10.58
33 41 16 00-0032	LF	6" Perforated Vitrified Clay Drainage Pipe	24.11	11.90
33 41 16 00-0033	LF	8" Perforated Vitrified Clay Drainage Pipe	27.65	11.90
33 41 16 00-0034	LF	10" Perforated Vitrified Clay Drainage Pipe	37.19	14.54
33 41 16 00-0035	LF	12" Perforated Vitrified Clay Drainage Pipe	44.33	15.87
33 41 16 00-0036		Geotextile Filter Fabric Sock (33 41 16)		
33 41 16 00-0037	LF	3" Geotextile Filter Fabric Sock.....	0.55	
33 41 16 00-0038	LF	4" Geotextile Filter Fabric Sock.....	0.72	
33 41 16 00-0039	LF	6" Geotextile Filter Fabric Sock.....	1.11	
33 41 16 00-0040	LF	8" Geotextile Filter Fabric Sock.....	1.48	
33 41 16 00-0041	LF	10" Geotextile Filter Fabric Sock.....	2.16	
33 41 16 00-0042	LF	12" Geotextile Filter Fabric Sock.....	2.92	
33 41 16 00-0043	LF	15" Geotextile Filter Fabric Sock.....	3.44	
33 41 16 00-0044		Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16)		
		Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 00-0045	LF	6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	16.14	4.53
		<i>For Full Perforated, Add</i>	0.71	
33 41 16 00-0046	LF	8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	20.31	5.50
		<i>For Full Perforated, Add</i>	0.93	
33 41 16 00-0047	LF	10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	25.63	6.98
		<i>For Full Perforated, Add</i>	1.17	
33 41 16 00-0048	LF	12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	28.72	8.24
		<i>For Full Perforated, Add</i>	1.22	
33 41 16 00-0049	LF	15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	32.42	8.54
		<i>For Full Perforated, Add</i>	1.54	
33 41 16 00-0050	LF	18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	36.23	8.85
		<i>For Full Perforated, Add</i>	1.85	
33 41 16 00-0051	LF	21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	41.16	9.55
		<i>For Full Perforated, Add</i>	2.21	
33 41 16 00-0052		Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16)		
		Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 00-0053	LF	6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	17.27	4.53
		<i>For Full Perforated, Add</i>	0.82	
33 41 16 00-0054	LF	8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	21.85	5.50
		<i>For Full Perforated, Add</i>	1.09	
33 41 16 00-0055	LF	10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	27.51	6.98
		<i>For Full Perforated, Add</i>	1.36	
33 41 16 00-0056	LF	12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	30.54	8.24
		<i>For Full Perforated, Add</i>	1.40	
33 41 16 00-0057	LF	15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	34.68	8.54
		<i>For Full Perforated, Add</i>	1.76	
33 41 16 00-0058	LF	18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	38.91	8.85
		<i>For Full Perforated, Add</i>	2.12	
33 41 16 00-0059	LF	21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	44.28	9.55
		<i>For Full Perforated, Add</i>	2.52	
33 41 16 00-0060		Strip-Perforated, Corrugated Aluminum Pipe (33 41 16)		
		Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 00-0061	LF	6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	17.64	4.53
		<i>For Full Perforated, Add</i>	0.86	
33 41 16 00-0062	LF	8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	22.32	5.50
		<i>For Full Perforated, Add</i>	1.13	
33 41 16 00-0063	LF	10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	28.11	6.98
		<i>For Full Perforated, Add</i>	1.42	
33 41 16 00-0064	LF	12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	35.06	8.24
		<i>For Full Perforated, Add</i>	1.86	
33 41 16 00-0065	LF	15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	40.30	8.54
		<i>For Full Perforated, Add</i>	2.32	
33 41 16 00-0066	LF	18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	45.72	8.85
		<i>For Full Perforated, Add</i>	2.80	
33 41 16 00-0067	LF	21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	52.22	9.55
		<i>For Full Perforated, Add</i>	3.31	



Utilities			33	CS
Stormwater Utilities			33 40	
Subdrainage			33 41	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 00-0068 Prefabricated Composite Drains (33 41 16)			
33 41 16 00-0069 Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) (33 41 16 00-0068)			
Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.			
33 41 16 00-0070	LF 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	7.14	1.73
	For External Typar Geotextile Wrap, Add	1.15	
33 41 16 00-0071	EA Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	31.18	
33 41 16 00-0072	EA End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	31.18	
33 41 16 00-0073	EA Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	57.95	
33 41 16 00-0074	EA End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	57.95	
33 41 16 00-0075	LF 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	11.13	2.16
	For External Typar Geotextile Wrap, Add	1.73	
33 41 16 00-0076	EA Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	44.92	
33 41 16 00-0077	EA End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	44.92	
33 41 16 00-0078	EA Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	65.14	
33 41 16 00-0079	EA End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	65.14	
33 41 19 Underslab Drainage (33 41)			
33 41 19 00-0001 Capillary Water Barrier Underslab Drainage (33 41 19)			
Note: Consists of a layer of fine granular material overlying a coarse layer.			
33 41 19 00-0002	CY 2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	44.89	
33 41 19 00-0003	CY 4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	42.87	
33 41 19 00-0004	CY 6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	42.07	
33 41 19 00-0005	CY 8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	40.86	
33 42 Stormwater Conveyance (33 40)			
Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.			
33 42 11 Stormwater Gravity Piping (33 42)			
33 42 11 00-0001 Reinforced Concrete Piping (33 42 11)			
33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets (33 42 11 00-0001)			
33 42 11 00-0003	LF 12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	33.85	12.70
	For >1,000, Deduct	-1.69	
	For Class 4, Add	1.49	
	For Class 5, Add	3.14	
33 42 11 00-0004	LF 15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	40.30	14.13
	For >1,000, Deduct	-2.02	
	For Class 4, Add	1.91	
	For Class 5, Add	4.02	
33 42 11 00-0005	LF 18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	46.32	17.62
	For >1,000, Deduct	-2.32	
	For Class 4, Add	2.01	
	For Class 5, Add	4.23	
33 42 11 00-0006	LF 21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	59.24	22.22
	For >1,000, Deduct	-2.96	
	For Class 4, Add	2.61	
	For Class 5, Add	5.50	
33 42 11 00-0007	LF 24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	69.66	26.98
	For >1,000, Deduct	-3.48	
	For Class 4, Add	2.96	
	For Class 5, Add	6.22	
33 42 11 00-0008	LF 27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	88.13	34.20
	For >1,000, Deduct	-4.41	
	For Class 4, Add	3.73	
	For Class 5, Add	7.86	
33 42 11 00-0009	LF 30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	93.53	35.31
	For >1,000, Deduct	-4.68	
	For Class 4, Add	4.04	
	For Class 5, Add	8.50	
33 42 11 00-0010	LF 36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	114.36	40.13
	For >1,000, Deduct	-5.72	
	For Class 4, Add	5.47	
	For Class 5, Add	11.52	
33 42 11 00-0011	LF 42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	145.81	44.14
	For >1,000, Deduct	-7.29	
	For Class 4, Add	7.92	
	For Class 5, Add	16.67	
33 42 11 00-0012	LF 48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	173.63	49.15
	For >1,000, Deduct	-8.68	
	For Class 4, Add	9.82	
	For Class 5, Add	20.68	
33 42 11 00-0013	LF 54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	214.52	56.17
	For >1,000, Deduct	-10.73	
	For Class 4, Add	12.76	
	For Class 5, Add	26.85	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0014	LF		60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	258.23	65.16
			For >1,000, Deduct	-12.91	
			For Class 4, Add	15.69	
			For Class 5, Add	33.03	
33 42 11 00-0015	LF		66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	389.20	72.22
			For >1,000, Deduct	-19.46	
			For Class 4, Add	27.22	
			For Class 5, Add	57.30	
33 42 11 00-0016	LF		72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	452.45	78.65
			For >1,000, Deduct	-22.62	
			For Class 4, Add	32.31	
			For Class 5, Add	68.02	
33 42 11 00-0017	LF		78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	542.21	88.27
			For >1,000, Deduct	-27.11	
			For Class 4, Add	39.50	
			For Class 5, Add	83.16	
33 42 11 00-0018	LF		84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	693.60	98.31
			For >1,000, Deduct	-34.68	
			For Class 4, Add	52.55	
			For Class 5, Add	110.63	
33 42 11 00-0019	LF		14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size)	79.26	23.43
			For >1,000, Deduct	-3.96	
			For Class 4, Add	4.35	
			For Class 5, Add	9.16	
			For Horizontal Elliptical - II (HE- II), Add	4.58	
			For Horizontal Elliptical - III (HE- III), Add	10.07	
			For Horizontal Elliptical - IV (HE- IV), Add	21.98	
33 42 11 00-0020	LF		19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size)	111.17	35.89
			For >1,000, Deduct	-5.56	
			For Class 4, Add	5.69	
			For Class 5, Add	11.98	
			For Horizontal Elliptical - II (HE- II), Add	5.99	
			For Horizontal Elliptical - III (HE- III), Add	13.18	
			For Horizontal Elliptical - IV (HE- IV), Add	28.76	
33 42 11 00-0021	LF		22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size)	131.94	45.48
			For >1,000, Deduct	-6.60	
			For Class 4, Add	6.36	
			For Class 5, Add	13.39	
			For Horizontal Elliptical - II (HE- II), Add	6.70	
			For Horizontal Elliptical - III (HE- III), Add	14.73	
			For Horizontal Elliptical - IV (HE- IV), Add	32.15	
33 42 11 00-0022	LF		24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size)	139.81	47.52
			For >1,000, Deduct	-6.99	
			For Class 4, Add	6.83	
			For Class 5, Add	14.39	
			For Horizontal Elliptical - II (HE- II), Add	7.19	
			For Horizontal Elliptical - III (HE- III), Add	15.82	
			For Horizontal Elliptical - IV (HE- IV), Add	34.53	
33 42 11 00-0023	LF		27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size)	159.14	50.18
			For >1,000, Deduct	-7.96	
			For Class 4, Add	8.31	
			For Class 5, Add	17.49	
			For Horizontal Elliptical - II (HE- II), Add	8.75	
			For Horizontal Elliptical - III (HE- III), Add	19.24	
			For Horizontal Elliptical - IV (HE- IV), Add	41.99	
33 42 11 00-0024	LF		29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size)	178.47	52.82
			For >1,000, Deduct	-8.92	
			For Class 4, Add	9.79	
			For Class 5, Add	20.60	
			For Horizontal Elliptical - II (HE- II), Add	10.30	
			For Horizontal Elliptical - III (HE- III), Add	22.66	
			For Horizontal Elliptical - IV (HE- IV), Add	49.44	
33 42 11 00-0025	LF		34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size)	215.56	58.13
			For >1,000, Deduct	-10.78	
			For Class 4, Add	12.59	
			For Class 5, Add	26.50	
			For Horizontal Elliptical - II (HE- II), Add	13.25	
			For Horizontal Elliptical - III (HE- III), Add	29.15	
			For Horizontal Elliptical - IV (HE- IV), Add	63.61	
33 42 11 00-0026	LF		38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size)	258.28	65.37
			For >1,000, Deduct	-12.91	
			For Class 4, Add	15.66	
			For Class 5, Add	32.98	
			For Horizontal Elliptical - II (HE- II), Add	16.49	
			For Horizontal Elliptical - III (HE- III), Add	36.27	
			For Horizontal Elliptical - IV (HE- IV), Add	79.14	
33 42 11 00-0027	LF		43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size)	294.10	74.72
			For >1,000, Deduct	-14.71	
			For Class 4, Add	17.80	
			For Class 5, Add	37.47	
			For Horizontal Elliptical - II (HE- II), Add	18.74	
			For Horizontal Elliptical - III (HE- III), Add	41.22	
			For Horizontal Elliptical - IV (HE- IV), Add	89.93	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-0028	LF 48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	362.38		86.67	
	For >1,000, Deduct	-18.12			
	For Class 4, Add	22.66			
	For Class 5, Add	47.71			
	For Horizontal Elliptical - II (HE- II), Add	23.86			
	For Horizontal Elliptical - III (HE- III), Add	52.49			
	For Horizontal Elliptical - IV (HE- IV), Add	114.51			
33 42 11 00-0029	LF 53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	412.55		95.49	
	For >1,000, Deduct	-20.63			
	For Class 4, Add	26.23			
	For Class 5, Add	55.22			
33 42 11 00-0030	LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	496.80		104.33	
	For >1,000, Deduct	-24.84			
	For Class 4, Add	33.00			
	For Class 5, Add	69.47			
33 42 11 00-0031	LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	591.19		117.97	
	For >1,000, Deduct	-29.56			
	For Class 4, Add	40.19			
	For Class 5, Add	84.62			
33 42 11 00-0032	LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	641.04		130.81	
	For >1,000, Deduct	-32.05			
	For Class 4, Add	43.15			
	For Class 5, Add	90.85			
33 42 11 00-0033	LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	811.59		137.23	
	For >1,000, Deduct	-40.58			
	For Class 4, Add	58.47			
	For Class 5, Add	123.09			
33 42 11 00-0034	LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	935.84		143.65	
	For >1,000, Deduct	-46.79			
	For Class 4, Add	69.39			
	For Class 5, Add	146.07			
33 42 11 00-0035	Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)				
33 42 11 00-0036	EA 12" Concrete Reducing Wye Without Gaskets	380.41		48.37	
33 42 11 00-0037	EA 15" Concrete Reducing Wye Without Gaskets	456.51		58.95	
33 42 11 00-0038	EA 18" Concrete Reducing Wye Without Gaskets	561.68		65.00	
33 42 11 00-0039	EA 21" Concrete Reducing Wye Without Gaskets	646.43		80.11	
33 42 11 00-0040	EA 24" Concrete Reducing Wye Without Gaskets	732.39		96.74	
33 42 11 00-0041	Concrete Pipe Joint Gaskets (33 42 11 00-0001)				
33 42 11 00-0042	EA 12" Diameter Concrete Pipe Joint Gasket	3.48			
33 42 11 00-0043	EA 15" Diameter Concrete Pipe Joint Gasket	4.12			
33 42 11 00-0044	EA 18" Diameter Concrete Pipe Joint Gasket	4.78			
33 42 11 00-0045	EA 21" Diameter Concrete Pipe Joint Gasket	5.77			
33 42 11 00-0046	EA 24" Diameter Concrete Pipe Joint Gasket	6.76			
33 42 11 00-0047	EA 27" Diameter Concrete Pipe Joint Gasket	7.54			
33 42 11 00-0048	EA 30" Diameter Concrete Pipe Joint Gasket	8.28			
33 42 11 00-0049	EA 36" Diameter Concrete Pipe Joint Gasket	10.12			
33 42 11 00-0050	EA 42" Diameter Concrete Pipe Joint Gasket	11.73			
33 42 11 00-0051	EA 48" Diameter Concrete Pipe Joint Gasket	13.53			
33 42 11 00-0052	EA 54" Diameter Concrete Pipe Joint Gasket	16.58			
33 42 11 00-0053	EA 60" Diameter Concrete Pipe Joint Gasket	24.54			
33 42 11 00-0054	EA 66" Diameter Concrete Pipe Joint Gasket	25.51			
33 42 11 00-0055	EA 72" Diameter Concrete Pipe Joint Gasket	26.45			
33 42 11 00-0056	EA 78" Diameter Concrete Pipe Joint Gasket	30.46			
33 42 11 00-0057	EA 84" Diameter Concrete Pipe Joint Gasket	36.52			
33 42 11 00-0058	Couplings (33 42 11 00-0001)				
33 42 11 00-0059	Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)				
	Flexible Pipe Couplings (33 42 11 00-0058)				
	Note: For concrete to cast iron or plastic pipe. Includes stainless steel clamps. Fernco 1006.				
33 42 11 00-0060	EA 4" x 3" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	32.81			
33 42 11 00-0061	EA 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	30.23			
33 42 11 00-0062	EA 6" x 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	51.93			
33 42 11 00-0063	EA 6" x 5" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	53.99			
33 42 11 00-0064	EA 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	50.03			
33 42 11 00-0065	EA 8" x 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	77.36			
33 42 11 00-0066	EA 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	66.60			
33 42 11 00-0067	EA 10" x 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	97.66			
33 42 11 00-0068	EA 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	86.32			
33 42 11 00-0069	EA 12" x 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	118.27			
33 42 11 00-0070	EA 12" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	98.61			
33 42 11 00-0071	EA 15" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	310.93			
33 42 11 00-0072	Precast Concrete Cut Off Wall (33 42 11 00-0001)				
33 42 11 00-0073	EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	218.74		141.24	
33 42 11 00-0074	EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	269.65		174.95	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0075 EA 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	333.40	221.49
33 42 11 00-0076 EA 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	393.94	264.83
33 42 11 00-0077 EA 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	452.80	306.48
33 42 11 00-0078 EA 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	555.15	391.63
33 42 11 00-0079 EA 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	720.17	539.29
33 42 11 00-0080 EA 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	895.98	680.53
33 42 11 00-0081 EA 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,103.42	853.72
33 42 11 00-0082 EA 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,233.46	962.21
33 42 11 00-0083 EA 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,376.18	1,078.58
33 42 11 00-0084 EA 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,520.55	1,198.15
33 42 11 00-0085 EA 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,580.25	1,243.90
33 42 11 00-0086 EA 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,632.77	1,284.02
33 42 11 00-0087 EA 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,685.30	1,324.15
33 42 11 00-0088 EA 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,739.37	1,364.27
33 42 11 00-0089 Strap Assembly (33 42 11 00-0001) Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0090 EA Up To 24" Diameter Pipe, 12' Strap Assembly.....	167.29	
33 42 11 00-0091 EA >24" Diameter Pipe, 12' Strap Assembly.....	235.11	
33 42 11 00-0092 Prestressed Concrete Cylinder Piping (33 42 11)		
33 42 11 00-0093 150 PSI Prestressed Concrete Cylinder Pipe And Fittings (33 42 11 00-0092)		
33 42 11 00-0094 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets (33 42 11 00-0093) Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0095 LF 12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	85.83	12.70
For >1,000, Deduct	-4.29	
For 100 PSI, Deduct	-16.92	
33 42 11 00-0096 LF 15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	91.79	14.13
For >1,000, Deduct	-4.59	
For 100 PSI, Deduct	-17.90	
33 42 11 00-0097 LF 18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	100.69	17.62
For >1,000, Deduct	-5.03	
For 100 PSI, Deduct	-18.88	
33 42 11 00-0098 LF 21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	111.19	22.22
For >1,000, Deduct	-5.56	
For 100 PSI, Deduct	-19.86	
33 42 11 00-0099 LF 24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	121.91	26.98
For >1,000, Deduct	-6.10	
For 100 PSI, Deduct	-20.84	
33 42 11 00-0100 LF 30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	144.39	35.31
For >1,000, Deduct	-7.22	
For 100 PSI, Deduct	-23.34	
33 42 11 00-0101 LF 36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	160.06	40.13
For >1,000, Deduct	-8.00	
For 100 PSI, Deduct	-25.83	
33 42 11 00-0102 LF 42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	185.00	44.14
For >1,000, Deduct	-9.25	
For 100 PSI, Deduct	-30.64	
33 42 11 00-0103 LF 48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	212.02	49.15
For >1,000, Deduct	-10.60	
For 100 PSI, Deduct	-35.45	
33 42 11 00-0104 LF 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	279.54	63.00
For >1,000, Deduct	-13.98	
For 100 PSI, Deduct	-47.39	
33 42 11 00-0105 LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	335.99	73.09
For >1,000, Deduct	-16.80	
For 100 PSI, Deduct	-57.90	
33 42 11 00-0106 LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	377.07	81.01
For >1,000, Deduct	-18.85	
For 100 PSI, Deduct	-65.47	
33 42 11 00-0107 LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	419.93	88.20
For >1,000, Deduct	-21.00	
For 100 PSI, Deduct	-73.48	
33 42 11 00-0108 LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	476.65	99.00
For >1,000, Deduct	-23.83	
For 100 PSI, Deduct	-83.73	
33 42 11 00-0109 LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	533.39	110.25
For >1,000, Deduct	-26.67	
For 100 PSI, Deduct	-93.97	
33 42 11 00-0110 LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	656.57	128.70
For >1,000, Deduct	-32.83	
For 100 PSI, Deduct	-118.02	
33 42 11 00-0111 LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	771.12	146.98
For >1,000, Deduct	-38.56	
For 100 PSI, Deduct	-140.29	
33 42 11 00-0112 LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	894.56	158.57
For >1,000, Deduct	-44.73	
For 100 PSI, Deduct	-167.01	
33 42 11 00-0113 LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,006.57	168.39
For >1,000, Deduct	-50.33	
For 100 PSI, Deduct	-191.50	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-0114	LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	1,207.64 -60.38 -238.26		178.21
33 42 11 00-0115	LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	1,398.62 -69.93 -282.80		187.20
33 42 11 00-0116	LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	1,521.92 -76.10 -310.41		196.19
33 42 11 00-0117	LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	1,646.98 -82.35 -338.47		205.18
33 42 11 00-0118	LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	1,771.17 -88.56 -366.30		214.18
33 42 11 00-0119	LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	1,895.35 -94.77 -394.14		223.17
33 42 11 00-0120 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets (33				
42 11 00-0093)				
33 42 11 00-0121	EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	328.92		119.04
33 42 11 00-0122	EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	457.67		170.05
33 42 11 00-0123	EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	592.42		226.73
33 42 11 00-0124	EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	727.17		283.41
33 42 11 00-0125	EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	886.83		352.20
33 42 11 00-0126	EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,130.64		472.36
33 42 11 00-0127	EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,408.31		561.76
33 42 11 00-0128	EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,640.87		655.65
33 42 11 00-0129	EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,852.52		748.75
33 42 11 00-0130	EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,285.37		934.93
33 42 11 00-0131	EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,996.51		1,260.02
33 42 11 00-0132	EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,346.26		1,395.02
33 42 11 00-0133	EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,696.01		1,530.02
33 42 11 00-0134	EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,390.01		1,755.02
33 42 11 00-0135	EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,079.05		1,980.03
33 42 11 00-0136	EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,987.07		2,250.03
33 42 11 00-0137	EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,890.10		2,520.04
33 42 11 00-0138	EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,101.34		3,188.07
33 42 11 00-0139	EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,282.47		3,825.68
33 42 11 00-0140	EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,723.53		5,100.90
33 42 11 00-0141	EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,104.22		6,376.13
33 42 11 00-0142	EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	20,284.85		6,877.11
33 42 11 00-0143	EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,468.86		7,378.09
33 42 11 00-0144	EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	28,517.24		7,879.07
33 42 11 00-0145	EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	26,878.88		8,380.05
33 42 11 00-0146 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33				
42 11 00-0093)				
33 42 11 00-0147	EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	310.75		119.04
33 42 11 00-0148	EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	434.16		170.05
33 42 11 00-0149	EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	564.63		226.73
33 42 11 00-0150	EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	695.10		283.41
33 42 11 00-0151	EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	850.49		352.20
33 42 11 00-0152	EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,080.76		440.62
33 42 11 00-0153	EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,351.31		561.76
33 42 11 00-0154	EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,574.96		655.65
33 42 11 00-0155	EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,781.62		748.75
33 42 11 00-0156	EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,178.19		934.93
33 42 11 00-0157	EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,900.55		1,260.02
33 42 11 00-0158	EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,243.35		1,395.02
33 42 11 00-0159	EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,586.14		1,530.02
33 42 11 00-0160	EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,133.54		1,755.02
33 42 11 00-0161	EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,675.99		1,980.03
33 42 11 00-0162	EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,478.40		2,250.03
33 42 11 00-0163	EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,275.84		2,520.04
33 42 11 00-0164	EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,120.46		3,150.05
33 42 11 00-0165	EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	10,087.04		3,825.68
33 42 11 00-0166	EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	13,237.25		5,100.90
33 42 11 00-0167	EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,327.09		6,376.13
33 42 11 00-0168	EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,116.45		6,877.11
33 42 11 00-0169	EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	19,909.17		8,380.05
33 42 11 00-0170	EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	21,706.08		7,879.07
33 42 11 00-0171	EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	23,749.28		8,380.05
33 42 11 00-0172	400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0092)			
33 42 11 00-0173	400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0172)			
Note: AWWA C301				

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0174 LF 30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints <i>For >1,000, Deduct</i>	167.82 -8.39	35.31
33 42 11 00-0175 LF 36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints <i>For >1,000, Deduct</i>	203.33 -10.17	40.13
33 42 11 00-0176 LF 42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints <i>For >1,000, Deduct</i>	236.36 -11.82	44.14
33 42 11 00-0177 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints <i>(33 42 11 00-0172)</i> Note: AWWA C301		
33 42 11 00-0178 LF 48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints <i>For >1,000, Deduct</i>	315.20 -15.76	49.12
33 42 11 00-0179 LF 54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints <i>For >1,000, Deduct</i>	378.57 -18.93	63.00
33 42 11 00-0180 LF 60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints <i>For >1,000, Deduct</i>	436.58 -21.83	73.09
33 42 11 00-0181 LF 66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints <i>For >1,000, Deduct</i>	490.97 -24.55	81.01
33 42 11 00-0182 LF 72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints <i>For >1,000, Deduct</i>	591.59 -29.58	88.20
33 42 11 00-0183 Welded Joints For Prestressed Concrete Cylinder Pipe <i>(33 42 11 00-0172)</i> Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0184 EA 30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,215.29	
33 42 11 00-0185 EA 36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,305.32	
33 42 11 00-0186 EA 42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,350.33	
33 42 11 00-0187 EA 48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,530.37	
33 42 11 00-0188 EA 54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,575.38	
33 42 11 00-0189 EA 60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,665.40	
33 42 11 00-0190 EA 66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,710.41	
33 42 11 00-0191 EA 72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,755.42	
33 42 11 00-0192 EA 30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,250.54	
33 42 11 00-0193 EA 36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,250.54	
33 42 11 00-0194 EA 42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,565.62	
33 42 11 00-0195 EA 48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,565.62	
33 42 11 00-0196 EA 54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,745.66	
33 42 11 00-0197 EA 60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,745.66	
33 42 11 00-0198 EA 66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,970.72	
33 42 11 00-0199 EA 72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,970.72	
33 42 11 00-0200 Quick Test Joints <i>(33 42 11 00-0172)</i>		
33 42 11 00-0201 EA 30" Quick Test Joint.....	355.29	
33 42 11 00-0202 EA 36" Quick Test Joint.....	359.30	
33 42 11 00-0203 EA 42" Quick Test Joint.....	363.31	
33 42 11 00-0204 EA 48" Quick Test Joint.....	371.33	
33 42 11 00-0205 EA 54" Quick Test Joint.....	390.43	
33 42 11 00-0206 EA 60" Quick Test Joint.....	406.11	
33 42 11 00-0207 EA 66" Quick Test Joint.....	428.47	
33 42 11 00-0208 EA 72" Quick Test Joint.....	450.81	
33 42 11 00-0209 Harnessed Joints <i>(33 42 11 00-0172)</i>		
33 42 11 00-0210 Harness Clamp Restrained Joints <i>(33 42 11 00-0209)</i>		
33 42 11 00-0211 EA 30" Harness Clamp Restrained Joint.....	2,141.30	
33 42 11 00-0212 EA 36" Harness Clamp Restrained Joint.....	2,225.20	
33 42 11 00-0213 EA 42" Harness Clamp Restrained Joint.....	2,309.10	
33 42 11 00-0214 EA 48" Harness Clamp Restrained Joint.....	2,393.01	
33 42 11 00-0215 EA 54" Harness Clamp Restrained Joint.....	2,486.66	
33 42 11 00-0216 EA 60" Harness Clamp Restrained Joint.....	2,615.49	
33 42 11 00-0217 EA 66" Harness Clamp Restrained Joint.....	2,704.39	
33 42 11 00-0218 EA 72" Harness Clamp Restrained Joint.....	2,897.12	
33 42 11 00-0219 Snap Ring Restrained Joints <i>(33 42 11 00-0209)</i>		
33 42 11 00-0220 EA 30" Snap Ring Restrained Joint.....	383.75	
33 42 11 00-0221 EA 36" Snap Ring Restrained Joint.....	435.70	
33 42 11 00-0222 EA 42" Snap Ring Restrained Joint.....	575.52	
33 42 11 00-0223 EA 48" Snap Ring Restrained Joint.....	651.44	
33 42 11 00-0224 EA 54" Snap Ring Restrained Joint.....	737.10	
33 42 11 00-0225 EA 60" Snap Ring Restrained Joint.....	833.98	
33 42 11 00-0226 EA 66" Snap Ring Restrained Joint.....	922.87	
33 42 11 00-0227 EA 72" Snap Ring Restrained Joint.....	1,027.73	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 11 00-0228	Pipe Repairs (33 42 11 00-0172)	Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.			
33 42 11 00-0229	Lined Cylinder Pipe Repair (33 42 11 00-0228)				
33 42 11 00-0230	EA 30" Lined Cylinder Pipe Repair	5,169.66			
33 42 11 00-0231	EA 36" Lined Cylinder Pipe Repair	6,410.90			
33 42 11 00-0232	EA 42" Lined Cylinder Pipe Repair	6,565.27			
33 42 11 00-0233	Embedded Cylinder Pipe Repair (33 42 11 00-0228)	Note: Field welded concrete enclosure assembly with concrete pipe.			
33 42 11 00-0234	EA 48" Embedded Cylinder Pipe Repair	9,584.25			
33 42 11 00-0235	EA 54" Embedded Cylinder Pipe Repair	11,103.10			
33 42 11 00-0236	EA 60" Embedded Cylinder Pipe Repair	12,635.46			
33 42 11 00-0237	EA 66" Embedded Cylinder Pipe Repair	14,272.35			
33 42 11 00-0238	EA 72" Embedded Cylinder Pipe Repair	17,073.91			
33 42 11 00-0239	High Density Polyethylene (HDPE) Piping (33 42 11)				
33 42 11 00-0240	Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0239)	Note: Excludes couplings and gaskets.			
33 42 11 00-0241	Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0240)				
33 42 11 00-0242	LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	11.59		5.21	
	For <100, Add	2.08			
	For >1,000, Deduct	-0.58			
33 42 11 00-0243	LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	15.09		6.06	
	For <100, Add	2.42			
	For >1,000, Deduct	-0.75			
33 42 11 00-0244	LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	18.54		7.04	
	For <100, Add	2.82			
	For >1,000, Deduct	-0.93			
33 42 11 00-0245	LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	21.01		7.29	
	For <100, Add	2.92			
	For >1,000, Deduct	-1.05			
33 42 11 00-0246	LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	22.08		7.55	
	For <100, Add	3.02			
	For >1,000, Deduct	-1.10			
33 42 11 00-0247	LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	25.00		7.81	
	For <100, Add	3.13			
	For >1,000, Deduct	-1.25			
33 42 11 00-0248	LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	30.15		8.10	
	For <100, Add	3.24			
	For >1,000, Deduct	-1.51			
33 42 11 00-0249	LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	41.20		9.49	
	For <100, Add	3.80			
	For >1,000, Deduct	-2.06			
33 42 11 00-0250	LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	58.38		12.78	
	For <100, Add	5.11			
	For >1,000, Deduct	-2.92			
33 42 11 00-0251	LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	76.68		16.15	
	For <100, Add	6.46			
	For >1,000, Deduct	-3.83			
33 42 11 00-0252	Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0240)				
33 42 11 00-0253	LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	21.95		7.55	
	For <100, Add	3.02			
	For >1,000, Deduct	-1.10			
33 42 11 00-0254	LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	25.49		7.81	
	For <100, Add	3.13			
	For >1,000, Deduct	-1.27			
33 42 11 00-0255	LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	30.89		8.10	
	For <100, Add	3.24			
	For >1,000, Deduct	-1.54			
33 42 11 00-0256	LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	42.37		9.49	
	For <100, Add	3.80			
	For >1,000, Deduct	-2.12			
33 42 11 00-0257	LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	61.58		12.78	
	For <100, Add	5.11			
	For >1,000, Deduct	-3.08			
33 42 11 00-0258	LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	79.06		16.15	
	For <100, Add	6.46			
	For >1,000, Deduct	-3.95			
33 42 11 00-0259	LF 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	102.73		17.62	
	For <100, Add	7.05			
	For >1,000, Deduct	-5.14			

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0260 LF 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	112.09 7.95 -5.60	19.88
33 42 11 00-0261 Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0239) Note: Excludes couplings and gaskets.		
33 42 11 00-0262 Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0261)		
33 42 11 00-0263 LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	11.14 2.08 -0.56	5.21
33 42 11 00-0264 LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	13.72 2.42 -0.69	6.06
33 42 11 00-0265 LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	16.92 2.82 -0.85	7.04
33 42 11 00-0266 LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	19.82 2.92 -0.99	7.29
33 42 11 00-0267 LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	21.62 3.02 -1.08	7.55
33 42 11 00-0268 LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	25.14 3.13 -1.26	7.81
33 42 11 00-0269 LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	31.07 3.24 -1.55	8.10
33 42 11 00-0270 LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	42.20 3.80 -2.11	9.49
33 42 11 00-0271 Perforated, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0239) Note: Excludes couplings and gaskets.		
33 42 11 00-0272 Coupled, Perforated High Density Polyethylene (HDPE) Piping (33 42 11 00-0271)		
33 42 11 00-0273 LF 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	12.20 2.08 -0.61	5.21
33 42 11 00-0274 LF 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	15.12 2.42 -0.76	6.06
33 42 11 00-0275 LF 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	18.54 2.82 -0.93	7.04
33 42 11 00-0276 LF 10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	21.03 2.92 -1.05	7.29
33 42 11 00-0277 LF 12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	22.08 3.02 -1.10	7.55
33 42 11 00-0278 LF 15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	25.02 3.13 -1.25	7.81
33 42 11 00-0279 LF 18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	30.17 3.24 -1.51	8.10
33 42 11 00-0280 LF 24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	41.20 3.80 -2.06	9.49
33 42 11 00-0281 LF 30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	58.58 5.11 -2.93	12.78
33 42 11 00-0282 LF 36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	76.68 6.46 -3.83	16.15
33 42 11 00-0283 Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0271)		
33 42 11 00-0284 LF 12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	21.97 3.02 -1.10	7.55
33 42 11 00-0285 LF 15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	25.51 3.13 -1.28	7.81



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0286	LF	18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	30.91 3.24 -1.55	8.10
33 42 11 00-0287	LF	24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	42.37 3.80 -2.12	9.49
33 42 11 00-0288	LF	30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	61.58 5.11 -3.08	12.78
33 42 11 00-0289	LF	36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	79.06 6.46 -3.95	16.15
33 42 11 00-0290	LF	42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	102.73 7.05 -5.14	17.62
33 42 11 00-0291	LF	48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	112.09 7.95 -5.60	19.88
33 42 11 00-0292		Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0271)		
33 42 11 00-0293	LF	4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	11.53 2.08 -0.58	5.21
33 42 11 00-0294	LF	6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	13.72 2.42 -0.69	6.06
33 42 11 00-0295	LF	8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	16.84 2.82 -0.84	7.04
33 42 11 00-0296	LF	10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	19.82 2.92 -0.99	7.29
33 42 11 00-0297	LF	12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	21.62 3.02 -1.08	7.55
33 42 11 00-0298	LF	15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	25.14 3.13 -1.26	7.81
33 42 11 00-0299	LF	18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	31.07 3.24 -1.55	8.10
33 42 11 00-0300	LF	24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add For >1,000, Deduct	42.20 3.80 -2.11	9.49
33 42 11 00-0301		Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0239) Note: Excludes couplings and gaskets.		
33 42 11 00-0302		Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0301)		
33 42 11 00-0303	EA	4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	48.34	18.54
33 42 11 00-0304	EA	6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	60.56	21.63
33 42 11 00-0305	EA	8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	96.87	26.28
33 42 11 00-0306	EA	10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	146.96	32.45
33 42 11 00-0307	EA	12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	230.59	38.64
33 42 11 00-0308	EA	15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	325.01	50.49
33 42 11 00-0309	EA	18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	466.93	67.99
33 42 11 00-0310	EA	24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	597.39	77.62
33 42 11 00-0311	EA	30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,039.07	89.63
33 42 11 00-0312	EA	36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,333.28	103.54
33 42 11 00-0313	EA	42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	2,214.49	123.63
33 42 11 00-0314	EA	48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	2,778.68	146.81
33 42 11 00-0315		Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0301)		
33 42 11 00-0316	EA	4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	69.93	18.54
33 42 11 00-0317	EA	6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	84.26	21.63
33 42 11 00-0318	EA	8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	111.83	26.28
33 42 11 00-0319	EA	10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	163.46	32.45
33 42 11 00-0320	EA	12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	283.65	38.64
33 42 11 00-0321	EA	15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	308.73	50.49
33 42 11 00-0322	EA	18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	435.26	67.99

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0323	22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0301)		
33 42 11 00-0324	EA 4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	29.51	12.36
33 42 11 00-0325	EA 6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	36.33	14.43
33 42 11 00-0326	EA 8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	52.61	17.51
33 42 11 00-0327	EA 10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	66.17	21.63
33 42 11 00-0328	EA 12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	95.36	25.75
33 42 11 00-0329	EA 15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	149.79	32.97
33 42 11 00-0330	EA 18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	198.70	45.33
33 42 11 00-0331	EA 24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	373.22	51.51
33 42 11 00-0332	EA 30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	517.26	59.75
33 42 11 00-0333	EA 36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	606.04	69.03
33 42 11 00-0334	EA 42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	773.85	82.42
33 42 11 00-0335	EA 48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,044.63	97.88
33 42 11 00-0336	45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0301)		
33 42 11 00-0337	EA 4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	31.87	12.36
33 42 11 00-0338	EA 6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	41.26	14.43
33 42 11 00-0339	EA 8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	55.12	17.51
33 42 11 00-0340	EA 10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	86.61	21.63
33 42 11 00-0341	EA 12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	95.36	25.75
33 42 11 00-0342	EA 15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	149.38	32.97
33 42 11 00-0343	EA 18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	231.67	45.33
33 42 11 00-0344	EA 24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	398.69	51.51
33 42 11 00-0345	EA 30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	518.47	59.75
33 42 11 00-0346	EA 36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	660.94	69.03
33 42 11 00-0347	EA 42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	985.73	82.42
33 42 11 00-0348	EA 48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,234.53	97.88
33 42 11 00-0349	Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0239)		
	Note: Excludes couplings and gaskets.		
33 42 11 00-0350	Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0349)		
33 42 11 00-0351	EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	33.80	18.54
33 42 11 00-0352	EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	40.15	21.63
33 42 11 00-0353	EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	64.10	26.28
33 42 11 00-0354	EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	82.13	32.45
33 42 11 00-0355	EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	120.81	38.64
33 42 11 00-0356	EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	258.32	50.49
33 42 11 00-0357	EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	309.81	67.99
33 42 11 00-0358	EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	580.00	77.27
33 42 11 00-0359	Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0349)		
33 42 11 00-0360	EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	34.69	18.54
33 42 11 00-0361	EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	43.07	21.63
33 42 11 00-0362	EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	94.67	26.28
33 42 11 00-0363	45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0349)		
33 42 11 00-0364	EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	22.83	12.36
33 42 11 00-0365	90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0349)		
33 42 11 00-0366	EA 4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	23.77	12.36
33 42 11 00-0367	EA 6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	30.55	14.43
33 42 11 00-0368	EA 8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	44.92	17.51
33 42 11 00-0369	EA 10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	59.02	21.63
33 42 11 00-0370	Couplings And End Caps, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0239)		
	Note: For single and double wall high density polyethylene (HDPE) piping.		
33 42 11 00-0371	Couplings, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0370)		
33 42 11 00-0372	EA 4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	1.41	
33 42 11 00-0373	EA 6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	2.53	
33 42 11 00-0374	EA 8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	3.89	
33 42 11 00-0375	EA 10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	4.79	
33 42 11 00-0376	EA 12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.15	
33 42 11 00-0377	EA 15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	7.33	
33 42 11 00-0378	EA 18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	10.84	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0379	EA	24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	17.26	
33 42 11 00-0380	EA	30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	26.50	
33 42 11 00-0381	EA	36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	34.68	
33 42 11 00-0382	EA	42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	54.52	
33 42 11 00-0383	EA	48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	73.74	
33 42 11 00-0384 Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE)				
Pipe (33 42 11 00-0379)				
33 42 11 00-0385	EA	4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	74.66	
33 42 11 00-0386	EA	6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	78.17	
33 42 11 00-0387	EA	8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	81.85	
33 42 11 00-0388	EA	10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	85.70	
33 42 11 00-0389	EA	12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	101.65	
33 42 11 00-0390	EA	15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	104.95	
33 42 11 00-0391	EA	18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	109.46	
33 42 11 00-0392	EA	24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	124.68	
33 42 11 00-0393	EA	30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	199.87	
33 42 11 00-0394	EA	36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	218.92	
33 42 11 00-0395	EA	42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	238.53	
33 42 11 00-0396	EA	48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	289.70	
33 42 11 00-0397 End Caps, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0379)				
33 42 11 00-0398	EA	6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	22.05	
33 42 11 00-0399	EA	8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	25.50	
33 42 11 00-0400	EA	10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	39.02	
33 42 11 00-0401	EA	12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	63.67	
33 42 11 00-0402	EA	15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	73.66	
33 42 11 00-0403	EA	18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	98.26	
33 42 11 00-0404	EA	24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe.....	102.38	
33 42 11 00-0405 Vitrifed Clay Piping (33 42 11)				
33 42 11 00-0406 Extra Strength Vitrifed Clay Piping (33 42 11 00-0405)				
33 42 11 00-0407 Plain Joint, Extra Strength, Vitrifed Clay Piping (33 42 11 00-0406)				
Note: ASTM C700.				
33 42 11 00-0408	LF	4" Plain Joint, Extra Strength, Vitrifed Clay Pipe.....	16.66	
		For 3' Lengths, Add	1.52	
		For 2' Lengths, Add	2.02	
		For Standard Strength, Deduct	-0.51	
		For >1,000, Deduct	-0.83	
33 42 11 00-0409	LF	6" Plain Joint, Extra Strength, Vitrifed Clay Pipe.....	27.64	
		For 3' Lengths, Add	2.35	
		For 2' Lengths, Add	3.14	
		For Standard Strength, Deduct	-0.78	
		For >1,000, Deduct	-1.38	
33 42 11 00-0410	LF	8" Plain Joint, Extra Strength, Vitrifed Clay Pipe.....	33.19	
		For 3' Lengths, Add	3.36	
		For 2' Lengths, Add	4.48	
		For Standard Strength, Deduct	-1.12	
		For >1,000, Deduct	-1.66	
33 42 11 00-0411	LF	10" Plain Joint, Extra Strength, Vitrifed Clay Pipe.....	40.15	
		For 3' Lengths, Add	5.15	
		For 2' Lengths, Add	6.86	
		For Standard Strength, Deduct	-1.72	
		For >1,000, Deduct	-2.01	
33 42 11 00-0412	LF	12" Plain Joint, Extra Strength, Vitrifed Clay Pipe.....	49.30	
		For 3' Lengths, Add	7.27	
		For 2' Lengths, Add	9.69	
		For Standard Strength, Deduct	-2.42	
		For >1,000, Deduct	-2.47	
33 42 11 00-0413	LF	15" Plain Joint, Extra Strength, Vitrifed Clay Pipe.....	73.33	
		For 3' Lengths, Add	13.63	
		For 2' Lengths, Add	18.17	
		For Standard Strength, Deduct	-4.54	
		For >1,000, Deduct	-3.67	
33 42 11 00-0414	LF	18" Plain Joint, Extra Strength, Vitrifed Clay Pipe.....	99.91	
		For 3' Lengths, Add	19.53	
		For 2' Lengths, Add	26.04	
		For Standard Strength, Deduct	-6.51	
		For >1,000, Deduct	-5.00	
33 42 11 00-0415	LF	21" Plain Joint, Extra Strength, Vitrifed Clay Pipe.....	148.18	
		For 3' Lengths, Add	31.29	
		For 2' Lengths, Add	41.72	
		For Standard Strength, Deduct	-10.43	
		For >1,000, Deduct	-7.41	
33 42 11 00-0416	LF	24" Plain Joint, Extra Strength, Vitrifed Clay Pipe.....	189.55	
		For 3' Lengths, Add	40.88	
		For 2' Lengths, Add	54.50	
		For Standard Strength, Deduct	-13.63	
		For >1,000, Deduct	-9.48	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0417 LF 30" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	234.61	
For 3' Lengths, Add	50.97	
For 2' Lengths, Add	67.96	
For Standard Strength, Deduct	-16.99	
For >1,000, Deduct	-11.73	
33 42 11 00-0418 LF 36" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	283.80	
For 3' Lengths, Add	61.57	
For 2' Lengths, Add	82.09	
For Standard Strength, Deduct	-20.52	
For >1,000, Deduct	-14.19	
33 42 11 00-0419 Compression Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0406)		
Note: ASTM C425.		
33 42 11 00-0420 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	23.54	
For 3' Lengths, Add	1.79	
For 2' Lengths, Add	2.38	
For Standard Strength, Deduct	-0.60	
For >1,000, Deduct	-1.18	
33 42 11 00-0421 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	29.52	
For 3' Lengths, Add	2.92	
For 2' Lengths, Add	3.89	
For Standard Strength, Deduct	-0.97	
For >1,000, Deduct	-1.48	
33 42 11 00-0422 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	35.72	
For 3' Lengths, Add	4.12	
For 2' Lengths, Add	5.49	
For Standard Strength, Deduct	-1.37	
For >1,000, Deduct	-1.79	
33 42 11 00-0423 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	45.53	
For 3' Lengths, Add	6.76	
For 2' Lengths, Add	9.02	
For Standard Strength, Deduct	-2.25	
For >1,000, Deduct	-2.28	
33 42 11 00-0424 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	54.68	
For 3' Lengths, Add	8.88	
For 2' Lengths, Add	11.84	
For Standard Strength, Deduct	-2.96	
For >1,000, Deduct	-2.73	
33 42 11 00-0425 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	81.91	
For 3' Lengths, Add	16.20	
For 2' Lengths, Add	21.60	
For Standard Strength, Deduct	-5.40	
For >1,000, Deduct	-4.10	
33 42 11 00-0426 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	113.87	
For 3' Lengths, Add	23.72	
For 2' Lengths, Add	31.62	
For Standard Strength, Deduct	-7.91	
For >1,000, Deduct	-5.69	
33 42 11 00-0427 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	164.16	
For 3' Lengths, Add	36.08	
For 2' Lengths, Add	48.11	
For Standard Strength, Deduct	-12.03	
For >1,000, Deduct	-8.21	
33 42 11 00-0428 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	214.78	
For 3' Lengths, Add	48.44	
For 2' Lengths, Add	64.59	
For Standard Strength, Deduct	-16.15	
For >1,000, Deduct	-10.74	
33 42 11 00-0429 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	345.63	
For 3' Lengths, Add	84.27	
For 2' Lengths, Add	112.36	
For Standard Strength, Deduct	-28.09	
For >1,000, Deduct	-17.28	
33 42 11 00-0430 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	492.38	
For 3' Lengths, Add	124.14	
For 2' Lengths, Add	165.52	
For Standard Strength, Deduct	-41.38	
For >1,000, Deduct	-24.62	
33 42 11 00-0431 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0405)		
33 42 11 00-0432 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0431)		
33 42 11 00-0433 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0432)		
33 42 11 00-0434 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	70.85	
33 42 11 00-0435 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	96.11	
33 42 11 00-0436 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	138.26	
33 42 11 00-0437 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	191.35	
33 42 11 00-0438 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	253.65	
33 42 11 00-0439 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	611.97	
33 42 11 00-0440 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	864.01	
33 42 11 00-0441 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,350.09	
33 42 11 00-0442 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,557.70	
33 42 11 00-0443 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,807.97	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0444 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,717.29	
33 42 11 00-0445 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0432)		
33 42 11 00-0446 EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	79.90	
33 42 11 00-0447 EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	114.36	
33 42 11 00-0448 EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	155.70	
33 42 11 00-0449 EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	210.07	
33 42 11 00-0450 EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	267.37	
33 42 11 00-0451 EA 15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	686.08	
33 42 11 00-0452 EA 18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	999.45	
33 42 11 00-0453 EA 21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,025.62	
33 42 11 00-0454 EA 24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,995.65	
33 42 11 00-0455 EA 30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,220.91	
33 42 11 00-0456 EA 36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	3,303.85	
33 42 11 00-0457 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0431)		
33 42 11 00-0458 Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0457)		
33 42 11 00-0459 EA 4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	82.47	
33 42 11 00-0460 EA 6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	110.09	
33 42 11 00-0461 EA 8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	154.63	
33 42 11 00-0462 EA 10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	209.16	
33 42 11 00-0463 EA 12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	273.71	
33 42 11 00-0464 EA 15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	634.29	
33 42 11 00-0465 EA 18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	891.86	
33 42 11 00-0466 EA 21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,385.21	
33 42 11 00-0467 EA 24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,600.33	
33 42 11 00-0468 EA 30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,861.14	
33 42 11 00-0469 EA 36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,776.39	
33 42 11 00-0470 Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0457)		
33 42 11 00-0471 EA 4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	93.84	
33 42 11 00-0472 EA 6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	131.16	
33 42 11 00-0473 EA 8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	175.34	
33 42 11 00-0474 EA 10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	231.44	
33 42 11 00-0475 EA 12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	291.45	
33 42 11 00-0476 EA 15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	712.87	
33 42 11 00-0477 EA 18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	1,032.85	
33 42 11 00-0478 EA 21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,010.70	
33 42 11 00-0479 EA 24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,046.82	
33 42 11 00-0480 EA 30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,284.71	
33 42 11 00-0481 EA 36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	3,374.77	
33 42 11 00-0482 Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0431)		
33 42 11 00-0483 Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0482)		
33 42 11 00-0484 EA 4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	90.07	
33 42 11 00-0485 EA 6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	118.04	
33 42 11 00-0486 EA 8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	161.44	
33 42 11 00-0487 EA 10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	215.10	
33 42 11 00-0488 EA 12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	272.83	
33 42 11 00-0489 EA 15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	639.08	
33 42 11 00-0490 EA 18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	895.57	
33 42 11 00-0491 EA 21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,295.84	
33 42 11 00-0492 EA 24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,805.55	
33 42 11 00-0493 EA 30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,907.98	
33 42 11 00-0494 EA 36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,750.44	
33 42 11 00-0495 Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0482)		
33 42 11 00-0496 EA 4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	110.15	
33 42 11 00-0497 EA 6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	151.94	
33 42 11 00-0498 EA 8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	201.02	
33 42 11 00-0499 EA 10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	261.94	
33 42 11 00-0500 EA 12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	327.73	
33 42 11 00-0501 EA 15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	777.50	
33 42 11 00-0502 EA 18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,122.46	
33 42 11 00-0503 EA 21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,669.16	
33 42 11 00-0504 EA 24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,213.10	
33 42 11 00-0505 EA 30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,558.30	
33 42 11 00-0506 EA 36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee.....	3,638.91	
33 42 11 00-0507 Vitrified Clay Couplings (33 42 11 00-0405)		
33 42 11 00-0508 Vitrified Clay To Cast Iron Or Plastic Pipe Couplings (33 42 11 00-0507)		
Note: Stainless steel tightening band at each end (Fernco #1002)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0509	EA	4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	30.55	
33 42 11 00-0510	EA	4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	30.23	
33 42 11 00-0511	EA	5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	42.22	
33 42 11 00-0512	EA	5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	39.70	
33 42 11 00-0513	EA	6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	51.93	
33 42 11 00-0514	EA	6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	54.12	
33 42 11 00-0515	EA	6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	49.27	
33 42 11 00-0516	EA	8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	72.14	
33 42 11 00-0517	EA	8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	66.60	
33 42 11 00-0518	EA	10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	94.88	
33 42 11 00-0519	EA	10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	86.32	
33 42 11 00-0520	EA	12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	118.27	
33 42 11 00-0521	EA	12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	98.61	
33 42 11 00-0522	EA	15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	201.26	
33 42 11 00-0523	EA	15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	154.41	
33 42 11 00-0524 Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings (33 42 11 00-0507)				
Note: Stainless steel tightening band at each end. (NDS Non-shear)				
33 42 11 00-0525	EA	4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	45.05	
33 42 11 00-0526	EA	6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	59.31	
33 42 11 00-0527	EA	6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	62.42	
33 42 11 00-0528	EA	8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	65.45	
33 42 11 00-0529	EA	10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	79.92	
33 42 11 00-0530	EA	12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	92.19	
33 42 11 00-0531 Vitrified Clay To Plastic Pipe Non-Shear Couplings (33 42 11 00-0507)				
Note: Stainless steel tightening band at each end. (NDS Non-shear)				
33 42 11 00-0532	EA	4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	46.09	
33 42 11 00-0533	EA	6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	60.35	
33 42 11 00-0534	EA	6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling	55.71	
33 42 11 00-0535	EA	8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling	71.68	
33 42 11 00-0536	EA	10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling	101.76	
33 42 11 00-0537	EA	12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling	114.62	
33 42 11 00-0538 Corrugated Metal Piping (33 42 11)				
33 42 11 00-0539 Galvanized Corrugated Steel Piping (33 42 11 00-0538)				
33 42 11 00-0540 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0539)				
33 42 11 00-0541 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0540)				
33 42 11 00-0542	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	26.43	7.94
		For Bituminous Coated Pipe, Add	2.41	
		For Bituminous Coated And 25% Paved, Add	4.92	
		For Smooth-Flo, Add	8.79	
33 42 11 00-0543	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	29.58	8.32
		For Bituminous Coated Pipe, Add	3.03	
		For Bituminous Coated And 25% Paved, Add	6.19	
		For Smooth-Flo, Add	11.06	
33 42 11 00-0544	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	32.84	9.07
		For Bituminous Coated Pipe, Add	3.67	
		For Bituminous Coated And 25% Paved, Add	7.50	
		For Smooth-Flo, Add	13.39	
33 42 11 00-0545	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	37.22	9.82
		For Bituminous Coated Pipe, Add	4.39	
		For Bituminous Coated And 25% Paved, Add	8.97	
		For Smooth-Flo, Add	16.02	
33 42 11 00-0546	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	41.13	10.58
		For Bituminous Coated Pipe, Add	4.94	
		For Bituminous Coated And 25% Paved, Add	10.10	
		For Smooth-Flo, Add	18.03	
33 42 11 00-0547	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	54.37	13.60
		For Bituminous Coated Pipe, Add	6.40	
		For Bituminous Coated And 25% Paved, Add	13.10	
		For Smooth-Flo, Add	23.39	
33 42 11 00-0548	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	70.83	17.65
		For Bituminous Coated Pipe, Add	8.08	
		For Bituminous Coated And 25% Paved, Add	16.52	
		For Smooth-Flo, Add	29.51	
33 42 11 00-0549	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	80.35	20.86
		For Bituminous Coated Pipe, Add	9.56	
		For Bituminous Coated And 25% Paved, Add	19.55	
		For Smooth-Flo, Add	34.91	
33 42 11 00-0550	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	90.33	24.08
		For Bituminous Coated Pipe, Add	10.71	
		For Bituminous Coated And 25% Paved, Add	21.90	
		For Smooth-Flo, Add	39.11	
33 42 11 00-0551 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0540)				



Utilities			33	33
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST
33 42 11 00-0552	LF	12"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	28.57	7.94
			For Bituminous Coated Pipe, Add	2.44	
			For Bituminous Coated And 25% Paved, Add	5.65	
			For Smooth-Flo, Add	11.43	
33 42 11 00-0553	LF	15"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	32.22	8.32
			For Bituminous Coated Pipe, Add	3.06	
			For Bituminous Coated And 25% Paved, Add	7.09	
			For Smooth-Flo, Add	14.33	
33 42 11 00-0554	LF	18"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	36.04	9.07
			For Bituminous Coated Pipe, Add	3.71	
			For Bituminous Coated And 25% Paved, Add	8.59	
			For Smooth-Flo, Add	17.36	
33 42 11 00-0555	LF	21"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	40.92	9.82
			For Bituminous Coated Pipe, Add	4.41	
			For Bituminous Coated And 25% Paved, Add	10.21	
			For Smooth-Flo, Add	20.64	
33 42 11 00-0556	LF	24"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	45.42	10.58
			For Bituminous Coated Pipe, Add	4.99	
			For Bituminous Coated And 25% Paved, Add	11.55	
			For Smooth-Flo, Add	23.36	
33 42 11 00-0557	LF	30"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	59.61	13.60
			For Bituminous Coated Pipe, Add	6.40	
			For Bituminous Coated And 25% Paved, Add	14.84	
			For Smooth-Flo, Add	29.99	
33 42 11 00-0558	LF	36"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	77.19	17.65
			For Bituminous Coated Pipe, Add	8.03	
			For Bituminous Coated And 25% Paved, Add	18.60	
			For Smooth-Flo, Add	37.59	
33 42 11 00-0559	LF	42"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	87.64	20.86
			For Bituminous Coated Pipe, Add	9.45	
			For Bituminous Coated And 25% Paved, Add	21.89	
			For Smooth-Flo, Add	44.25	
33 42 11 00-0560	LF	48"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	98.66	24.08
			For Bituminous Coated Pipe, Add	10.62	
			For Bituminous Coated And 25% Paved, Add	24.60	
			For Smooth-Flo, Add	49.73	
33 42 11 00-0561	LF	54"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	117.53	27.28
			For Bituminous Coated Pipe, Add	13.06	
			For Bituminous Coated And 25% Paved, Add	30.26	
			For Smooth-Flo, Add	61.17	
33 42 11 00-0562 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33					
			42 11 00-0540)		
33 42 11 00-0563	LF	18"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	42.65	9.07
			For Bituminous Coated Pipe, Add	4.24	
			For Bituminous Coated And 25% Paved, Add	7.66	
			For Smooth-Flo, Add	14.73	
33 42 11 00-0564	LF	21"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	48.61	9.82
			For Bituminous Coated Pipe, Add	5.02	
			For Bituminous Coated And 25% Paved, Add	9.06	
			For Smooth-Flo, Add	17.41	
33 42 11 00-0565	LF	24"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	54.18	9.82
			For Bituminous Coated Pipe, Add	5.69	
			For Bituminous Coated And 25% Paved, Add	10.27	
			For Smooth-Flo, Add	19.74	
33 42 11 00-0566	LF	30"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	70.45	13.60
			For Bituminous Coated Pipe, Add	7.23	
			For Bituminous Coated And 25% Paved, Add	13.06	
			For Smooth-Flo, Add	25.10	
33 42 11 00-0567	LF	36"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	90.05	17.65
			For Bituminous Coated Pipe, Add	8.94	
			For Bituminous Coated And 25% Paved, Add	16.15	
			For Smooth-Flo, Add	31.03	
33 42 11 00-0568	LF	42"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	102.50	20.86
			For Bituminous Coated Pipe, Add	10.48	
			For Bituminous Coated And 25% Paved, Add	18.92	
			For Smooth-Flo, Add	36.37	
33 42 11 00-0569	LF	48"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	115.69	24.08
			For Bituminous Coated Pipe, Add	11.83	
			For Bituminous Coated And 25% Paved, Add	21.37	
			For Smooth-Flo, Add	41.06	
33 42 11 00-0570	LF	54"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	136.32	27.28
			For Bituminous Coated Pipe, Add	14.19	
			For Bituminous Coated And 25% Paved, Add	25.62	
			For Smooth-Flo, Add	49.24	
33 42 11 00-0571	LF	60"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	149.01	28.89
			For Bituminous Coated Pipe, Add	15.54	
			For Bituminous Coated And 25% Paved, Add	28.06	
			For Smooth-Flo, Add	53.92	
33 42 11 00-0572	LF	66"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	180.40	35.31
			For Bituminous Coated Pipe, Add	18.91	
			For Bituminous Coated And 25% Paved, Add	34.16	
			For Smooth-Flo, Add	65.64	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-0573	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾				
	^{42 11 00-0540}				
33 42 11 00-0574	LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	102.08		17.65	
	For Bituminous Coated Pipe, Add	11.37			
	For Bituminous Coated And 25% Paved, Add	19.00			
	For Smooth-Flo, Add	27.11			
33 42 11 00-0575	LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	116.58		20.86	
	For Bituminous Coated Pipe, Add	13.33			
	For Bituminous Coated And 25% Paved, Add	22.26			
	For Smooth-Flo, Add	31.76			
33 42 11 00-0576	LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	131.67		24.08	
	For Bituminous Coated Pipe, Add	15.06			
	For Bituminous Coated And 25% Paved, Add	25.16			
	For Smooth-Flo, Add	35.90			
33 42 11 00-0577	LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	154.22		27.28	
	For Bituminous Coated Pipe, Add	17.84			
	For Bituminous Coated And 25% Paved, Add	29.80			
	For Smooth-Flo, Add	42.52			
33 42 11 00-0578	LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	168.93		28.89	
	For Bituminous Coated Pipe, Add	19.59			
	For Bituminous Coated And 25% Paved, Add	32.73			
	For Smooth-Flo, Add	46.69			
33 42 11 00-0579	LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	202.30		35.31	
	For Bituminous Coated Pipe, Add	23.44			
	For Bituminous Coated And 25% Paved, Add	39.15			
	For Smooth-Flo, Add	55.86			
33 42 11 00-0580	LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	245.11		51.36	
	For Bituminous Coated Pipe, Add	25.16			
	For Bituminous Coated And 25% Paved, Add	42.03			
	For Smooth-Flo, Add	59.98			
33 42 11 00-0581	3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0539)				
33 42 11 00-0582	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0581)				
33 42 11 00-0583	LF 36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	81.86		17.65	
	For Bituminous Coated Pipe, Add	8.88			
	For Bituminous Coated And 25% Paved, Add	20.16			
	For Smooth-Flo, Add	40.15			
33 42 11 00-0584	LF 42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	93.01		20.86	
	For Bituminous Coated Pipe, Add	10.43			
	For Bituminous Coated And 25% Paved, Add	23.68			
	For Smooth-Flo, Add	47.14			
33 42 11 00-0585	LF 48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	104.58		24.08	
	For Bituminous Coated Pipe, Add	11.70			
	For Bituminous Coated And 25% Paved, Add	26.55			
	For Smooth-Flo, Add	52.87			
33 42 11 00-0586	LF 54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	124.32		27.28	
	For Bituminous Coated Pipe, Add	14.29			
	For Bituminous Coated And 25% Paved, Add	32.44			
	For Smooth-Flo, Add	64.59			
33 42 11 00-0587	LF 60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	135.46		28.89	
	For Bituminous Coated Pipe, Add	15.57			
	For Bituminous Coated And 25% Paved, Add	35.34			
	For Smooth-Flo, Add	70.37			
33 42 11 00-0588	LF 66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	169.12		35.31	
	For Bituminous Coated Pipe, Add	20.00			
	For Bituminous Coated And 25% Paved, Add	45.39			
	For Smooth-Flo, Add	90.38			
33 42 11 00-0589	LF 72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	208.71		51.36	
	For Bituminous Coated Pipe, Add	21.31			
	For Bituminous Coated And 25% Paved, Add	48.38			
	For Smooth-Flo, Add	96.34			
33 42 11 00-0590	LF 78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	225.54		56.17	
	For Bituminous Coated Pipe, Add	22.64			
	For Bituminous Coated And 25% Paved, Add	51.39			
	For Smooth-Flo, Add	102.32			
33 42 11 00-0591	LF 84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	240.18		60.18	
	For Bituminous Coated Pipe, Add	23.96			
	For Bituminous Coated And 25% Paved, Add	54.39			
	For Smooth-Flo, Add	108.30			
33 42 11 00-0592	LF 90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	254.84		64.20	
	For Bituminous Coated Pipe, Add	25.29			
	For Bituminous Coated And 25% Paved, Add	57.40			
	For Smooth-Flo, Add	114.30			
33 42 11 00-0593	LF 96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	270.04		68.21	
	For Bituminous Coated Pipe, Add	26.61			
	For Bituminous Coated And 25% Paved, Add	60.40			
	For Smooth-Flo, Add	120.26			
33 42 11 00-0594	LF 102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	287.54		72.22	
	For Bituminous Coated Pipe, Add	27.94			
	For Bituminous Coated And 25% Paved, Add	63.42			
	For Smooth-Flo, Add	126.29			



Utilities			33	33
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0595		14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-) ⁽⁰⁵⁸¹⁾		
33 42 11 00-0596	LF	54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	135.58	27.28
		For Bituminous Coated Pipe, Add	16.54	
		For Bituminous Coated And 25% Paved, Add	32.42	
		For Smooth-Flo, Add	65.51	
33 42 11 00-0597	LF	60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	147.91	28.89
		For Bituminous Coated Pipe, Add	18.06	
		For Bituminous Coated And 25% Paved, Add	35.39	
		For Smooth-Flo, Add	71.51	
33 42 11 00-0598	LF	66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	182.83	35.31
		For Bituminous Coated Pipe, Add	22.74	
		For Bituminous Coated And 25% Paved, Add	44.57	
		For Smooth-Flo, Add	90.04	
33 42 11 00-0599	LF	72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	223.64	51.36
		For Bituminous Coated Pipe, Add	24.30	
		For Bituminous Coated And 25% Paved, Add	47.63	
		For Smooth-Flo, Add	96.23	
33 42 11 00-0600	LF	78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	241.66	56.17
		For Bituminous Coated Pipe, Add	25.86	
		For Bituminous Coated And 25% Paved, Add	50.69	
		For Smooth-Flo, Add	102.41	
33 42 11 00-0601	LF	84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	257.58	60.18
		For Bituminous Coated Pipe, Add	27.44	
		For Bituminous Coated And 25% Paved, Add	53.78	
		For Smooth-Flo, Add	108.66	
33 42 11 00-0602	LF	90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	273.42	64.20
		For Bituminous Coated Pipe, Add	29.00	
		For Bituminous Coated And 25% Paved, Add	56.85	
		For Smooth-Flo, Add	114.86	
33 42 11 00-0603	LF	96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	289.84	68.21
		For Bituminous Coated Pipe, Add	30.57	
		For Bituminous Coated And 25% Paved, Add	59.91	
		For Smooth-Flo, Add	121.04	
33 42 11 00-0604	LF	102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	308.53	72.22
		For Bituminous Coated Pipe, Add	32.14	
		For Bituminous Coated And 25% Paved, Add	62.99	
		For Smooth-Flo, Add	127.27	
33 42 11 00-0605	LF	108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	329.06	80.25
		For Bituminous Coated Pipe, Add	33.71	
		For Bituminous Coated And 25% Paved, Add	66.08	
		For Smooth-Flo, Add	133.50	
33 42 11 00-0606	LF	114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	349.12	88.27
		For Bituminous Coated Pipe, Add	35.25	
		For Bituminous Coated And 25% Paved, Add	69.10	
		For Smooth-Flo, Add	139.61	
33 42 11 00-0607		12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-) ⁽⁰⁵⁸¹⁾		
33 42 11 00-0608	LF	60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	175.55	28.89
		For Bituminous Coated Pipe, Add	23.59	
		For Bituminous Coated And 25% Paved, Add	44.93	
		For Smooth-Flo, Add	73.23	
33 42 11 00-0609	LF	66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	213.43	35.31
		For Bituminous Coated Pipe, Add	28.86	
		For Bituminous Coated And 25% Paved, Add	54.97	
		For Smooth-Flo, Add	89.60	
33 42 11 00-0610	LF	72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	256.92	51.36
		For Bituminous Coated Pipe, Add	30.96	
		For Bituminous Coated And 25% Paved, Add	58.97	
		For Smooth-Flo, Add	96.12	
33 42 11 00-0611	LF	78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	277.64	56.17
		For Bituminous Coated Pipe, Add	33.06	
		For Bituminous Coated And 25% Paved, Add	62.98	
		For Smooth-Flo, Add	102.65	
33 42 11 00-0612	LF	84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	296.23	60.18
		For Bituminous Coated Pipe, Add	35.17	
		For Bituminous Coated And 25% Paved, Add	67.00	
		For Smooth-Flo, Add	109.20	
33 42 11 00-0613	LF	90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	314.76	64.20
		For Bituminous Coated Pipe, Add	37.27	
		For Bituminous Coated And 25% Paved, Add	71.00	
		For Smooth-Flo, Add	115.73	
33 42 11 00-0614	LF	96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	333.90	68.21
		For Bituminous Coated Pipe, Add	39.38	
		For Bituminous Coated And 25% Paved, Add	75.02	
		For Smooth-Flo, Add	122.27	
33 42 11 00-0615	LF	102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	355.29	72.22
		For Bituminous Coated Pipe, Add	41.49	
		For Bituminous Coated And 25% Paved, Add	79.04	
		For Smooth-Flo, Add	128.83	
33 42 11 00-0616	LF	108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	378.46	80.25
		For Bituminous Coated Pipe, Add	43.59	
		For Bituminous Coated And 25% Paved, Add	83.04	
		For Smooth-Flo, Add	135.35	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0617 LF 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	401.25	88.27
For Bituminous Coated Pipe, Add	45.68	
For Bituminous Coated And 25% Paved, Add	87.02	
For Smooth-Flo, Add	141.84	
33 42 11 00-0618 LF 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	423.14	96.30
For Bituminous Coated Pipe, Add	47.79	
For Bituminous Coated And 25% Paved, Add	91.04	
For Smooth-Flo, Add	148.39	
33 42 11 00-0619 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0581)		
33 42 11 00-0620 LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	287.95	51.36
For Bituminous Coated Pipe, Add	37.16	
For Bituminous Coated And 25% Paved, Add	70.61	
For Smooth-Flo, Add	94.39	
33 42 11 00-0621 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	311.21	56.17
For Bituminous Coated Pipe, Add	39.77	
For Bituminous Coated And 25% Paved, Add	75.57	
For Smooth-Flo, Add	101.02	
33 42 11 00-0622 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	332.35	60.18
For Bituminous Coated Pipe, Add	42.39	
For Bituminous Coated And 25% Paved, Add	80.55	
For Smooth-Flo, Add	107.68	
33 42 11 00-0623 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	353.43	64.20
For Bituminous Coated Pipe, Add	45.01	
For Bituminous Coated And 25% Paved, Add	85.51	
For Smooth-Flo, Add	114.32	
33 42 11 00-0624 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	375.12	68.21
For Bituminous Coated Pipe, Add	47.62	
For Bituminous Coated And 25% Paved, Add	90.48	
For Smooth-Flo, Add	120.96	
33 42 11 00-0625 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	399.05	72.22
For Bituminous Coated Pipe, Add	50.24	
For Bituminous Coated And 25% Paved, Add	95.46	
For Smooth-Flo, Add	127.61	
33 42 11 00-0626 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	424.77	80.25
For Bituminous Coated Pipe, Add	52.85	
For Bituminous Coated And 25% Paved, Add	100.42	
For Smooth-Flo, Add	134.25	
33 42 11 00-0627 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	450.08	88.27
For Bituminous Coated Pipe, Add	55.45	
For Bituminous Coated And 25% Paved, Add	105.35	
For Smooth-Flo, Add	140.83	
33 42 11 00-0628 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	474.54	96.30
For Bituminous Coated Pipe, Add	58.07	
For Bituminous Coated And 25% Paved, Add	110.34	
For Smooth-Flo, Add	147.50	
33 42 11 00-0629 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	500.47	104.33
For Bituminous Coated Pipe, Add	60.67	
For Bituminous Coated And 25% Paved, Add	115.28	
For Smooth-Flo, Add	154.11	
33 42 11 00-0630 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	528.45	112.35
For Bituminous Coated Pipe, Add	63.29	
For Bituminous Coated And 25% Paved, Add	120.26	
For Smooth-Flo, Add	160.77	
33 42 11 00-0631 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	558.89	120.38
For Bituminous Coated Pipe, Add	65.92	
For Bituminous Coated And 25% Paved, Add	125.25	
For Smooth-Flo, Add	167.44	
33 42 11 00-0632 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0539)		
33 42 11 00-0633 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0632)		
33 42 11 00-0634 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	104.91	24.08
For Bituminous Coated Pipe, Add	14.71	
For Bituminous Coated And 25% Paved, Add	33.53	
For Smooth-Flo, Add	53.23	
33 42 11 00-0635 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	124.94	27.28
For Bituminous Coated Pipe, Add	18.02	
For Bituminous Coated And 25% Paved, Add	41.08	
For Smooth-Flo, Add	65.22	
33 42 11 00-0636 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	136.01	28.89
For Bituminous Coated Pipe, Add	19.60	
For Bituminous Coated And 25% Paved, Add	44.68	
For Smooth-Flo, Add	70.94	
33 42 11 00-0637 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	167.82	35.31
For Bituminous Coated Pipe, Add	24.67	
For Bituminous Coated And 25% Paved, Add	56.25	
For Smooth-Flo, Add	89.31	



Utilities			33	CS
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 42 11 00-0638	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	207.26	51.36
		For Bituminous Coated Pipe, Add	26.28	
		For Bituminous Coated And 25% Paved, Add	59.92	
		For Smooth-Flo, Add	95.13	
33 42 11 00-0639	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	223.89	56.17
		For Bituminous Coated Pipe, Add	27.89	
		For Bituminous Coated And 25% Paved, Add	63.58	
		For Smooth-Flo, Add	100.94	
33 42 11 00-0640	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	238.31	60.18
		For Bituminous Coated Pipe, Add	29.48	
		For Bituminous Coated And 25% Paved, Add	67.22	
		For Smooth-Flo, Add	106.73	
33 42 11 00-0641	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	252.70	64.20
		For Bituminous Coated Pipe, Add	31.08	
		For Bituminous Coated And 25% Paved, Add	70.85	
		For Smooth-Flo, Add	112.49	
33 42 11 00-0642	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	267.77	68.21
		For Bituminous Coated Pipe, Add	32.69	
		For Bituminous Coated And 25% Paved, Add	74.53	
		For Smooth-Flo, Add	118.34	
33 42 11 00-0643	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	285.22	72.22
		For Bituminous Coated Pipe, Add	34.35	
		For Bituminous Coated And 25% Paved, Add	78.31	
		For Smooth-Flo, Add	124.33	
33 42 11 00-0644		14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0632)		
33 42 11 00-0645	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	139.02	27.28
		For Bituminous Coated Pipe, Add	17.23	
		For Bituminous Coated And 25% Paved, Add	40.49	
		For Smooth-Flo, Add	73.31	
33 42 11 00-0646	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	151.66	28.89
		For Bituminous Coated Pipe, Add	18.81	
		For Bituminous Coated And 25% Paved, Add	44.20	
		For Smooth-Flo, Add	80.03	
33 42 11 00-0647	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	184.90	35.31
		For Bituminous Coated Pipe, Add	23.15	
		For Bituminous Coated And 25% Paved, Add	54.41	
		For Smooth-Flo, Add	98.51	
33 42 11 00-0648	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	225.71	51.36
		For Bituminous Coated Pipe, Add	24.71	
		For Bituminous Coated And 25% Paved, Add	58.08	
		For Smooth-Flo, Add	105.16	
33 42 11 00-0649	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	244.01	56.17
		For Bituminous Coated Pipe, Add	26.33	
		For Bituminous Coated And 25% Paved, Add	61.88	
		For Smooth-Flo, Add	112.04	
33 42 11 00-0650	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	260.00	60.18
		For Bituminous Coated Pipe, Add	27.92	
		For Bituminous Coated And 25% Paved, Add	65.62	
		For Smooth-Flo, Add	118.82	
33 42 11 00-0651	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	275.16	64.20
		For Bituminous Coated Pipe, Add	29.35	
		For Bituminous Coated And 25% Paved, Add	68.98	
		For Smooth-Flo, Add	124.89	
33 42 11 00-0652	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	292.51	68.21
		For Bituminous Coated Pipe, Add	31.10	
		For Bituminous Coated And 25% Paved, Add	73.09	
		For Smooth-Flo, Add	132.33	
33 42 11 00-0653	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	311.28	72.22
		For Bituminous Coated Pipe, Add	32.69	
		For Bituminous Coated And 25% Paved, Add	76.82	
		For Smooth-Flo, Add	139.09	
33 42 11 00-0654	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	331.80	80.25
		For Bituminous Coated Pipe, Add	34.26	
		For Bituminous Coated And 25% Paved, Add	80.51	
		For Smooth-Flo, Add	145.78	
33 42 11 00-0655	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	352.22	88.27
		For Bituminous Coated Pipe, Add	35.87	
		For Bituminous Coated And 25% Paved, Add	84.30	
		For Smooth-Flo, Add	152.64	
33 42 11 00-0656		12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0632)		
33 42 11 00-0657	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	180.97	28.89
		For Bituminous Coated Pipe, Add	24.67	
		For Bituminous Coated And 25% Paved, Add	46.87	
		For Smooth-Flo, Add	84.62	
33 42 11 00-0658	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	217.18	35.31
		For Bituminous Coated Pipe, Add	29.61	
		For Bituminous Coated And 25% Paved, Add	56.26	
		For Smooth-Flo, Add	101.56	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0659 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	261.06	51.36
For Bituminous Coated Pipe, Add	31.78	
For Bituminous Coated And 25% Paved, Add	60.39	
For Smooth-Flo, Add	109.02	
33 42 11 00-0660 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	282.08	56.17
For Bituminous Coated Pipe, Add	33.95	
For Bituminous Coated And 25% Paved, Add	64.50	
For Smooth-Flo, Add	116.43	
33 42 11 00-0661 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	300.82	60.18
For Bituminous Coated Pipe, Add	36.09	
For Bituminous Coated And 25% Paved, Add	68.57	
For Smooth-Flo, Add	123.78	
33 42 11 00-0662 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	319.70	64.20
For Bituminous Coated Pipe, Add	38.26	
For Bituminous Coated And 25% Paved, Add	72.69	
For Smooth-Flo, Add	131.23	
33 42 11 00-0663 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	339.09	68.21
For Bituminous Coated Pipe, Add	40.42	
For Bituminous Coated And 25% Paved, Add	76.79	
For Smooth-Flo, Add	138.63	
33 42 11 00-0664 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	360.68	72.22
For Bituminous Coated Pipe, Add	42.57	
For Bituminous Coated And 25% Paved, Add	80.88	
For Smooth-Flo, Add	146.01	
33 42 11 00-0665 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	384.20	80.25
For Bituminous Coated Pipe, Add	44.74	
For Bituminous Coated And 25% Paved, Add	85.01	
For Smooth-Flo, Add	153.46	
33 42 11 00-0666 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	407.34	88.27
For Bituminous Coated Pipe, Add	46.90	
For Bituminous Coated And 25% Paved, Add	89.11	
For Smooth-Flo, Add	160.86	
33 42 11 00-0667 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	429.45	96.30
For Bituminous Coated Pipe, Add	49.05	
For Bituminous Coated And 25% Paved, Add	93.20	
For Smooth-Flo, Add	168.26	
33 42 11 00-0668 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
Piping (33 42 11 00-0632)		
33 42 11 00-0669 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	294.91	51.36
For Bituminous Coated Pipe, Add	38.55	
For Bituminous Coated And 25% Paved, Add	73.25	
For Smooth-Flo, Add	115.08	
33 42 11 00-0670 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	319.08	56.17
For Bituminous Coated Pipe, Add	41.35	
For Bituminous Coated And 25% Paved, Add	78.56	
For Smooth-Flo, Add	123.42	
33 42 11 00-0671 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	340.76	60.18
For Bituminous Coated Pipe, Add	44.08	
For Bituminous Coated And 25% Paved, Add	83.74	
For Smooth-Flo, Add	131.57	
33 42 11 00-0672 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	362.31	64.20
For Bituminous Coated Pipe, Add	46.78	
For Bituminous Coated And 25% Paved, Add	88.89	
For Smooth-Flo, Add	139.64	
33 42 11 00-0673 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	384.60	68.21
For Bituminous Coated Pipe, Add	49.52	
For Bituminous Coated And 25% Paved, Add	94.08	
For Smooth-Flo, Add	147.81	
33 42 11 00-0674 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	408.99	72.22
For Bituminous Coated Pipe, Add	52.23	
For Bituminous Coated And 25% Paved, Add	99.24	
For Smooth-Flo, Add	155.91	
33 42 11 00-0675 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	435.30	80.25
For Bituminous Coated Pipe, Add	54.96	
For Bituminous Coated And 25% Paved, Add	104.42	
For Smooth-Flo, Add	164.06	
33 42 11 00-0676 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	461.28	88.27
For Bituminous Coated Pipe, Add	57.69	
For Bituminous Coated And 25% Paved, Add	109.60	
For Smooth-Flo, Add	172.19	
33 42 11 00-0677 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	486.17	96.30
For Bituminous Coated Pipe, Add	60.40	
For Bituminous Coated And 25% Paved, Add	114.76	
For Smooth-Flo, Add	180.29	
33 42 11 00-0678 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	517.00	104.33
For Bituminous Coated Pipe, Add	63.98	
For Bituminous Coated And 25% Paved, Add	121.56	
For Smooth-Flo, Add	190.97	
33 42 11 00-0679 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	546.62	112.35
For Bituminous Coated Pipe, Add	66.93	
For Bituminous Coated And 25% Paved, Add	127.16	
For Smooth-Flo, Add	199.78	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0680	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	579.26	120.38
		For Bituminous Coated Pipe, Add	69.99	
		For Bituminous Coated And 25% Paved, Add	132.99	
		For Smooth-Flo, Add	208.93	
33 42 11 00-0681		Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0539)		
33 42 11 00-0682		16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0681)		
33 42 11 00-0683	LF	18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	37.14	9.07
		For Bituminous Coated Pipe, Add	4.53	
33 42 11 00-0684	LF	21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	42.27	9.82
		For Bituminous Coated Pipe, Add	5.40	
33 42 11 00-0685	LF	24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	47.04	10.58
		For Bituminous Coated Pipe, Add	6.13	
33 42 11 00-0686	LF	30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	61.81	13.60
		For Bituminous Coated Pipe, Add	7.90	
33 42 11 00-0687	LF	36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	79.94	17.65
		For Bituminous Coated Pipe, Add	9.90	
33 42 11 00-0688	LF	42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	90.96	20.86
		For Bituminous Coated Pipe, Add	11.67	
33 42 11 00-0689	LF	48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	102.48	24.08
		For Bituminous Coated Pipe, Add	13.14	
33 42 11 00-0690	LF	54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	121.95	27.28
		For Bituminous Coated Pipe, Add	16.10	
33 42 11 00-0691	LF	60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	133.04	28.89
		For Bituminous Coated Pipe, Add	17.57	
33 42 11 00-0692		14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0681)		
33 42 11 00-0693	LF	18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	40.38	9.07
		For Bituminous Coated Pipe, Add	5.24	
33 42 11 00-0694	LF	21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	46.06	9.82
		For Bituminous Coated Pipe, Add	6.23	
33 42 11 00-0695	LF	24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	51.36	10.58
		For Bituminous Coated Pipe, Add	7.08	
33 42 11 00-0696	LF	30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	67.18	13.60
		For Bituminous Coated Pipe, Add	9.07	
33 42 11 00-0697	LF	36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	86.40	17.65
		For Bituminous Coated Pipe, Add	11.31	
33 42 11 00-0698	LF	42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	98.53	20.86
		For Bituminous Coated Pipe, Add	13.32	
33 42 11 00-0699	LF	48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	111.12	24.08
		For Bituminous Coated Pipe, Add	15.02	
33 42 11 00-0700	LF	54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	131.66	27.28
		For Bituminous Coated Pipe, Add	18.20	
33 42 11 00-0701	LF	60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	143.85	28.89
		For Bituminous Coated Pipe, Add	19.92	
33 42 11 00-0702	LF	66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	176.26	35.31
		For Bituminous Coated Pipe, Add	24.74	
33 42 11 00-0703	LF	72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	216.60	51.36
		For Bituminous Coated Pipe, Add	26.44	
33 42 11 00-0704	LF	78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	234.27	56.17
		For Bituminous Coated Pipe, Add	28.16	
33 42 11 00-0705		12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0681)		
33 42 11 00-0706	LF	30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	78.06	13.60
		For Bituminous Coated Pipe, Add	9.48	
33 42 11 00-0707	LF	36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	99.41	17.65
		For Bituminous Coated Pipe, Add	11.71	
33 42 11 00-0708	LF	42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	113.75	20.86
		For Bituminous Coated Pipe, Add	13.78	
33 42 11 00-0709	LF	48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	128.50	24.08
		For Bituminous Coated Pipe, Add	15.58	
33 42 11 00-0710	LF	54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	151.23	27.28
		For Bituminous Coated Pipe, Add	18.59	
33 42 11 00-0711	LF	60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	165.61	28.89
		For Bituminous Coated Pipe, Add	20.41	
33 42 11 00-0712	LF	66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	200.15	35.31
		For Bituminous Coated Pipe, Add	24.76	
33 42 11 00-0713	LF	72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	242.64	51.36
		For Bituminous Coated Pipe, Add	26.55	
33 42 11 00-0714	LF	78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	262.46	56.17
		For Bituminous Coated Pipe, Add	28.37	
33 42 11 00-0715	LF	84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	280.05	60.18
		For Bituminous Coated Pipe, Add	30.18	
33 42 11 00-0716	LF	90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	297.61	64.20
		For Bituminous Coated Pipe, Add	31.98	
33 42 11 00-0717	LF	96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	315.75	68.21
		For Bituminous Coated Pipe, Add	33.78	
33 42 11 00-0718	LF	102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	335.07	72.22
		For Bituminous Coated Pipe, Add	35.39	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0719	1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0539)		
33 42 11 00-0720	1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0719)		
33 42 11 00-0721	LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	13.80 1.16	4.53
33 42 11 00-0722	LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	14.76 1.39	4.53
33 42 11 00-0723	LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	17.24 1.53	5.67
33 42 11 00-0724	LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	18.47 1.83	5.67
33 42 11 00-0725	LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	21.81 1.93	6.80
33 42 11 00-0726	LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	23.36 2.31	6.80
33 42 11 00-0727	Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0719)		
33 42 11 00-0728	LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	13.93 1.14	4.53
33 42 11 00-0729	LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	14.87 1.36	4.53
33 42 11 00-0730	LF 8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	17.38 1.50	5.67
33 42 11 00-0731	LF 8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	18.68 1.81	5.67
33 42 11 00-0732	LF 10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	22.04 1.90	6.80
33 42 11 00-0733	LF 10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	23.63 2.27	6.80
33 42 11 00-0734	1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0719)		
33 42 11 00-0735	EA 6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	7.15 1.61	
33 42 11 00-0736	EA 8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	9.47 2.13	
33 42 11 00-0737	EA 10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	11.61 2.61	
33 42 11 00-0738	EA 6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	25.79 3.56	
33 42 11 00-0739	EA 6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	6.53 0.81	
33 42 11 00-0740	EA 8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	8.12 1.22	
33 42 11 00-0741	2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0539)		
33 42 11 00-0742	16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0741)		
33 42 11 00-0743	LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	40.62	7.94
33 42 11 00-0744	LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	47.47	8.32
33 42 11 00-0745	LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	54.54	9.07
33 42 11 00-0746	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	63.15	9.82
33 42 11 00-0747	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	70.34	10.58
33 42 11 00-0748	LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	92.21	13.60
33 42 11 00-0749	LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	118.61	17.65
33 42 11 00-0750	LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	136.88	20.86
33 42 11 00-0751	LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	153.65	24.08
33 42 11 00-0752	14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0741)		
33 42 11 00-0753	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	45.84	7.94
33 42 11 00-0754	LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	53.94	8.32
33 42 11 00-0755	LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	62.29	9.07
33 42 11 00-0756	LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	72.12	9.82
33 42 11 00-0757	LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	80.76	10.58
33 42 11 00-0758	LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	105.01	13.60
33 42 11 00-0759	LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	134.06	17.65
33 42 11 00-0760	LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	154.60	20.86
33 42 11 00-0761	LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	173.89	24.08
33 42 11 00-0762	LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	210.05	27.28
33 42 11 00-0763	12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0741)		
33 42 11 00-0764	LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	78.44	9.07
33 42 11 00-0765	LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	90.99	9.82
33 42 11 00-0766	LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	102.21	10.58



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0767	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	131.80	13.60
33 42 11 00-0768	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	159.64	17.65
33 42 11 00-0769	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	192.08	20.86
33 42 11 00-0770	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	216.65	24.08
33 42 11 00-0771	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	258.85	27.28
33 42 11 00-0772	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	282.84	28.89
33 42 11 00-0773	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	346.15	35.31
33 42 11 00-0774		10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0741)		
33 42 11 00-0775	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	195.58	17.65
33 42 11 00-0776	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	226.22	20.86
33 42 11 00-0777	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	255.43	24.08
33 42 11 00-0778	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	302.29	27.28
33 42 11 00-0779	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	331.20	28.89
33 42 11 00-0780	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	399.27	35.31
33 42 11 00-0781	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	456.08	51.36
33 42 11 00-0782		3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0539)		
33 42 11 00-0783		16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)		
33 42 11 00-0784	LF	36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	148.27	17.65
33 42 11 00-0785	LF	42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	171.07	20.86
33 42 11 00-0786	LF	48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	191.99	24.08
33 42 11 00-0787	LF	54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	231.86	27.28
33 42 11 00-0788	LF	60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	252.47	28.89
33 42 11 00-0789	LF	66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	320.73	35.31
33 42 11 00-0790	LF	72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	370.11	51.36
33 42 11 00-0791	LF	78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	396.69	56.17
33 42 11 00-0792	LF	84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	421.14	60.18
33 42 11 00-0793	LF	90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	445.61	64.20
33 42 11 00-0794	LF	96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	470.59	68.21
33 42 11 00-0795	LF	102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	497.93	72.22
33 42 11 00-0796		14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)		
33 42 11 00-0797	LF	54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	259.79	27.28
33 42 11 00-0798	LF	60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	283.34	28.89
33 42 11 00-0799	LF	66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	354.74	35.31
33 42 11 00-0800	LF	72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	407.09	51.36
33 42 11 00-0801	LF	78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	436.69	56.17
33 42 11 00-0802	LF	84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	464.28	60.18
33 42 11 00-0803	LF	90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	491.68	64.20
33 42 11 00-0804	LF	96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	519.66	68.21
33 42 11 00-0805	LF	102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	550.04	72.22
33 42 11 00-0806	LF	108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	582.18	80.25
33 42 11 00-0807	LF	114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	613.65	88.27
33 42 11 00-0808		12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)		
33 42 11 00-0809	LF	60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	353.57	28.89
33 42 11 00-0810	LF	66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	432.87	35.31
33 42 11 00-0811	LF	72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	492.00	51.36
33 42 11 00-0812	LF	78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	528.41	56.17
33 42 11 00-0813	LF	84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	562.77	60.18
33 42 11 00-0814	LF	90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	596.98	64.20
33 42 11 00-0815	LF	96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	631.83	68.21
33 42 11 00-0816	LF	102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	668.98	72.22
33 42 11 00-0817	LF	108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	707.83	80.25
33 42 11 00-0818	LF	114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	746.21	88.27
33 42 11 00-0819	LF	120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	783.87	96.30
33 42 11 00-0820		10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)		
33 42 11 00-0821	LF	72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	569.36	51.36
33 42 11 00-0822	LF	78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	612.07	56.17
33 42 11 00-0823	LF	84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	652.79	60.18
33 42 11 00-0824	LF	90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	693.34	64.20
33 42 11 00-0825	LF	96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	734.55	68.21
33 42 11 00-0826	LF	102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	778.04	72.22
33 42 11 00-0827	LF	108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	823.26	80.25
33 42 11 00-0828	LF	114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	867.95	88.27
33 42 11 00-0829	LF	120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	911.96	96.30
33 42 11 00-0830	LF	126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	957.33	104.33
33 42 11 00-0831	LF	132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,004.87	112.35
33 42 11 00-0832	LF	138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,054.88	120.38
33 42 11 00-0833		125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0539)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0834		16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0833)		
33 42 11 00-0835	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	185.97	24.08
33 42 11 00-0836	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	225.23	27.28
33 42 11 00-0837	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	244.88	28.89
33 42 11 00-0838	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	306.62	35.31
33 42 11 00-0839	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	354.84	51.36
33 42 11 00-0840	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	380.22	56.17
33 42 11 00-0841	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	403.31	60.18
33 42 11 00-0842	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	426.34	64.20
33 42 11 00-0843	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	450.19	68.21
33 42 11 00-0844	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	476.69	72.22
33 42 11 00-0845		14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0833)		
33 42 11 00-0846	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	258.40	27.28
33 42 11 00-0847	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	281.82	28.89
33 42 11 00-0848	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	346.92	35.31
33 42 11 00-0849	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	398.39	51.36
33 42 11 00-0850	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	427.69	56.17
33 42 11 00-0851	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	454.48	60.18
33 42 11 00-0852	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	479.37	64.20
33 42 11 00-0853	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	508.59	68.21
33 42 11 00-0854	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	538.18	72.22
33 42 11 00-0855	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	569.38	80.25
33 42 11 00-0856	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	600.76	88.27
33 42 11 00-0857		12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0833)		
33 42 11 00-0858	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	355.88	28.89
33 42 11 00-0859	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	428.85	35.31
33 42 11 00-0860	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	488.05	51.36
33 42 11 00-0861	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	524.17	56.17
33 42 11 00-0862	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	557.90	60.18
33 42 11 00-0863	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	592.03	64.20
33 42 11 00-0864	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	626.55	68.21
33 42 11 00-0865	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	663.18	72.22
33 42 11 00-0866	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	701.94	80.25
33 42 11 00-0867	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	740.19	88.27
33 42 11 00-0868	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	777.40	96.30
33 42 11 00-0869		10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0833)		
33 42 11 00-0870	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	569.33	51.36
33 42 11 00-0871	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	613.01	56.17
33 42 11 00-0872	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	653.86	60.18
33 42 11 00-0873	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	694.38	64.20
33 42 11 00-0874	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	735.78	68.21
33 42 11 00-0875	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	779.21	72.22
33 42 11 00-0876	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	824.62	80.25
33 42 11 00-0877	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	869.69	88.27
33 42 11 00-0878	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	913.61	96.30
33 42 11 00-0879	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	969.50	104.33
33 42 11 00-0880	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,019.82	112.35
33 42 11 00-0881	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,073.93	120.38
33 42 11 00-0882		Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0538)		
33 42 11 00-0883		2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0882)		
33 42 11 00-0884		16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0883)		
33 42 11 00-0885	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	30.30	8.32
		For Bituminous Coated Pipe, Add	3.29	
		For Bituminous Coated And 25% Paved, Add	7.96	
		For Smooth-Flo, Add	13.14	
33 42 11 00-0886	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	33.49	9.07
		For Bituminous Coated Pipe, Add	3.93	
		For Bituminous Coated And 25% Paved, Add	9.51	
		For Smooth-Flo, Add	15.69	
33 42 11 00-0887	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	38.12	9.82
		For Bituminous Coated Pipe, Add	4.74	
		For Bituminous Coated And 25% Paved, Add	11.45	
		For Smooth-Flo, Add	18.89	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0888	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	42.65	10.58	
		For Bituminous Coated Pipe, Add	5.46		
		For Bituminous Coated And 25% Paved, Add	13.20		
		For Smooth-Flo, Add	21.77		
33 42 11 00-0889	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	55.74	13.60	
		For Bituminous Coated Pipe, Add	6.93		
		For Bituminous Coated And 25% Paved, Add	16.75		
		For Smooth-Flo, Add	27.64		
33 42 11 00-0890	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	73.35	17.65	
		For Bituminous Coated Pipe, Add	8.94		
		For Bituminous Coated And 25% Paved, Add	21.61		
		For Smooth-Flo, Add	35.65		
33 42 11 00-0891 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0883)					
33 42 11 00-0892	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	32.97	8.32	
		For Bituminous Coated Pipe, Add	3.42		
		For Bituminous Coated And 25% Paved, Add	8.00		
		For Smooth-Flo, Add	13.12		
33 42 11 00-0893	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	36.76	9.07	
		For Bituminous Coated Pipe, Add	4.10		
		For Bituminous Coated And 25% Paved, Add	9.59		
		For Smooth-Flo, Add	15.73		
33 42 11 00-0894	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	41.77	9.82	
		For Bituminous Coated Pipe, Add	4.87		
		For Bituminous Coated And 25% Paved, Add	11.40		
		For Smooth-Flo, Add	18.70		
33 42 11 00-0895	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	46.87	10.58	
		For Bituminous Coated Pipe, Add	5.62		
		For Bituminous Coated And 25% Paved, Add	13.15		
		For Smooth-Flo, Add	21.57		
33 42 11 00-0896	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	61.01	13.60	
		For Bituminous Coated Pipe, Add	7.12		
		For Bituminous Coated And 25% Paved, Add	16.65		
		For Smooth-Flo, Add	27.31		
33 42 11 00-0897	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	79.61	17.65	
		For Bituminous Coated Pipe, Add	9.06		
		For Bituminous Coated And 25% Paved, Add	21.21		
		For Smooth-Flo, Add	34.78		
33 42 11 00-0898	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	91.09	20.86	
		For Bituminous Coated Pipe, Add	10.80		
		For Bituminous Coated And 25% Paved, Add	25.27		
		For Smooth-Flo, Add	41.44		
33 42 11 00-0899 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0883)					
33 42 11 00-0900	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	47.56	9.63	
		For Bituminous Coated Pipe, Add	4.44		
		For Bituminous Coated And 25% Paved, Add	9.87		
		For Smooth-Flo, Add	15.18		
33 42 11 00-0901	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	54.07	10.44	
		For Bituminous Coated Pipe, Add	5.26		
		For Bituminous Coated And 25% Paved, Add	11.71		
		For Smooth-Flo, Add	18.00		
33 42 11 00-0902	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	60.55	11.23	
		For Bituminous Coated Pipe, Add	6.03		
		For Bituminous Coated And 25% Paved, Add	13.42		
		For Smooth-Flo, Add	20.64		
33 42 11 00-0903	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	78.48	14.45	
		For Bituminous Coated Pipe, Add	7.60		
		For Bituminous Coated And 25% Paved, Add	16.91		
		For Smooth-Flo, Add	25.99		
33 42 11 00-0904	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	92.40	17.65	
		For Bituminous Coated Pipe, Add	9.51		
		For Bituminous Coated And 25% Paved, Add	21.16		
		For Smooth-Flo, Add	32.53		
33 42 11 00-0905	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	105.84	20.86	
		For Bituminous Coated Pipe, Add	11.24		
		For Bituminous Coated And 25% Paved, Add	25.02		
		For Smooth-Flo, Add	38.47		
33 42 11 00-0906	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	123.15	24.08	
		For Bituminous Coated Pipe, Add	13.33		
		For Bituminous Coated And 25% Paved, Add	29.67		
		For Smooth-Flo, Add	45.62		
33 42 11 00-0907	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	137.97	27.28	
		For Bituminous Coated Pipe, Add	14.72		
		For Bituminous Coated And 25% Paved, Add	32.76		
		For Smooth-Flo, Add	50.38		
33 42 11 00-0908 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0883)					

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0909	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	104.43 11.45 24.11 30.41	17.65
33 42 11 00-0910	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	119.87 13.51 28.44 35.87	20.86
33 42 11 00-0911	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	139.06 15.90 33.47 42.21	24.08
33 42 11 00-0912	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	155.95 17.63 37.11 46.80	27.28
33 42 11 00-0913	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	170.78 19.35 40.74 51.37	28.89
33 42 11 00-0914		3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0882)		
33 42 11 00-0915		14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0914)		
33 42 11 00-0916	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	137.80 16.99 51.64 57.75	27.28
33 42 11 00-0917	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	150.56 18.59 56.51 63.20	28.89
33 42 11 00-0918	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	185.87 23.35 70.97 79.38	35.31
33 42 11 00-0919	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	227.28 25.03 76.09 85.10	51.36
33 42 11 00-0920	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	246.33 26.80 81.46 91.11	56.17
33 42 11 00-0921	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	263.25 28.57 86.86 97.15	60.18
33 42 11 00-0922	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	280.11 30.34 92.24 103.16	64.20
33 42 11 00-0923	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	297.53 32.10 97.60 109.15	68.21
33 42 11 00-0924		12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0914)		
33 42 11 00-0925	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	178.22 24.12 63.19 74.77	28.89
33 42 11 00-0926	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	216.55 29.48 77.24 91.39	35.31
33 42 11 00-0927	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	260.69 31.71 83.08 98.30	51.36
33 42 11 00-0928	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	282.43 34.02 89.12 105.45	56.17
33 42 11 00-0929	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	302.04 36.33 95.19 112.63	60.18
33 42 11 00-0930	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	321.62 38.64 101.25 119.80	64.20



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0931	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	341.74 40.95 107.28 126.93	68.21
33 42 11 00-0932	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	364.20 43.27 113.37 134.14	72.22
33 42 11 00-0933	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	388.42 45.58 119.43 141.31	80.25
33 42 11 00-0934	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	413.48 48.13 126.09 149.19	88.27
33 42 11 00-0935 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0914)				
33 42 11 00-0936	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	291.72 37.92 90.24 98.01	51.36
33 42 11 00-0937	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	316.03 40.74 96.95 105.30	56.17
33 42 11 00-0938	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	338.19 43.56 103.68 112.61	60.18
33 42 11 00-0939	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	360.27 46.37 110.37 119.88	64.20
33 42 11 00-0940	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	382.96 49.19 117.07 127.16	68.21
33 42 11 00-0941	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	407.94 52.02 123.81 134.47	72.22
33 42 11 00-0942	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	434.70 54.84 130.52 141.76	80.25
33 42 11 00-0943	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	462.11 57.85 137.69 149.55	88.27
33 42 11 00-0944	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	491.51 61.47 146.29 158.89	96.30
33 42 11 00-0945 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0945)				
33 42 11 00-0946 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0945)				
33 42 11 00-0947	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	263.73 32.32 78.86 100.35	51.36
33 42 11 00-0948	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	285.18 34.57 84.34 107.33	56.17
33 42 11 00-0949	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	304.31 36.79 89.76 114.22	60.18
33 42 11 00-0950	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	323.44 39.01 95.18 121.12	64.20
33 42 11 00-0951	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	343.24 41.25 100.64 128.07	68.21

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0952 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	365.45 43.52 106.19 135.14	72.22
33 42 11 00-0953 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	389.42 45.78 111.71 142.16	80.25
33 42 11 00-0954 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	415.95 48.62 118.63 150.97	88.27
33 42 11 00-0955 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0945)		
33 42 11 00-0956 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	298.08 39.19 88.56 96.21	51.36
33 42 11 00-0957 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	322.27 41.98 94.88 103.07	56.17
33 42 11 00-0958 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	344.21 44.77 101.17 109.90	60.18
33 42 11 00-0959 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	366.21 47.56 107.49 116.76	64.20
33 42 11 00-0960 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	388.32 50.26 113.59 123.39	68.21
33 42 11 00-0961 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	413.71 53.17 120.17 130.54	72.22
33 42 11 00-0962 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	440.52 56.00 126.57 137.49	80.25
33 42 11 00-0963 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	469.87 59.40 134.25 145.84	88.27
33 42 11 00-0964 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	497.25 62.61 141.51 153.72	96.30
33 42 11 00-0965 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0882)		
33 42 11 00-0966 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0965)		
33 42 11 00-0967 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0968 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0969 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0970 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0971 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0972 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	47.51 54.07 62.95 71.29 92.23 120.75	8.32 9.07 9.82 10.58 13.60 17.65
33 42 11 00-0973 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0965)		
33 42 11 00-0974 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0975 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0976 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0977 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0978 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0979 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0980 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	53.66 61.57 71.33 81.03 104.34 135.15 157.39	8.32 9.07 9.82 10.58 13.60 17.65 20.86
33 42 11 00-0981 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0965)		
33 42 11 00-0982 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0983 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0984 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0985 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0986 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch 33 42 11 00-0987 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	79.97 93.12 105.71 135.15 172.36 200.72	9.07 9.82 10.58 13.60 17.65 20.86



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0988	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	236.44	24.08
33 42 11 00-0989	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	262.73	27.28
33 42 11 00-0990		10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0989)		
33 42 11 00-0991	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	201.54	17.65
33 42 11 00-0992	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	234.77	20.86
33 42 11 00-0993	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	275.03	24.08
33 42 11 00-0994	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	306.37	27.28
33 42 11 00-0995	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	335.59	28.89
33 42 11 00-0996		3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0882)		
33 42 11 00-0997		14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0996)		
33 42 11 00-0998	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	265.27	27.28
33 42 11 00-0999	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	289.79	28.89
33 42 11 00-1000	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	362.22	35.31
33 42 11 00-1001	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	416.08	51.36
33 42 11 00-1002	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	448.23	56.17
33 42 11 00-1003	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	478.29	60.18
33 42 11 00-1004	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	508.21	64.20
33 42 11 00-1005	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	538.79	68.21
33 42 11 00-1006		12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0996)		
33 42 11 00-1007	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	360.16	28.89
33 42 11 00-1008	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	440.55	35.31
33 42 11 00-1009	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	501.33	51.36
33 42 11 00-1010	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	540.28	56.17
33 42 11 00-1011	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	577.17	60.18
33 42 11 00-1012	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	614.00	64.20
33 42 11 00-1013	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	651.34	68.21
33 42 11 00-1014	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	691.13	72.22
33 42 11 00-1015	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	732.60	80.25
33 42 11 00-1016	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	776.64	88.27
33 42 11 00-1017		10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0996)		
33 42 11 00-1018	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	578.68	51.36
33 42 11 00-1019	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	624.02	56.17
33 42 11 00-1020	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	667.30	60.18
33 42 11 00-1021	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	710.34	64.20
33 42 11 00-1022	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	754.05	68.21
33 42 11 00-1023	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	800.16	72.22
33 42 11 00-1024	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	848.01	80.25
33 42 11 00-1025	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	897.86	88.27
33 42 11 00-1026	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	954.22	96.30
33 42 11 00-1027		125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0882)		
33 42 11 00-1028		12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-1027)		
33 42 11 00-1029	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	494.38	51.36
33 42 11 00-1030	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	531.58	56.17
33 42 11 00-1031	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	566.31	60.18
33 42 11 00-1032	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	600.97	64.20
33 42 11 00-1033	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	636.43	68.21
33 42 11 00-1034	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	674.60	72.22
33 42 11 00-1035	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	714.40	80.25
33 42 11 00-1036	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	760.79	88.27
33 42 11 00-1037		10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-1027)		
33 42 11 00-1038	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	576.87	51.36
33 42 11 00-1039	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	620.62	56.17
33 42 11 00-1040	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	662.04	60.18
33 42 11 00-1041	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	703.63	64.20
33 42 11 00-1042	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	744.71	68.21
33 42 11 00-1043	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	790.45	72.22
33 42 11 00-1044	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	837.11	80.25
33 42 11 00-1045	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	890.36	88.27
33 42 11 00-1046	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	940.11	96.30
33 42 11 00-1047		Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0538)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-1048	2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping ^(33 42 11 00-1047)				
33 42 11 00-1049	16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping ^(33 42 11 00-1048)				
33 42 11 00-1050	LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	28.62 4.90		7.94	
33 42 11 00-1051	LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	32.35 6.17		8.32	
33 42 11 00-1052	LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	36.21 7.48		9.07	
33 42 11 00-1053	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	41.24 8.94		9.82	
33 42 11 00-1054	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	45.67 10.08		10.58	
33 42 11 00-1055	LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	60.26 13.07		13.60	
33 42 11 00-1056	LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	78.27 16.49		17.65	
33 42 11 00-1057	LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	89.14 19.51		20.86	
33 42 11 00-1058	LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	100.19 21.86		24.08	
33 42 11 00-1059	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping ^(33 42 11 00-1048)				
33 42 11 00-1060	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	31.27 4.66		7.94	
33 42 11 00-1061	LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	35.62 5.84		8.32	
33 42 11 00-1062	LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	40.11 7.06		9.07	
33 42 11 00-1063	LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	45.76 8.40		9.82	
33 42 11 00-1064	LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	50.91 9.51		10.58	
33 42 11 00-1065	LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	66.68 12.21		13.60	
33 42 11 00-1066	LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	86.03 15.30		17.65	
33 42 11 00-1067	LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	98.08 18.02		20.86	
33 42 11 00-1068	LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	110.37 20.25		24.08	
33 42 11 00-1069	LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	131.91 24.90		27.28	
33 42 11 00-1070	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping ^(33 42 11 00-1048)				
33 42 11 00-1071	LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	48.30 6.58		9.07	
33 42 11 00-1072	LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	55.32 7.79		9.82	
33 42 11 00-1073	LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	61.77 8.82		10.58	
33 42 11 00-1074	LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	80.23 11.25		13.60	
33 42 11 00-1075	LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	102.38 13.96		17.65	
33 42 11 00-1076	LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	117.03 16.38		20.86	
33 42 11 00-1077	LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	131.99 18.47		24.08	
33 42 11 00-1078	LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	156.60 22.30		27.28	
33 42 11 00-1079	LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	171.03 24.38		28.89	
33 42 11 00-1080	LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	208.61 29.99		35.31	
33 42 11 00-1081	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping ^(33 42 11 00-1048)				
33 42 11 00-1082	LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	117.09 15.29		17.65	
33 42 11 00-1083	LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	134.23 17.93		20.86	
33 42 11 00-1084	LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	151.51 20.24		24.08	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-1085	LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	178.49 24.12	27.28	
33 42 11 00-1086	LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	195.40 26.45	28.89	
33 42 11 00-1087	LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	235.38 31.92	35.31	
33 42 11 00-1088	LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	280.36 34.22	51.36	
33 42 11 00-1089 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1047)				
33 42 11 00-1090 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1089)				
33 42 11 00-1091	LF 36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	89.82 18.33	17.65	
33 42 11 00-1092	LF 42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	102.37 21.53	20.86	
33 42 11 00-1093	LF 48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	115.07 24.14	24.08	
33 42 11 00-1094	LF 54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	137.12 29.49	27.28	
33 42 11 00-1095	LF 60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	149.41 32.13	28.89	
33 42 11 00-1096	LF 66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	187.04 41.27	35.31	
33 42 11 00-1097	LF 72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	227.81 43.98	51.36	
33 42 11 00-1098	LF 78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	245.81 46.71	56.17	
33 42 11 00-1099	LF 84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	261.65 49.44	60.18	
33 42 11 00-1100	LF 90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	277.48 52.18	64.20	
33 42 11 00-1101	LF 96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	293.88 54.90	68.21	
33 42 11 00-1102	LF 102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	312.58 57.66	72.22	
33 42 11 00-1103 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1089)				
33 42 11 00-1104	LF 54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	150.40 25.55	27.28	
33 42 11 00-1105	LF 60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	164.09 27.90	28.89	
33 42 11 00-1106	LF 66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	203.20 35.12	35.31	
33 42 11 00-1107	LF 72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	245.41 37.54	51.36	
33 42 11 00-1108	LF 78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	264.83 39.95	56.17	
33 42 11 00-1109	LF 84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	282.17 42.39	60.18	
33 42 11 00-1110	LF 90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	299.40 44.80	64.20	
33 42 11 00-1111	LF 96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	317.23 47.22	68.21	
33 42 11 00-1112	LF 102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	337.34 49.65	72.22	
33 42 11 00-1113	LF 108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	359.26 52.08	80.25	
33 42 11 00-1114	LF 114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	380.73 54.46	88.27	
33 42 11 00-1115 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1089)				
33 42 11 00-1116	LF 60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	196.72 37.42	28.89	
33 42 11 00-1117	LF 66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	239.32 45.78	35.31	
33 42 11 00-1118	LF 72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	284.68 49.10	51.36	
33 42 11 00-1119	LF 78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	307.29 52.44	56.17	
33 42 11 00-1120	LF 84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	327.78 55.79	60.18	
33 42 11 00-1121	LF 90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	348.21 59.13	64.20	
33 42 11 00-1122	LF 96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	369.20 62.46	68.21	
33 42 11 00-1123	LF 102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	392.49 65.81	72.22	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1124 LF 108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	417.55 69.15	80.25
33 42 11 00-1125 LF 114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	442.21 72.46	88.27
33 42 11 00-1126 LF 120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	466.00 75.81	96.30
33 42 11 00-1127 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1089)		
33 42 11 00-1128 LF 72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	321.30 60.27	51.36
33 42 11 00-1129 LF 78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	346.86 64.49	56.17
33 42 11 00-1130 LF 84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	370.37 68.75	60.18
33 42 11 00-1131 LF 90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	393.77 72.98	64.20
33 42 11 00-1132 LF 96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	417.81 77.22	68.21
33 42 11 00-1133 LF 102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	444.11 81.47	72.22
33 42 11 00-1134 LF 108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	472.15 85.70	80.25
33 42 11 00-1135 LF 114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	499.80 89.91	88.27
33 42 11 00-1136 LF 120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	526.61 94.17	96.30
33 42 11 00-1137 LF 126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	554.89 98.39	104.33
33 42 11 00-1138 LF 132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	585.22 102.64	112.35
33 42 11 00-1139 LF 138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	618.00 106.90	120.38
33 42 11 00-1140 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1047)		
33 42 11 00-1141 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1140)		
33 42 11 00-1142 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	115.49 29.91	24.08
33 42 11 00-1143 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	137.90 36.65	27.28
33 42 11 00-1144 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	150.09 39.85	28.89
33 42 11 00-1145 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	185.55 50.17	35.31
33 42 11 00-1146 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	226.14 53.44	51.36
33 42 11 00-1147 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	243.94 56.72	56.17
33 42 11 00-1148 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	259.50 59.96	60.18
33 42 11 00-1149 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	275.01 63.19	64.20
33 42 11 00-1150 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	291.26 66.48	68.21
33 42 11 00-1151 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	309.91 69.85	72.22
33 42 11 00-1152 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1140)		
33 42 11 00-1153 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	154.50 34.55	27.28
33 42 11 00-1154 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	168.58 37.73	28.89
33 42 11 00-1155 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	205.69 46.43	35.31
33 42 11 00-1156 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	247.93 49.57	51.36
33 42 11 00-1157 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	267.68 52.81	56.17
33 42 11 00-1158 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	285.09 56.00	60.18
33 42 11 00-1159 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	301.55 58.87	64.20
33 42 11 00-1160 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	320.45 62.37	68.21
33 42 11 00-1161 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	340.66 65.56	72.22



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-1162	LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	362.61 68.72		80.25	
33 42 11 00-1163	LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	384.47 71.95		88.27	
33 42 11 00-1164 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1140)					
33 42 11 00-1165	LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	203.16 41.62		28.89	
33 42 11 00-1166	LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	243.81 49.96		35.31	
33 42 11 00-1167	LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	289.67 53.63		51.36	
33 42 11 00-1168	LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	312.61 57.27		56.17	
33 42 11 00-1169	LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	333.30 60.90		60.18	
33 42 11 00-1170	LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	354.15 64.56		64.20	
33 42 11 00-1171	LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	375.47 68.20		68.21	
33 42 11 00-1172	LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	399.00 71.83		72.22	
33 42 11 00-1173	LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	424.47 75.50		80.25	
33 42 11 00-1174	LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	449.55 79.14		88.27	
33 42 11 00-1175	LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	473.61 82.78		96.30	
33 42 11 00-1176 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1140)					
33 42 11 00-1177	LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	329.64 65.07		51.36	
33 42 11 00-1178	LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	356.30 69.77		56.17	
33 42 11 00-1179	LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	380.46 74.38		60.18	
33 42 11 00-1180	LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	404.45 78.95		64.20	
33 42 11 00-1181	LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	429.16 83.55		68.21	
33 42 11 00-1182	LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	456.02 88.14		72.22	
33 42 11 00-1183	LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	484.78 92.74		80.25	
33 42 11 00-1184	LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	513.21 97.34		88.27	
33 42 11 00-1185	LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	540.54 101.92		96.30	
33 42 11 00-1186	LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	574.62 107.97		104.33	
33 42 11 00-1187	LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	606.89 112.94		112.35	
33 42 11 00-1188	LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... For 1/2 Bituminous Coated And 25% Paved, Add	642.27 118.11		120.38	
33 42 11 00-1189 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1047)					
33 42 11 00-1190 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1189)					
33 42 11 00-1191	LF 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	40.68		9.07	
33 42 11 00-1192	LF 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	46.41		9.82	
33 42 11 00-1193	LF 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	51.79		10.58	
33 42 11 00-1194	LF 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	67.73		13.60	
33 42 11 00-1195	LF 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	87.03		17.65	
33 42 11 00-1196	LF 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	99.25		20.86	
33 42 11 00-1197	LF 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	111.95		24.08	
33 42 11 00-1198	LF 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	132.61		27.28	
33 42 11 00-1199	LF 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	144.87		28.89	
33 42 11 00-1200 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1189)					
33 42 11 00-1201	LF 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	44.53		9.07	
33 42 11 00-1202	LF 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	50.90		9.82	
33 42 11 00-1203	LF 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	56.88		10.58	
33 42 11 00-1204	LF 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	74.09		13.60	
33 42 11 00-1205	LF 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	94.69		17.65	
33 42 11 00-1206	LF 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	108.21		20.86	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1207 LF 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	122.18	24.08
33 42 11 00-1208 LF 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	144.11	27.28
33 42 11 00-1209 LF 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	157.70	28.89
33 42 11 00-1210 LF 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	191.64	35.31
33 42 11 00-1211 LF 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	233.35	51.36
33 42 11 00-1212 LF 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	252.40	56.17
33 42 11 00-1213 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1189)		
33 42 11 00-1214 LF 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	87.00	13.60
33 42 11 00-1215 LF 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	110.15	17.65
33 42 11 00-1216 LF 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	126.31	20.86
33 42 11 00-1217 LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	142.83	24.08
33 42 11 00-1218 LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	167.33	27.28
33 42 11 00-1219 LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	183.54	28.89
33 42 11 00-1220 LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	220.00	35.31
33 42 11 00-1221 LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	264.26	51.36
33 42 11 00-1222 LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	285.87	56.17
33 42 11 00-1223 LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	305.24	60.18
33 42 11 00-1224 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	324.62	64.20
33 42 11 00-1225 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	344.51	68.21
33 42 11 00-1226 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	365.43	72.22
33 42 11 00-1227 Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0538)		
33 42 11 00-1228 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1227)		
33 42 11 00-1229 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1228)		
33 42 11 00-1230 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	33.25	8.32
For 1/2 Bituminous Coated And 40% Paved, Add	7.98	
33 42 11 00-1231 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	37.01	9.07
For 1/2 Bituminous Coated And 40% Paved, Add	9.52	
33 42 11 00-1232 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	42.34	9.82
For 1/2 Bituminous Coated And 40% Paved, Add	11.46	
33 42 11 00-1233 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	47.52	10.58
For 1/2 Bituminous Coated And 40% Paved, Add	13.21	
33 42 11 00-1234 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	61.94	13.60
For 1/2 Bituminous Coated And 40% Paved, Add	16.78	
33 42 11 00-1235 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	81.34	17.65
For 1/2 Bituminous Coated And 40% Paved, Add	21.64	
33 42 11 00-1236 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1228)		
33 42 11 00-1237 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	36.52	8.32
For 1/2 Bituminous Coated And 40% Paved, Add	8.27	
33 42 11 00-1238 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	40.98	9.07
For 1/2 Bituminous Coated And 40% Paved, Add	9.90	
33 42 11 00-1239 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	46.81	9.82
For 1/2 Bituminous Coated And 40% Paved, Add	11.78	
33 42 11 00-1240 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	52.68	10.58
For 1/2 Bituminous Coated And 40% Paved, Add	13.58	
33 42 11 00-1241 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	68.38	13.60
For 1/2 Bituminous Coated And 40% Paved, Add	17.20	
33 42 11 00-1242 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	89.00	17.65
For 1/2 Bituminous Coated And 40% Paved, Add	21.91	
33 42 11 00-1243 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	102.27	20.86
For 1/2 Bituminous Coated And 40% Paved, Add	26.10	
33 42 11 00-1244 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1228)		
33 42 11 00-1245 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	49.07	9.07
For 1/2 Bituminous Coated And 40% Paved, Add	9.07	
33 42 11 00-1246 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	56.40	9.82
For 1/2 Bituminous Coated And 40% Paved, Add	10.78	
33 42 11 00-1247 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	63.54	10.58
For 1/2 Bituminous Coated And 40% Paved, Add	12.37	
33 42 11 00-1248 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	81.93	13.60
For 1/2 Bituminous Coated And 40% Paved, Add	15.61	
33 42 11 00-1249 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	105.38	17.65
For 1/2 Bituminous Coated And 40% Paved, Add	19.63	
33 42 11 00-1250 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	121.37	20.86
For 1/2 Bituminous Coated And 40% Paved, Add	23.27	
33 42 11 00-1251 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	141.95	24.08
For 1/2 Bituminous Coated And 40% Paved, Add	27.70	
33 42 11 00-1252 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	158.54	27.28
For 1/2 Bituminous Coated And 40% Paved, Add	30.54	



Utilities			33	CS
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 11 00-1253	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1228)				
33 42 11 00-1254	LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	120.08 20.66		17.65	
33 42 11 00-1255	LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	138.52 24.42		20.86	
33 42 11 00-1256	LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	161.40 28.83		24.08	
33 42 11 00-1257	LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	180.54 31.92		27.28	
33 42 11 00-1258	LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	197.62 35.00		28.89	
33 42 11 00-1259	3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1227)				
33 42 11 00-1260	14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1259)				
33 42 11 00-1261	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	153.03 45.87		27.28	
33 42 11 00-1262	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	167.21 50.19		28.89	
33 42 11 00-1263	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	206.79 63.04		35.31	
33 42 11 00-1264	LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	249.70 67.58		51.36	
33 42 11 00-1265	LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	270.35 72.36		56.17	
33 42 11 00-1266	LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	288.84 77.15		60.18	
33 42 11 00-1267	LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	307.27 81.92		64.20	
33 42 11 00-1268	LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	326.31 86.70		68.21	
33 42 11 00-1269	12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1259)				
33 42 11 00-1270	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	199.86 57.04		28.89	
33 42 11 00-1271	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	242.99 69.71		35.31	
33 42 11 00-1272	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	289.12 74.98		51.36	
33 42 11 00-1273	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	312.91 80.42		56.17	
33 42 11 00-1274	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	334.62 85.91		60.18	
33 42 11 00-1275	LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	356.27 91.38		64.20	
33 42 11 00-1276	LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	378.46 96.82		68.21	
33 42 11 00-1277	LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	403.00 102.32		72.22	
33 42 11 00-1278	LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	429.29 107.78		80.25	
33 42 11 00-1279	LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	456.64 113.80		88.27	
33 42 11 00-1280	10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1259)				
33 42 11 00-1281	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	325.72 81.16		51.36	
33 42 11 00-1282	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	352.55 87.19		56.17	
33 42 11 00-1283	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	377.26 93.25		60.18	
33 42 11 00-1284	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	401.86 99.27		64.20	
33 42 11 00-1285	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	429.09 106.03		68.21	
33 42 11 00-1286	LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	454.60 111.35		72.22	
33 42 11 00-1287	LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	483.91 117.40		80.25	
33 42 11 00-1288	LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	513.98 123.83		88.27	
33 42 11 00-1289	LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	546.63 131.57		96.30	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
33 42 11 00-1290		125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1227)			
33 42 11 00-1291		12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1290)			
33 42 11 00-1292	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	292.82 73.79		51.36
33 42 11 00-1293	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	316.28 78.92		56.17
33 42 11 00-1294	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	337.44 84.00		60.18
33 42 11 00-1295	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	358.57 89.08		64.20
33 42 11 00-1296	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	380.36 94.18		68.21
33 42 11 00-1297	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	404.62 99.37		72.22
33 42 11 00-1298	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	430.64 104.54		80.25
33 42 11 00-1299	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	459.71 111.01		88.27
33 42 11 00-1300		10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1290)			
33 42 11 00-1301	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	333.36 81.85		51.36
33 42 11 00-1302	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	360.07 87.69		56.17
33 42 11 00-1303	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	384.50 93.50		60.18
33 42 11 00-1304	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	409.02 99.34		64.20
33 42 11 00-1305	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	433.58 104.99		68.21
33 42 11 00-1306	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	461.56 111.06		72.22
33 42 11 00-1307	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	490.95 116.98		80.25
33 42 11 00-1308	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	523.34 124.07		88.27
33 42 11 00-1309	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	553.62 130.78		96.30
33 42 11 00-1310		Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-0538)			
33 42 11 00-1311		1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1310)			
33 42 11 00-1312		18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1311)			
33 42 11 00-1313	LF	6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... For Bituminous Coated Pipe, Add	16.97 1.52		4.53
33 42 11 00-1314	LF	8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... For Bituminous Coated Pipe, Add	21.72 2.06		5.67
33 42 11 00-1315	LF	10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... For Bituminous Coated Pipe, Add	28.08 2.71		6.80
33 42 11 00-1316		16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1311)			
33 42 11 00-1317	LF	6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... For Bituminous Coated Pipe, Add	18.71 1.50		4.53
33 42 11 00-1318	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... For Bituminous Coated Pipe, Add	24.18 2.06		5.67
33 42 11 00-1319	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... For Bituminous Coated Pipe, Add	31.36 2.72		6.80
33 42 11 00-1320		2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1310)			
33 42 11 00-1321		16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1320)			
33 42 11 00-1322	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... For Bituminous Coated Pipe, Add	32.62 2.98		7.94
33 42 11 00-1323	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... For Bituminous Coated Pipe, Add	37.31 3.74		8.32
33 42 11 00-1324	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... For Bituminous Coated Pipe, Add	42.29 4.55		9.07



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST		
33 42 11 00-1325	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	48.47 5.43		9.82	
33 42 11 00-1326	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	54.03 6.16		10.58	
33 42 11 00-1327 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1320)					
33 42 11 00-1328	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	36.35 2.92		7.94	
33 42 11 00-1329	LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	42.07 3.68		8.32	
33 42 11 00-1330	LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	47.99 4.45		9.07	
33 42 11 00-1331	LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	55.07 5.29		9.82	
33 42 11 00-1332	LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	61.61 6.01		10.58	
33 42 11 00-1333	LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	80.30 7.70		13.60	
33 42 11 00-1334	LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	102.59 9.58		17.65	
33 42 11 00-1335 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1320)					
33 42 11 00-1336	LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	76.10 5.70		10.58	
33 42 11 00-1337	LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	98.35 7.26		13.60	
33 42 11 00-1338	LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	124.26 8.94		17.65	
33 42 11 00-1339	LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	142.96 10.52		20.86	
33 42 11 00-1340	LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	161.66 11.90		24.08	
33 42 11 00-1341	LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	189.98 14.12		27.28	
33 42 11 00-1342 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1320)					
33 42 11 00-1343	LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	147.36 8.79		17.65	
33 42 11 00-1344	LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	169.87 10.32		20.86	
33 42 11 00-1345	LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	192.50 11.71		24.08	
33 42 11 00-1346	LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	224.67 13.74		27.28	
33 42 11 00-1347	LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	246.93 15.14		28.89	
33 42 11 00-1348 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1310)					
33 42 11 00-1349 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1348)					
33 42 11 00-1350	LF 30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	79.12 8.79		13.60	
33 42 11 00-1351	LF 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	101.12 11.15		17.65	
33 42 11 00-1352	LF 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	115.49 13.70		20.86	
33 42 11 00-1353	LF 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	130.75 15.17		24.08	
33 42 11 00-1354	LF 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	154.17 17.65		27.28	
33 42 11 00-1355 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1348)					
33 42 11 00-1356	LF 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	88.63 11.15		13.60	
33 42 11 00-1357	LF 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	114.68 13.22		17.65	
33 42 11 00-1358	LF 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	131.22 14.92		20.86	
33 42 11 00-1359	LF 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	147.92 17.28		24.08	
33 42 11 00-1360	LF 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	174.28 19.05		27.28	
33 42 11 00-1361	LF 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	190.54 23.63		28.89	
33 42 11 00-1362	LF 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	231.63 27.25		35.31	
33 42 11 00-1363	LF 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	276.25 29.12		51.36	
33 42 11 00-1364	LF 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	298.12 35.31		56.17	
33 42 11 00-1365 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1348)					

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1366 LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	110.82	13.60
33 42 11 00-1367 LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	139.63	17.65
33 42 11 00-1368 LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	161.04	20.86
33 42 11 00-1369 LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	182.12	24.08
33 42 11 00-1370 LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	212.67	27.28
33 42 11 00-1371 LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	233.05	28.89
33 42 11 00-1372 LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	278.25	35.31
33 42 11 00-1373 LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	327.10	51.36
33 42 11 00-1374 LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	353.12	56.17
33 42 11 00-1375 LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	377.04	60.18
33 42 11 00-1376 LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	400.88	64.20
33 42 11 00-1377 LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	425.30	68.21
33 42 11 00-1378 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1348)		
33 42 11 00-1379 LF 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	277.76	28.89
33 42 11 00-1380 LF 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	325.54	35.31
33 42 11 00-1381 LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	378.64	51.36
33 42 11 00-1382 LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	408.91	56.17
33 42 11 00-1383 LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	437.00	60.18
33 42 11 00-1384 LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	465.08	64.20
33 42 11 00-1385 LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	493.72	68.21
33 42 11 00-1386 LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	524.68	72.22
33 42 11 00-1387 LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	557.40	80.25
33 42 11 00-1388 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1310) Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1389 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1388)		
33 42 11 00-1390 LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	55.09	9.07
33 42 11 00-1391 LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	59.27	9.82
33 42 11 00-1392 LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	71.03	10.58
33 42 11 00-1393 LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	82.01	12.09
33 42 11 00-1394 LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	92.14	13.60
33 42 11 00-1395 LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	102.44	15.12
33 42 11 00-1396 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1388)		
33 42 11 00-1397 LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	63.12	9.07
33 42 11 00-1398 LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	72.75	9.82
33 42 11 00-1399 LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	81.84	10.58
33 42 11 00-1400 LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	94.14	12.09
33 42 11 00-1401 LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	105.60	13.60
33 42 11 00-1402 LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	117.27	15.12
33 42 11 00-1403 LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	133.14	17.65
33 42 11 00-1404 LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	153.30	20.86
33 42 11 00-1405 LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	173.43	24.08
33 42 11 00-1406 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1388)		
33 42 11 00-1407 LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	131.91	13.60
33 42 11 00-1408 LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	146.15	15.12
33 42 11 00-1409 LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	164.69	17.65
33 42 11 00-1410 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	190.14	20.86
33 42 11 00-1411 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	215.55	24.08
33 42 11 00-1412 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	296.32	27.28
33 42 11 00-1413 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	326.03	28.89
33 42 11 00-1414 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1388)		
33 42 11 00-1415 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	301.35	24.08
33 42 11 00-1416 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	349.22	27.28
33 42 11 00-1417 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	384.87	28.89
33 42 11 00-1418 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	447.52	35.31
33 42 11 00-1419 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	510.75	51.36
33 42 11 00-1420 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	551.64	56.17
33 42 11 00-1421 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	590.03	60.18
33 42 11 00-1422 Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-0538)		
33 42 11 00-1423 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1422)		



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		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1424		16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch		
		(33 42 11 00-1423)		
33 42 11 00-1425	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	39.01	8.32
		For Bituminous Coated Pipe, Add	3.75	
33 42 11 00-1426	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	43.90	9.07
		For Bituminous Coated Pipe, Add	4.48	
33 42 11 00-1427	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	50.30	9.82
		For Bituminous Coated Pipe, Add	5.34	
33 42 11 00-1428		14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch		
		(33 42 11 00-1423)		
33 42 11 00-1429	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	43.77	8.32
		For Bituminous Coated Pipe, Add	3.74	
33 42 11 00-1430	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	48.47	9.07
		For Bituminous Coated Pipe, Add	4.31	
33 42 11 00-1431	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	56.90	9.82
		For Bituminous Coated Pipe, Add	5.29	
33 42 11 00-1432	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	64.09	10.58
		For Bituminous Coated Pipe, Add	6.07	
33 42 11 00-1433	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	82.78	13.60
		For Bituminous Coated Pipe, Add	7.68	
33 42 11 00-1434		12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch		
		(33 42 11 00-1423)		
33 42 11 00-1435	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	78.60	10.58
		For Bituminous Coated Pipe, Add	5.79	
33 42 11 00-1436	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	100.86	13.60
		For Bituminous Coated Pipe, Add	7.30	
33 42 11 00-1437	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	128.52	17.65
		For Bituminous Coated Pipe, Add	9.11	
33 42 11 00-1438	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	148.57	20.86
		For Bituminous Coated Pipe, Add	10.77	
33 42 11 00-1439		10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch		
		(33 42 11 00-1423)		
33 42 11 00-1440	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	151.59	17.65
		For Bituminous Coated Pipe, Add	8.79	
33 42 11 00-1441	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	175.52	20.86
		For Bituminous Coated Pipe, Add	10.37	
33 42 11 00-1442	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	203.85	24.08
		For Bituminous Coated Pipe, Add	12.15	
33 42 11 00-1443	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	228.40	27.28
		For Bituminous Coated Pipe, Add	13.52	
33 42 11 00-1444		3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1422)		
33 42 11 00-1445		14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1444)		
33 42 11 00-1446	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	178.01	27.28
33 42 11 00-1447	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	194.87	28.89
33 42 11 00-1448	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	236.98	35.31
33 42 11 00-1449		12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1444)		
33 42 11 00-1450	LF	60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	216.40	27.28
33 42 11 00-1451	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	237.38	28.89
33 42 11 00-1452	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	283.41	35.31
33 42 11 00-1453	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	332.66	51.36
33 42 11 00-1454	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	359.08	56.17
33 42 11 00-1455	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	383.39	60.18
33 42 11 00-1456		10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1444)		
33 42 11 00-1457	LF	66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	282.03	28.89
33 42 11 00-1458	LF	73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	330.52	35.31
33 42 11 00-1459	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	384.00	51.36
33 42 11 00-1460	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	414.66	56.17
33 42 11 00-1461	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	443.15	60.18
33 42 11 00-1462	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	471.60	64.20
33 42 11 00-1463		Corrugated Steel Pipe Fittings (33 42 11 00-0538)		
		Note: Equivalent pipe-arch sizes are approximate.		
33 42 11 00-1464		Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings (33 42 11 00-1463)		
		Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1465	EA	Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe).....	68.01	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1466	EA	Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	85.29	
33 42 11 00-1467	EA	Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	102.57	
33 42 11 00-1468	EA	Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	120.94	
33 42 11 00-1469	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	146.84	
33 42 11 00-1470	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	172.74	
33 42 11 00-1471	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	198.66	
33 42 11 00-1472	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	224.57	
33 42 11 00-1473	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	292.59	
33 42 11 00-1474	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	348.72	
33 42 11 00-1475	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	404.88	
33 42 11 00-1476	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	523.63	
33 42 11 00-1477	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	590.59	
33 42 11 00-1478	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	659.68	
33 42 11 00-1479	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	730.94	
33 42 11 00-1480	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	890.73	
33 42 11 00-1481	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	971.70	
33 42 11 00-1482	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,054.83	
33 42 11 00-1483	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,294.51	
33 42 11 00-1484	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,389.53	
33 42 11 00-1485	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,485.62	
33 42 11 00-1486	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,581.70	
33 42 11 00-1487	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,676.71	
33 42 11 00-1488	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,772.81	
33 42 11 00-1489	EA	Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,874.12	
33 42 11 00-1490	EA	Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,981.22	
33 42 11 00-1491	EA	Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,094.42	
33 42 11 00-1492		Fabricate Corrugated Steel Pipe Tees Or Laterals (33 42 11 00-1463)		
Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.				
33 42 11 00-1493	EA	Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	88.53	
33 42 11 00-1494	EA	Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	113.37	
33 42 11 00-1495	EA	Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	138.18	
33 42 11 00-1496	EA	Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	163.03	
33 42 11 00-1497	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	198.66	
33 42 11 00-1498	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	235.35	
33 42 11 00-1499	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	272.09	
33 42 11 00-1500	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	308.77	
33 42 11 00-1501	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	404.88	
33 42 11 00-1502	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	482.61	
33 42 11 00-1503	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	561.42	
33 42 11 00-1504	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	728.76	
33 42 11 00-1505	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	820.54	
33 42 11 00-1506	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	915.54	
33 42 11 00-1507	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,012.72	
33 42 11 00-1508	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,235.12	
33 42 11 00-1509	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,345.27	
33 42 11 00-1510	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,457.54	



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		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1511	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	1,793.30	
33 42 11 00-1512	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	1,921.79	
33 42 11 00-1513	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,050.27	
33 42 11 00-1514	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,179.82	
33 42 11 00-1515	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,309.39	
33 42 11 00-1516	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,437.85	
33 42 11 00-1517	EA	Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	2,573.48	
33 42 11 00-1518	EA	Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	2,716.64	
33 42 11 00-1519	EA	Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	2,867.75	
33 42 11 00-1520 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1463)				
Note: Applied to pipe tasks.				
33 42 11 00-1521	EA	Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	34.14	
33 42 11 00-1522	EA	Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	42.95	
33 42 11 00-1523	EA	Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	54.02	
33 42 11 00-1524	EA	Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	66.15	
33 42 11 00-1525	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	83.70	
33 42 11 00-1526	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	102.51	
33 42 11 00-1527	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	120.06	
33 42 11 00-1528	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	139.49	
33 42 11 00-1529	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	171.33	
33 42 11 00-1530	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	204.28	
33 42 11 00-1531	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	243.74	
33 42 11 00-1532	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	299.82	
33 42 11 00-1533	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	339.36	
33 42 11 00-1534	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	382.18	
33 42 11 00-1535	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	463.47	
33 42 11 00-1536	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	513.97	
33 42 11 00-1537	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	627.09	
33 42 11 00-1538	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	683.12	
33 42 11 00-1539	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	742.45	
33 42 11 00-1540	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	800.62	
33 42 11 00-1541	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	859.93	
33 42 11 00-1542	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	920.33	
33 42 11 00-1543	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	979.66	
33 42 11 00-1544	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,038.94	
33 42 11 00-1545	EA	Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,101.82	
33 42 11 00-1546	EA	Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,168.50	
33 42 11 00-1547	EA	Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,239.23	
33 42 11 00-1548 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1463)				
33 42 11 00-1549	EA	6" Coupling Band, Corrugated Metal Pipe Fitting	8.69	
		For Bituminous Coated, Add	2.52	
33 42 11 00-1550	EA	8" Coupling Band, Corrugated Metal Pipe Fitting	11.53	
		For Bituminous Coated, Add	3.34	
33 42 11 00-1551	EA	10" Coupling Band, Corrugated Metal Pipe Fitting	14.53	
		For Bituminous Coated, Add	4.21	
33 42 11 00-1552	EA	12" Coupling Band, Corrugated Metal Pipe Fitting	24.12	
		For Bituminous Coated, Add	6.99	
33 42 11 00-1553	EA	15" Coupling Band, Corrugated Metal Pipe Fitting	30.41	
		For Bituminous Coated, Add	8.82	
33 42 11 00-1554	EA	18" Coupling Band, Corrugated Metal Pipe Fitting	44.61	
		For Bituminous Coated, Add	12.94	
33 42 11 00-1555	EA	21" Coupling Band, Corrugated Metal Pipe Fitting	52.95	
		For Bituminous Coated, Add	15.36	
33 42 11 00-1556	EA	24" Coupling Band, Corrugated Metal Pipe Fitting	60.04	
		For Bituminous Coated, Add	17.41	
33 42 11 00-1557	EA	30" Coupling Band, Corrugated Metal Pipe Fitting	103.90	
		For Bituminous Coated, Add	30.13	
33 42 11 00-1558	EA	36" Coupling Band, Corrugated Metal Pipe Fitting	166.24	
		For Bituminous Coated, Add	39.90	
33 42 11 00-1559	EA	42" Coupling Band, Corrugated Metal Pipe Fitting	195.32	
		For Bituminous Coated, Add	46.88	
33 42 11 00-1560	EA	48" Coupling Band, Corrugated Metal Pipe Fitting	218.86	
		For Bituminous Coated, Add	52.53	
33 42 11 00-1561	EA	54" Coupling Band, Corrugated Metal Pipe Fitting	310.38	
		For Bituminous Coated, Add	74.49	
33 42 11 00-1562	EA	60" Coupling Band, Corrugated Metal Pipe Fitting	443.93	
		For Bituminous Coated, Add	79.91	
33 42 11 00-1563	EA	66" Coupling Band, Corrugated Metal Pipe Fitting	545.59	
		For Bituminous Coated, Add	98.21	
33 42 11 00-1564	EA	72" Coupling Band, Corrugated Metal Pipe Fitting	700.84	
		For Bituminous Coated, Add	98.12	
33 42 11 00-1565	EA	78" Coupling Band, Corrugated Metal Pipe Fitting	749.59	
		For Bituminous Coated, Add	104.94	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1566 EA 84" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	798.62 111.81	
33 42 11 00-1567 EA 90" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	847.40 118.64	
33 42 11 00-1568 EA 96" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	896.31 125.48	
33 42 11 00-1569 EA 102" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	945.34 132.35	
33 42 11 00-1570 EA 108" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	994.14 139.18	
33 42 11 00-1571 EA 114" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,177.45 141.29	
33 42 11 00-1572 EA 120" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,091.68 131.00	
33 42 11 00-1573 EA 126" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,140.33 136.84	
33 42 11 00-1574 EA 132" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,189.33 142.72	
33 42 11 00-1575 EA 138" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,238.39 148.61	

33 42 13 Stormwater Culverts ^(33 42)**33 42 13 13 Precast Concrete Stormwater Culverts ^(33 42 13)****33 42 13 13-0001 Precast Reinforced Concrete Box Culvert ^(33 42 13 13)**

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes excavation and backfill. Minimum length 6'-0".

33 42 13 13-0002 LF 4' x 2' Precast Reinforced Concrete Box Culvert	536.77	40.13
<i>For Each LF Of Cut-Off Section, Add</i>	21.47	
33 42 13 13-0003 LF 4' x 3' Precast Reinforced Concrete Box Culvert	643.30	40.13
<i>For Each LF Of Cut-Off Section, Add</i>	25.73	
33 42 13 13-0004 LF 5' x 3' Precast Reinforced Concrete Box Culvert	769.88	50.16
<i>For Each LF Of Cut-Off Section, Add</i>	30.80	
33 42 13 13-0005 LF 5' x 4' Precast Reinforced Concrete Box Culvert	790.17	50.16
<i>For Each LF Of Cut-Off Section, Add</i>	31.61	
33 42 13 13-0006 LF 5' x 5' Precast Reinforced Concrete Box Culvert	800.31	50.16
<i>For Each LF Of Cut-Off Section, Add</i>	32.01	
33 42 13 13-0007 LF 6' x 3' Precast Reinforced Concrete Box Culvert	824.63	52.16
<i>For Each LF Of Cut-Off Section, Add</i>	32.99	
33 42 13 13-0008 LF 6' x 4' Precast Reinforced Concrete Box Culvert	829.70	52.16
<i>For Each LF Of Cut-Off Section, Add</i>	33.19	
33 42 13 13-0009 LF 6' x 6' Precast Reinforced Concrete Box Culvert	921.00	52.16
<i>For Each LF Of Cut-Off Section, Add</i>	36.84	
33 42 13 13-0010 LF 7' x 4' Precast Reinforced Concrete Box Culvert	937.05	60.18
<i>For Each LF Of Cut-Off Section, Add</i>	37.48	
33 42 13 13-0011 LF 7' x 6' Precast Reinforced Concrete Box Culvert	980.38	81.85
<i>For Each LF Of Cut-Off Section, Add</i>	39.22	
33 42 13 13-0012 LF 8' x 2' Precast Reinforced Concrete Box Culvert	926.07	52.16
<i>For Each LF Of Cut-Off Section, Add</i>	37.04	
33 42 13 13-0013 LF 8' x 3' Precast Reinforced Concrete Box Culvert	942.12	60.18
<i>For Each LF Of Cut-Off Section, Add</i>	37.68	
33 42 13 13-0014 LF 8' x 4' Precast Reinforced Concrete Box Culvert	957.34	60.18
<i>For Each LF Of Cut-Off Section, Add</i>	38.29	
33 42 13 13-0015 LF 8' x 5' Precast Reinforced Concrete Box Culvert	1,145.58	80.25
<i>For Each LF Of Cut-Off Section, Add</i>	45.82	
33 42 13 13-0016 LF 8' x 6' Precast Reinforced Concrete Box Culvert	1,149.64	80.25
<i>For Each LF Of Cut-Off Section, Add</i>	45.99	
33 42 13 13-0017 LF 8' x 8' Precast Reinforced Concrete Box Culvert	1,257.74	100.31
<i>For Each LF Of Cut-Off Section, Add</i>	50.31	
33 42 13 13-0018 LF 9' x 4' Precast Reinforced Concrete Box Culvert	1,276.45	80.25
<i>For Each LF Of Cut-Off Section, Add</i>	51.06	
33 42 13 13-0019 LF 9' x 6' Precast Reinforced Concrete Box Culvert	1,331.80	100.31
<i>For Each LF Of Cut-Off Section, Add</i>	53.27	
33 42 13 13-0020 LF 10' x 3' Precast Reinforced Concrete Box Culvert	1,336.87	100.31
<i>For Each LF Of Cut-Off Section, Add</i>	53.47	
33 42 13 13-0021 LF 10' x 4' Precast Reinforced Concrete Box Culvert	1,651.37	100.31
<i>For Each LF Of Cut-Off Section, Add</i>	66.05	
33 42 13 13-0022 LF 10' x 5' Precast Reinforced Concrete Box Culvert	1,711.78	120.38
<i>For Each LF Of Cut-Off Section, Add</i>	68.47	
33 42 13 13-0023 LF 10' x 6' Precast Reinforced Concrete Box Culvert	1,732.08	120.38
<i>For Each LF Of Cut-Off Section, Add</i>	69.28	
33 42 13 13-0024 LF 10' x 7' Precast Reinforced Concrete Box Culvert	1,737.15	120.38
<i>For Each LF Of Cut-Off Section, Add</i>	69.49	
33 42 13 13-0025 LF 10' x 8' Precast Reinforced Concrete Box Culvert	1,744.25	120.38
<i>For Each LF Of Cut-Off Section, Add</i>	69.77	
33 42 13 13-0026 LF 12' x 3' Precast Reinforced Concrete Box Culvert	1,792.48	140.44
<i>For Each LF Of Cut-Off Section, Add</i>	71.70	
33 42 13 13-0027 LF 12' x 4' Precast Reinforced Concrete Box Culvert	1,792.48	140.44
<i>For Each LF Of Cut-Off Section, Add</i>	71.70	
33 42 13 13-0028 LF 12' x 6' Precast Reinforced Concrete Box Culvert	1,792.48	140.44
<i>For Each LF Of Cut-Off Section, Add</i>	71.70	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 13 13-0029	LF 12' x 8' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	1,792.48 71.70		140.44
33 42 13 13-0030	LF 16' x 10' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	2,664.51 106.58		160.50
33 42 13 13-0031	LF 24' x 10' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	3,780.45 151.22		160.50
33 42 13 13-0032	Precast Reinforced Concrete Box Culvert For Roadways (33 42 13 13) Note: AASHTO H/20, H/25 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes excavation and backfill. Minimum length 6'-0".			
33 42 13 13-0033	LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,344.87 53.79		40.13
33 42 13 13-0034	LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,517.33 60.69		40.13
33 42 13 13-0035	LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,709.80 68.39		50.16
33 42 13 13-0036	LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,882.26 75.29		50.16
33 42 13 13-0037	LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,054.71 82.19		50.16
33 42 13 13-0038	LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,886.28 75.45		52.16
33 42 13 13-0039	LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,058.73 82.35		52.16
33 42 13 13-0040	LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,403.64 96.15		52.16
33 42 13 13-0041	LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,247.24 89.89		60.18
33 42 13 13-0042	LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,635.44 105.42		81.85
33 42 13 13-0043	LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,058.73 82.35		52.16
33 42 13 13-0044	LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,247.24 89.89		60.18
33 42 13 13-0045	LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,419.69 96.79		60.18
33 42 13 13-0046	LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,632.23 105.29		80.25
33 42 13 13-0047	LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,804.68 112.19		80.25
33 42 13 13-0048	LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,189.72 127.59		100.31
33 42 13 13-0049	LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,832.91 113.32		80.25
33 42 13 13-0050	LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,241.62 129.66		100.31
33 42 13 13-0051	LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,204.10 128.16		100.31
33 42 13 13-0052	LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,408.87 136.35		100.31
33 42 13 13-0053	LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,653.77 146.15		120.38
33 42 13 13-0054	LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,858.55 154.34		120.38
33 42 13 13-0055	LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	4,063.36 162.53		120.38
33 42 13 13-0056	LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	4,268.13 170.73		120.38
33 42 13 13-0057	LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	4,238.57 169.54		140.44
33 42 13 13-0058	LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	4,471.33 178.85		140.44
33 42 13 13-0059	LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	4,936.95 197.48		140.44
33 42 13 13-0060	LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	5,402.56 216.10		140.44
33 42 13 13-0061	LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	6,477.38 259.10		160.50
33 42 13 13-0062	LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	8,236.34 329.45		160.50
33 42 23	Headwalls and Endwalls for Stormwater Piping (33 42)			
33 42 23 00-0001	Headwalls (33 42 23) Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.			
33 42 23 00-0002	Cast In Place Concrete Headwalls (33 42 23 00-0001)			
33 42 23 00-0003	Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002) Note: Sized by pipe diameter.			
33 42 23 00-0004	EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....	1,087.76		527.47
33 42 23 00-0005	EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....	1,373.35		562.64

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 23 00-0006 EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,787.95	736.97
33 42 23 00-0007 EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,770.48	1,054.94
33 42 23 00-0008 EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	3,839.12	1,406.59
33 42 23 00-0009 EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	4,784.85	1,854.04
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	6,643.42	2,557.42
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	7,893.64	3,014.09
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	9,502.92	3,669.41
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	11,421.71	4,441.87
33 42 23 00-0014 Precast Concrete Headwalls (33 42 23 00-0001)		
33 42 23 00-0015 EA 12" Pipe, Precast Concrete Headwall	551.51	136.04
33 42 23 00-0016 EA 15" Pipe, Precast Concrete Headwall	574.18	143.60
33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall	633.49	163.25
33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall	697.57	173.83
33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall	914.93	204.06
33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall	1,033.57	211.62
33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall	1,340.38	247.66
33 42 23 00-0022 EA 48" Pipe, Precast Concrete Headwall	1,474.64	272.85
33 42 23 00-0023 EA 54" Pipe, Precast Concrete Headwall	1,623.11	288.90
33 42 23 00-0024 EA 60" Pipe, Precast Concrete Headwall	1,833.77	288.90
33 42 23 00-0025 EA 72" Pipe, Precast Concrete Headwall	2,190.90	361.13
33 42 23 00-0026 EA 84" Pipe, Precast Concrete Headwall	3,061.65	433.36
33 42 23 00-0027 Precast Concrete Wingwalls (33 42 23 00-0001)		
33 42 23 00-0028 EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall	3,512.29	1,430.08
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0029 EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall	3,753.04	1,588.97
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0030 EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall	4,154.30	1,853.81
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0031 EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall	4,555.55	2,118.63
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0032 EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall	4,555.55	2,118.63
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0033 EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall	4,716.05	2,224.57
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0034 EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall	7,459.31	2,277.54
Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0035 EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall	7,700.07	2,436.43
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0036 Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)		
33 42 23 00-0037 EA 34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate	2,974.93	561.76
33 42 26 End Sections for Stormwater Piping (33 42)		
33 42 26 16 Corrugated Metal End Sections for Stormwater Piping (33 42 26)		
33 42 26 16-0001 Corrugated Metal Pipe End Sections (33 42 26 16)		
33 42 26 16-0002 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0003 Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004 EA 12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	193.83	52.90
33 42 26 16-0005 EA 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	223.46	56.68
33 42 26 16-0006 EA 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	259.07	60.47
33 42 26 16-0007 EA 21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	311.50	66.13
33 42 26 16-0008 EA 24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	344.61	71.80
33 42 26 16-0009 Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010 EA 30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	544.69	81.25
33 42 26 16-0011 EA 36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	704.64	96.30
33 42 26 16-0012 EA 42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,068.87	112.35
33 42 26 16-0013 EA 48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,302.97	128.40
33 42 26 16-0014 EA 54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,554.53	160.50
33 42 26 16-0015 EA 60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,817.05	192.60
33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0017 EA 12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	201.70	52.90
33 42 26 16-0018 EA 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	231.55	56.68
33 42 26 16-0019 EA 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	271.50	60.47
33 42 26 16-0020 EA 21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	326.43	66.13
33 42 26 16-0021 EA 24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	361.54	71.80



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	596.66	81.25
33 42 26 16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	767.85	96.30
33 42 26 16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,209.79	112.35
33 42 26 16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,484.83	128.40
33 42 26 16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,738.44	160.50
33 42 26 16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,399.53	192.60
33 42 26 16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,745.64	288.90
33 42 26 16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,227.96	385.20
33 42 26 16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,514.12	413.29
33 42 26 16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,806.99	441.39
33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33				
42 26 16-0002)				
33 42 26 16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	24.52	
33 42 26 16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	27.21	
33 42 26 16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	30.51	
33 42 26 16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	33.17	
33 42 26 16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	37.08	
33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	64.05	
33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	68.94	
33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	93.72	
33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	100.48	
33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	122.48	
33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	125.70	
33 42 26 16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	134.71	
33 42 26 16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	154.89	
33 42 26 16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	173.11	
33 42 26 16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	177.73	
33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)				
33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)				
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.				
33 42 26 16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	223.46	56.68
33 42 26 16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	259.07	60.47
33 42 26 16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	311.50	66.13
33 42 26 16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	344.61	71.80
33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)				
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.				
33 42 26 16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	216.67	56.68
33 42 26 16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	246.51	60.47
33 42 26 16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	275.55	66.13
33 42 26 16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	310.28	71.80
33 42 26 16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	446.83	81.25
33 42 26 16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	644.50	96.30
33 42 26 16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	991.50	112.35
33 42 26 16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,251.42	128.40
33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)				
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.				
33 42 26 16-0064	EA	17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	220.12	56.68
33 42 26 16-0065	EA	21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	254.00	60.47
33 42 26 16-0066	EA	24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	287.26	66.13
33 42 26 16-0067	EA	28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	324.16	71.80
33 42 26 16-0068	EA	35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	470.42	81.25
33 42 26 16-0069	EA	42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	676.68	96.30
33 42 26 16-0070	EA	49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,042.98	112.35
33 42 26 16-0071	EA	57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,310.66	128.40
33 42 26 16-0072	EA	64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,578.87	160.50
33 42 26 16-0073	EA	71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,069.77	192.60
33 42 26 16-0074	EA	77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,895.12	288.90
33 42 26 16-0075	EA	83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,225.97	385.20
33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End				
Section (33 42 26 16-0048)				
33 42 26 16-0077	EA	Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	27.21	
33 42 26 16-0078	EA	Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	30.51	
33 42 26 16-0079	EA	Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	33.17	
33 42 26 16-0080	EA	Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	37.08	
33 42 26 16-0081	EA	Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	64.05	
33 42 26 16-0082	EA	Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	68.94	
33 42 26 16-0083	EA	Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	93.72	
33 42 26 16-0084	EA	Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	104.38	
33 42 26 16-0085	EA	Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	122.48	
33 42 26 16-0086	EA	Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	127.25	

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0087	EA	Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	147.34		
33 42 26 16-0088	EA	Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	168.79		
33 42 26 16-0089		Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)			
33 42 26 16-0090		Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)			
33 42 26 16-0091	EA	12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	285.24	52.90	
33 42 26 16-0092	EA	15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	327.53	56.68	
33 42 26 16-0093	EA	18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	386.43	60.47	
33 42 26 16-0094	EA	21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	476.61	66.13	
33 42 26 16-0095	EA	24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	618.45	71.80	
33 42 26 16-0096	EA	30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	920.07	81.25	
33 42 26 16-0097	EA	36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,246.50	96.30	
33 42 26 16-0098	EA	36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	1,545.55	96.30	
33 42 26 16-0099	EA	42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	1,968.56	112.35	
33 42 26 16-0100	EA	48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,801.39	128.40	
33 42 26 16-0101	EA	54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,107.80	160.50	
33 42 26 16-0102	EA	60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	4,182.64	192.60	
33 42 26 16-0103	EA	66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	4,755.88	288.90	
33 42 26 16-0104	EA	72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,574.88	385.20	
33 42 26 16-0105	EA	78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,086.79	413.29	
33 42 26 16-0106	EA	84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,424.05	441.39	
33 42 26 16-0107	EA	90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	8,756.94	481.50	
33 42 26 16-0108	EA	96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	9,691.32	521.63	
33 42 26 16-0109		Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)			
33 42 26 16-0110	EA	Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	44.64		
33 42 26 16-0111	EA	Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	47.28		
33 42 26 16-0112	EA	Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	51.19		
33 42 26 16-0113	EA	Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	57.54		
33 42 26 16-0114	EA	Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	61.10		
33 42 26 16-0115	EA	Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	79.26		
33 42 26 16-0116	EA	Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	95.12		
33 42 26 16-0117	EA	Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	100.11		
33 42 26 16-0118	EA	Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	109.79		
33 42 26 16-0119	EA	Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	124.08		
33 42 26 16-0120	EA	Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	146.51		
33 42 26 16-0121	EA	Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	202.89		
33 42 26 16-0122	EA	Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	219.49		
33 42 26 16-0123	EA	Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	280.08		
33 42 26 16-0124	EA	Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	303.34		
33 42 26 16-0125	EA	Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	323.31		
33 42 26 16-0126	EA	Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	344.24		
33 42 26 16-0127	EA	Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	365.48		
33 42 26 16-0128		Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)			
33 42 26 16-0129		Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)			
33 42 26 16-0130	EA	17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	337.20	56.68	
33 42 26 16-0131	EA	21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	410.00	60.47	
33 42 26 16-0132	EA	24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	445.36	66.13	
33 42 26 16-0133	EA	28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	480.70	71.80	
33 42 26 16-0134	EA	35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	713.46	81.25	
33 42 26 16-0135	EA	42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,260.25	96.30	
33 42 26 16-0136	EA	42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,336.06	96.30	
33 42 26 16-0137	EA	49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,781.55	112.35	
33 42 26 16-0138	EA	57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,728.57	128.40	
33 42 26 16-0139	EA	64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,127.57	160.50	
33 42 26 16-0140	EA	71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,781.12	192.60	
33 42 26 16-0141	EA	77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	6,325.38	288.90	
33 42 26 16-0142	EA	83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	6,660.34	385.20	
33 42 26 16-0143	EA	87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,250.35	413.29	
33 42 26 16-0144	EA	95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,570.14	441.39	
33 42 26 16-0145	EA	103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,251.61	481.50	
33 42 26 16-0146	EA	112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,744.59	521.63	
33 42 26 16-0147		Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0129)			
33 42 26 16-0148	EA	Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	47.28		
33 42 26 16-0149	EA	Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	51.19		
33 42 26 16-0150	EA	Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	54.05		
33 42 26 16-0151	EA	Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	59.17		
33 42 26 16-0152	EA	Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	68.28		
33 42 26 16-0153	EA	Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	88.80		
33 42 26 16-0154	EA	Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	96.76		
33 42 26 16-0155	EA	Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	109.79		
33 42 26 16-0156	EA	Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	124.08		



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33 42 26 16-0157 EA Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	146.51	
33 42 26 16-0158 EA Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	185.17	
33 42 26 16-0159 EA Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	234.31	
33 42 26 16-0160 EA Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	317.15	
33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	359.77	
33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	377.13	
33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	391.47	
33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	408.87	
33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	430.03	56.68
33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	550.73	60.47
33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	672.40	66.13
33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	802.62	71.80
33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	850.45	81.25
33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,109.46	96.30
33 42 26 16-0173 EA 42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,744.19	112.35
33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0175 EA 3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	303.55	
33 42 26 16-0176 EA 3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	602.28	
33 42 26 16-0177 EA 3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	660.89	
33 42 26 16-0178 EA 3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	687.46	
33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0180 EA 15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	449.67	56.68
33 42 26 16-0181 EA 18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	586.04	60.47
33 42 26 16-0182 EA 21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	776.34	66.13
33 42 26 16-0183 EA 24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	910.64	71.80
33 42 26 16-0184 EA 30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,079.77	81.25
33 42 26 16-0185 EA 36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,311.86	96.30
33 42 26 16-0186 EA 42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,997.44	112.35
33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0188 EA 3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	586.44	
33 42 26 16-0189 EA 3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	623.06	
33 42 26 16-0190 EA 3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	685.45	
33 42 26 16-0191 EA 3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	721.47	
33 42 26 16-0192 Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42 26 16-0165)		
33 42 26 16-0193 EA Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section.....	52.48	
33 42 26 16-0194 EA Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section.....	58.74	
33 42 26 16-0195 EA Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section.....	63.92	
33 42 26 16-0196 EA Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section.....	71.30	
33 42 26 16-0197 EA Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section.....	106.19	
33 42 26 16-0198 EA Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section.....	113.96	
33 42 26 16-0199 EA Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section.....	152.36	
33 42 26 16-0200 Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0201 4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0202 EA 21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	509.36	60.47
33 42 26 16-0203 EA 24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	636.77	66.13
33 42 26 16-0204 EA 28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	752.16	71.80
33 42 26 16-0205 EA 35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,404.48	81.25
33 42 26 16-0206 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200)		
Note: Includes nut and bolt set.		
33 42 26 16-0207 EA 3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section.....	360.84	
33 42 26 16-0208 EA 3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section.....	652.24	
33 42 26 16-0209 EA 3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section.....	687.46	
33 42 26 16-0210 EA 3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,008.98	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 26 16-0211 Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)

33 42 26 16-0212	EA	Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section.....	53.10	
33 42 26 16-0213	EA	Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section.....	60.15	
33 42 26 16-0214	EA	Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section.....	65.55	
33 42 26 16-0215	EA	Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section.....	78.48	

33 42 26 19 Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping (33 42 26)
33 42 26 19-0001 Corrugated High Density Polyethylene (HDPE) Pipe End Sections (33 42 26 19)

33 42 26 19-0002	EA	4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	45.85	15.45
33 42 26 19-0003	EA	6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	85.24	23.17
33 42 26 19-0004	EA	8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	115.66	28.96
33 42 26 19-0005	EA	10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	182.17	46.34
33 42 26 19-0006	EA	12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	216.25	52.13
33 42 26 19-0007	EA	15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	229.57	55.99
33 42 26 19-0008	EA	18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	273.34	61.78
33 42 26 19-0009	EA	24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	352.97	73.36
33 42 26 19-0010	EA	30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	865.70	83.02
33 42 26 19-0011	EA	36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	962.75	92.67

33 42 26 23 Concrete End Sections for Stormwater Piping (33 42 26)
33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)
33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)

33 42 26 23-0003	EA	12" Diameter Pipe, Precast Concrete End Section	440.59	88.65
33 42 26 23-0004	EA	15" Diameter Pipe, Precast Concrete End Section	588.36	109.74
33 42 26 23-0005	EA	18" Diameter Pipe, Precast Concrete End Section	729.52	138.92
33 42 26 23-0006	EA	21" Diameter Pipe, Precast Concrete End Section	839.41	166.12
33 42 26 23-0007	EA	24" Diameter Pipe, Precast Concrete End Section	897.41	192.27
33 42 26 23-0008	EA	27" Diameter Pipe, Precast Concrete End Section	1,133.53	239.14
33 42 26 23-0009	EA	30" Diameter Pipe, Precast Concrete End Section	1,417.04	359.20
33 42 26 23-0010	EA	36" Diameter Pipe, Precast Concrete End Section	1,752.83	453.26
33 42 26 23-0011	EA	42" Diameter Pipe, Precast Concrete End Section	2,127.36	568.58
33 42 26 23-0012	EA	48" Diameter Pipe, Precast Concrete End Section	2,337.55	641.21
33 42 26 23-0013	EA	54" Diameter Pipe, Precast Concrete End Section	2,555.85	718.25
33 42 26 23-0014	EA	60" Diameter Pipe, Precast Concrete End Section	2,779.92	798.50
33 42 26 23-0015	EA	66" Diameter Pipe Precast Concrete End Section.....	2,724.04	644.31
33 42 26 23-0016	EA	72" Diameter Pipe Precast Concrete End Section.....	3,142.52	805.37
33 42 26 23-0017	EA	78" Diameter Pipe Precast Concrete End Section.....	3,752.78	1,006.70
33 42 26 23-0018	EA	84" Diameter Pipe Precast Concrete End Section.....	4,446.18	1,208.04

33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)

33 42 26 23-0020	EA	12" Diameter Pipe, Flared Precast Concrete End Section	547.71	93.49
33 42 26 23-0021	EA	15" Diameter Pipe, Flared Precast Concrete End Section	660.64	116.52
33 42 26 23-0022	EA	18" Diameter Pipe, Flared Precast Concrete End Section	804.04	147.50
33 42 26 23-0023	EA	21" Diameter Pipe, Flared Precast Concrete End Section	921.35	176.39
33 42 26 23-0024	EA	24" Diameter Pipe, Flared Precast Concrete End Section	1,120.59	204.15
33 42 26 23-0025	EA	27" Diameter Pipe, Flared Precast Concrete End Section	1,377.85	326.06
33 42 26 23-0026	EA	30" Diameter Pipe, Flared Precast Concrete End Section	1,469.90	448.93
33 42 26 23-0027	EA	36" Diameter Pipe, Flared Precast Concrete End Section	1,972.70	566.57
33 42 26 23-0028	EA	42" Diameter Pipe, Flared Precast Concrete End Section	2,377.47	710.86
33 42 26 23-0029	EA	48" Diameter Pipe, Flared Precast Concrete End Section	2,583.33	801.71
33 42 26 23-0030	EA	54" Diameter Pipe, Flared Precast Concrete End Section	2,889.89	897.93
33 42 26 23-0031	EA	60" Diameter Pipe, Flared Precast Concrete End Section	3,202.82	997.37
33 42 26 23-0032	EA	66" Diameter Pipe, Flared Precast Concrete End Section	3,730.86	1,149.12
33 42 26 23-0033	EA	72" Diameter Pipe, Flared Precast Concrete End Section	4,332.48	1,282.58
33 42 26 23-0034	EA	78" Diameter Pipe, Flared Precast Concrete End Section	4,909.05	1,442.84
33 42 26 23-0035	EA	84" Diameter Pipe, Flared Precast Concrete End Section	5,642.49	1,602.94

33 42 31 Stormwater Area Drains and Inlets (33 42)
33 42 31 00-0001 Storm Drains (33 42 31)

See CSI section 33 05 61 00-0001 for manhole structures.

33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001)

Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.

33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002)

Note: Inside dimensions.

33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)

33 42 31 00-0005	EA	2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,443.01	259.44
33 42 31 00-0006	EA	3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,726.33	303.98
33 42 31 00-0007	EA	4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,009.67	348.44
33 42 31 00-0008	EA	5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,292.99	392.99



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0009 EA 6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,576.32	437.45
33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0011 EA 2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,887.36	257.88
33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,327.81	343.83
33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,959.30	468.86
33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,614.31	547.01
33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,116.92	625.15
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,030.53	281.32
33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,814.33	390.72
33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,423.78	507.93
33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,953.33	586.08
33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,011.03	750.18
33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)		
Note: Inside span, overall depth.		
33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0024 EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	1,749.56	313.67
33 42 31 00-0025 EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	1,856.50	333.52
33 42 31 00-0026 EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,019.77	358.21
33 42 31 00-0027 EA 4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,281.73	396.50
33 42 31 00-0028 EA 5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,453.26	422.05
33 42 31 00-0029 EA 5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,570.76	442.60
33 42 31 00-0030 EA 6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,742.44	468.17
33 42 31 00-0031 EA 6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,857.24	488.79
33 42 31 00-0032 EA 7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,030.00	514.27
33 42 31 00-0033 EA 7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,146.42	534.90
33 42 31 00-0034 EA 8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,318.04	560.45
33 42 31 00-0035 VLF >8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	414.77	70.02
33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0037 EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,016.38	362.59
33 42 31 00-0038 EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,151.54	388.07
33 42 31 00-0039 EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,322.44	413.62
33 42 31 00-0040 EA 4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	2,628.56	458.08
33 42 31 00-0041 EA 5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	2,818.18	487.00
33 42 31 00-0042 EA 5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	2,953.60	510.98
33 42 31 00-0043 EA 6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,145.78	539.90
33 42 31 00-0044 EA 6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,281.21	563.88
33 42 31 00-0045 EA 7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,471.82	592.80
33 42 31 00-0046 EA 7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,607.73	616.80
33 42 31 00-0047 EA 8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,798.43	645.70
33 42 31 00-0048 VLF >8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	474.82	80.73
33 42 31 00-0049 4' x 4', Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0050 EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,301.88	414.79
33 42 31 00-0051 EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,444.68	441.12
33 42 31 00-0052 EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,642.72	472.30
33 42 31 00-0053 EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	2,993.48	523.02
33 42 31 00-0054 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,203.66	555.30
33 42 31 00-0055 EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,358.50	582.72
33 42 31 00-0056 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,568.69	615.00
33 42 31 00-0057 EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,723.04	642.43
33 42 31 00-0058 EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,933.22	674.70
33 42 31 00-0059 EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,088.07	702.13
33 42 31 00-0060 EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,298.24	734.48
33 42 31 00-0061 VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	537.25	91.82
33 42 31 00-0062 4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0063 EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,659.28	480.98
33 42 31 00-0064 EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,825.50	508.17
33 42 31 00-0065 EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,045.52	543.33
33 42 31 00-0066 EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,445.55	601.00
33 42 31 00-0067 EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,679.72	637.43
33 42 31 00-0068 EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,858.60	668.92
33 42 31 00-0069 EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,093.23	705.33
33 42 31 00-0070 EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,272.13	736.90
33 42 31 00-0071 EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,506.29	773.32
33 42 31 00-0072 EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,684.10	804.81
33 42 31 00-0073 EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,919.82	841.22
33 42 31 00-0074 VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	615.02	105.19

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 31 00-0075		5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0076	EA	4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	3,413.61	610.07
33 42 31 00-0077	EA	4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	3,859.14	674.15
33 42 31 00-0078	EA	5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,114.17	714.08
33 42 31 00-0079	EA	5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,312.85	749.09
33 42 31 00-0080	EA	6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,565.26	788.95
33 42 31 00-0081	EA	6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,765.02	823.95
33 42 31 00-0082	EA	7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,018.97	863.88
33 42 31 00-0083	EA	7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,216.12	898.89
33 42 31 00-0084	EA	8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,471.15	938.75
33 42 31 00-0085	VLF	>8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	902.77	117.37
33 42 31 00-0086		5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0087	EA	4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,799.23	680.32
33 42 31 00-0088	EA	4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,426.52	770.11
33 42 31 00-0089	EA	5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,709.35	814.50
33 42 31 00-0090	EA	5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,935.82	854.27
33 42 31 00-0091	EA	6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,220.19	898.97
33 42 31 00-0092	EA	6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,447.74	938.75
33 42 31 00-0093	EA	7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,730.56	983.44
33 42 31 00-0094	EA	7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,957.04	1,023.22
33 42 31 00-0095	EA	8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,239.86	1,067.92
33 42 31 00-0096	VLF	>8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	779.98	133.47
33 42 31 00-0097		6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0098	EA	4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	4,205.44	753.86
33 42 31 00-0099	EA	4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	4,896.53	852.39
33 42 31 00-0100	EA	5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,200.69	900.69
33 42 31 00-0101	EA	5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,448.04	944.06
33 42 31 00-0102	EA	6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,751.13	992.35
33 42 31 00-0103	EA	6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,000.01	1,035.72
33 42 31 00-0104	EA	7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,302.63	1,084.01
33 42 31 00-0105	EA	7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,550.45	1,127.38
33 42 31 00-0106	EA	8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,854.61	1,175.68
33 42 31 00-0107	VLF	>8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	856.87	146.99
33 42 31 00-0108		6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109	EA	4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,629.57	830.90
33 42 31 00-0110	EA	4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,557.27	962.66
33 42 31 00-0111	EA	5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,891.78	1,016.11
33 42 31 00-0112	EA	5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,170.94	1,064.63
33 42 31 00-0113	EA	6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,505.46	1,118.01
33 42 31 00-0114	EA	6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,784.62	1,166.62
33 42 31 00-0115	EA	7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,119.14	1,219.98
33 42 31 00-0116	EA	7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,398.30	1,268.52
33 42 31 00-0117	EA	8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,734.37	1,321.96
33 42 31 00-0118	VLF	>8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	966.76	165.28
33 42 31 00-0119		7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0120	EA	4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	5,072.85	911.32
33 42 31 00-0121	EA	4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	6,087.74	1,055.11
33 42 31 00-0122	EA	5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	6,444.05	1,112.30
33 42 31 00-0123	EA	5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	6,743.56	1,164.50
33 42 31 00-0124	EA	6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,100.87	1,221.63
33 42 31 00-0125	EA	6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,400.38	1,273.90
33 42 31 00-0126	EA	7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,756.70	1,331.03
33 42 31 00-0127	EA	7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,057.28	1,383.31
33 42 31 00-0128	EA	8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,413.53	1,440.43
33 42 31 00-0129	VLF	>8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,051.73	180.04
33 42 31 00-0130		7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0131	EA	4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,730.26	1,022.83
33 42 31 00-0132	EA	4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,640.08	1,151.30
33 42 31 00-0133	EA	5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,016.67	1,212.17
33 42 31 00-0134	EA	5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,339.06	1,268.12
33 42 31 00-0135	EA	6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,716.63	1,329.00
33 42 31 00-0136	EA	6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,039.03	1,384.95
33 42 31 00-0137	EA	7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,415.61	1,445.82
33 42 31 00-0138	EA	7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,738.00	1,501.77
33 42 31 00-0139	EA	8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,115.66	1,562.64
33 42 31 00-0140	VLF	>8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,139.43	195.36



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0142 EA 4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	6,230.29	1,112.85
33 42 31 00-0143 EA 4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	7,212.59	1,251.24
33 42 31 00-0144 EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	7,610.60	1,315.79
33 42 31 00-0145 EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	7,954.80	1,375.49
33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	8,352.71	1,440.04
33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	8,694.77	1,499.74
33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,094.85	1,564.29
33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,439.06	1,623.99
33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,830.03	1,688.54
33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,229.62	211.07
33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins	564.64	164.02
33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins	780.03	246.02
33 42 31 00-0156 EA 8' Deep, 1'-6" Diameter Precast Catch Basins	983.93	319.83
33 42 31 00-0157 EA 10' Deep, 1'-6" Diameter Precast Catch Basins	1,180.87	378.06
33 42 31 00-0158 EA 12' Deep, 1'-6" Diameter Precast Catch Basins	1,449.58	479.75
33 42 31 00-0159 EA 14' Deep, 1'-6" Diameter Precast Catch Basins	1,656.71	553.56
33 42 31 00-0160 VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins	114.95	36.90
33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0162 EA 4' Deep, 2' Diameter Precast Catch Basin	644.78	182.47
33 42 31 00-0163 EA 6' Deep, 2' Diameter Precast Catch Basin	885.75	270.63
33 42 31 00-0164 EA 8' Deep, 2' Diameter Precast Catch Basin	1,113.07	356.73
33 42 31 00-0165 EA 10' Deep, 2' Diameter Precast Catch Basin	1,331.91	416.20
33 42 31 00-0166 EA 12' Deep, 2' Diameter Precast Catch Basin	1,644.18	533.06
33 42 31 00-0167 EA 14' Deep, 2' Diameter Precast Catch Basin	1,876.81	615.06
33 42 31 00-0168 VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin	130.24	44.28
33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin	860.07	215.27
33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin	1,165.37	318.19
33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin	1,456.82	420.30
33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin	1,814.44	524.85
33 42 31 00-0174 EA 12' Deep, 3' Diameter Precast Catch Basin	2,140.64	625.73
33 42 31 00-0175 EA 14' Deep, 3' Diameter Precast Catch Basin	2,454.23	728.24
33 42 31 00-0176 VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	168.17	52.02
33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0178 EA 4' Deep, 4' Diameter Precast Catch Basin	1,047.69	239.46
33 42 31 00-0179 EA 6' Deep, 4' Diameter Precast Catch Basin	1,356.85	328.04
33 42 31 00-0180 EA 8' Deep, 4' Diameter Precast Catch Basin	1,798.68	492.05
33 42 31 00-0181 EA 10' Deep, 4' Diameter Precast Catch Basin	2,244.34	615.06
33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin	2,649.37	738.08
33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin	3,039.90	861.09
33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	207.76	61.51
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin	1,408.51	328.04
33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin	1,913.49	492.05
33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin	2,420.90	656.07
33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin	2,955.50	820.09
33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin	3,481.05	984.11
33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin	4,048.56	1,148.11
33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	276.38	82.00
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin	2,057.01	492.05
33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin	2,764.19	738.08
33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin	3,524.27	984.11
33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin	4,390.99	1,230.13
33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin	5,229.00	1,476.15
33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin	6,044.72	1,722.18
33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	411.72	123.02
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)		
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat	1,158.37	533.06
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin	594.57	65.61

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	322.56	69.71
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring.....	397.32	102.51
For Each Additional Inch In Height, Add	49.12	
33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring.....	467.94	123.02
For Each Additional Inch In Height, Add	57.47	
33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring.....	545.89	143.51
For Each Additional Inch In Height, Add	67.09	
33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring.....	674.52	205.02
For Each Additional Inch In Height, Add	78.29	
33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade.....	492.02	
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)		
33 42 31 00-0211 EA Up To 860 Square Inch, Up To 2" Rise, Catch Basin Riser.....	258.42	
33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	285.60	
33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	317.83	
33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	277.82	
33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	306.83	
33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	342.52	
33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	305.97	
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	331.85	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	367.70	
33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)		
Note: Inside span.		
33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	3,682.40	618.75
33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	4,200.77	706.11
33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	4,776.49	801.37
33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	5,735.30	961.33
33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	6,953.09	1,160.59
33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)		
33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
Note: Yard inlet.		
33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)		
33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	527.68	57.41
33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	621.10	69.71
33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	714.52	82.00
33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	808.95	94.82
33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)		
33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	138.52	
33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	219.62	
33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	308.95	
33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	398.27	
33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	487.57	
33 42 31 00-0240 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	576.89	
33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)		
33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,086.44	160.50
33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,224.77	185.58
33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,363.11	210.66
33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,501.56	235.80
33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,640.01	260.94
33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,778.47	286.07
33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,916.91	311.21
33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)		
33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	271.83	
33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	428.86	
33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	469.55	
33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	598.73	
33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	727.92	
33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	850.07	
33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	988.40	
33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,126.74	
33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,265.19	
33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,403.64	
33 42 31 00-0261 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,542.10	
33 42 31 00-0262 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,680.54	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0263		30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0264		30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)		
33 42 31 00-0265	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,062.40	176.55
33 42 31 00-0266	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,201.74	204.14
33 42 31 00-0267	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,341.08	231.72
33 42 31 00-0268	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,480.56	259.38
33 42 31 00-0269	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,620.03	287.03
33 42 31 00-0270	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,759.51	314.68
33 42 31 00-0271	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,898.97	342.34
33 42 31 00-0272		30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)		
33 42 31 00-0273	EA	6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	269.90	
33 42 31 00-0274	EA	12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	421.01	
33 42 31 00-0275	EA	18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	462.77	
33 42 31 00-0276	EA	24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	589.48	
33 42 31 00-0277	EA	30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	716.17	
33 42 31 00-0278	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	842.07	
33 42 31 00-0279	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	979.20	
33 42 31 00-0280	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,115.53	
33 42 31 00-0281	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,252.67	
33 42 31 00-0282	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,389.01	
33 42 31 00-0283	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,526.14	
33 42 31 00-0284	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,663.28	
33 42 31 00-0285		42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0286		42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)		
33 42 31 00-0287	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,258.24	192.60
33 42 31 00-0288	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,421.68	223.90
33 42 31 00-0289	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,585.13	256.00
33 42 31 00-0290	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,747.76	287.30
33 42 31 00-0291	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,911.20	319.40
33 42 31 00-0292	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,074.64	350.70
33 42 31 00-0293	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,237.27	382.00
33 42 31 00-0294		42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)		
33 42 31 00-0295	EA	6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	296.11	
33 42 31 00-0296	EA	12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	471.85	
33 42 31 00-0297	EA	18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	514.79	
33 42 31 00-0298	EA	24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	657.77	
33 42 31 00-0299	EA	30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	800.74	
33 42 31 00-0300	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	943.71	
33 42 31 00-0301	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,097.52	
33 42 31 00-0302	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,251.33	
33 42 31 00-0303	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,405.14	
33 42 31 00-0304	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,558.95	
33 42 31 00-0305	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,712.76	
33 42 31 00-0306	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,866.57	
33 42 31 00-0307		42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)		
33 42 31 00-0308	EA	42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	717.22	120.38
33 42 31 00-0309		48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0310		48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)		
33 42 31 00-0311	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	1,737.42	214.01
33 42 31 00-0312	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	1,948.72	249.18
33 42 31 00-0313	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,160.02	284.35
33 42 31 00-0314	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,371.06	319.40
33 42 31 00-0315	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,582.11	354.45
33 42 31 00-0316	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,793.16	389.50
33 42 31 00-0317	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,004.20	424.54
33 42 31 00-0318		48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)		
33 42 31 00-0319	EA	6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	293.43	
33 42 31 00-0320	EA	12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	455.78	
33 42 31 00-0321	EA	18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	663.61	
33 42 31 00-0322	EA	24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	871.43	
33 42 31 00-0323	EA	30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,065.88	
33 42 31 00-0324	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,273.71	
33 42 31 00-0325	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,485.01	
33 42 31 00-0326	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,696.31	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0327 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,907.35	
33 42 31 00-0328 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,118.40	
33 42 31 00-0329 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,329.45	
33 42 31 00-0330 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,540.49	
33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab	779.08	130.41
33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	1,964.83	269.64
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,199.47	314.69
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,434.11	359.74
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,668.25	404.55
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,902.40	449.35
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,136.56	494.15
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,370.71	538.96
33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	324.31	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	491.31	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	725.75	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	960.17	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,172.12	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,406.54	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,641.19	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,875.83	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,109.97	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,344.12	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,578.27	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,812.43	
33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0333)		
33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab	866.82	146.06
33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0357)		
33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	2,568.04	363.54
33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	2,872.19	423.73
33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,176.36	483.11
33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,479.71	543.30
33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,783.87	602.69
33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,087.23	662.08
33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,392.19	722.26
33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0357)		
33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	443.79	
33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	664.50	
33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	963.03	
33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,261.58	
33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,536.84	
33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,835.39	
33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,139.54	
33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,443.71	
33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,747.06	
33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,051.22	
33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,354.58	
33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,658.74	
33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0357)		
33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab	1,170.31	160.50
33 42 31 00-0381 Frames And Grates For Inlets (33 42 31 00-0226)		
33 42 31 00-0382 Inlet Frames And Grates (33 42 31 00-0381)		
33 42 31 00-0383 EA 24" x 24", Heavy Duty Inlet Grate	245.99	37.79
Note: For type A, B, D, or E inlets.		
33 42 31 00-0384 EA 47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT).....	306.57	37.79
Note: For type A, B, D, or E inlets.		
33 42 31 00-0385 EA 47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT).....	306.57	37.79
Note: Includes legend: Dump No Waste "Drains To Waterways".		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0386	EA	Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT)	306.57	37.79	
Note: Legend: Dump No Waste "Drains to Waterways"					
33 42 31 00-0387	EA	Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362)	334.07	37.79	
33 42 31 00-0388	EA	Type B Inlet Dirt Plate (US Foundry 5217 BK)	272.16	75.57	
33 42 31 00-0389	EA	Back Plate For Type B Inlets (Campbell Foundry 2548-1942)	310.66	75.57	
33 42 31 00-0390	EA	Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4)	386.95	94.48	
Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".					
33 42 31 00-0391	EA	1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	337.45	94.48	
33 42 31 00-0392	EA	2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	342.95	94.48	
33 42 31 00-0393	EA	2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	353.95	94.48	
33 42 31 00-0394	EA	3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	364.95	94.48	
33 42 31 00-0395	EA	2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	353.95	94.48	
33 42 31 00-0396	EA	2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	364.95	94.48	
33 42 31 00-0397	EA	3" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	375.95	94.48	
33 42 31 00-0398	EA	2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	518.95	94.48	
33 42 31 00-0399	EA	2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	540.95	94.48	
33 42 31 00-0400	EA	3" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	562.95	94.48	
33 42 31 00-0401	EA	2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701)	397.95	94.48	
33 42 31 00-0402	EA	6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6)	364.95	94.48	
33 42 31 00-0403	EA	8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8)	364.95	94.48	
33 42 31 00-0404	EA	6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6)	711.25	94.48	
33 42 31 00-0405	EA	8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8)	711.25	94.48	
33 42 31 00-0406	EA	Safety Bars For Type B And D Inlets (General Foundries 5218 SB)	317.84	103.92	
33 42 31 00-0407	EA	6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648)	422.34	103.92	
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.					
33 42 31 00-0408	EA	8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848)	422.34	103.92	
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.					
33 42 31 00-0409	EA	10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048)	460.84	103.92	
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.					
33 42 31 00-0410	EA	Type B Inlet Frame (US Foundry 5216 FRM)	521.34	103.92	
33 42 31 00-0411	EA	Type D Inlet Frame (US Foundry 2999 FRM)	455.34	103.92	
33 42 31 00-0412	EA	Type B Inlet Frame (Campbell Foundry 2618-0202)	625.84	103.92	
33 42 31 00-0413	EA	Type D Inlet Frame (Campbell Foundry 2617-0002)	559.84	103.92	
33 42 31 00-0414	EA	Type A Inlet, Single Frame And Grate (US Foundry 52340)	731.32	151.16	
33 42 31 00-0415	EA	Type E Inlet, Single Frame And Grate (US Foundry 52342)	1,127.32	151.16	
33 42 31 00-0416	EA	Type A Inlet, Single Frame And Grate (General Foundries 52340)	714.82	151.16	
33 42 31 00-0417	EA	Type E Inlet, Double Frame And Grate (General Foundries 52342)	1,075.62	151.16	
33 42 31 00-0418	EA	Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340)	1,184.97	226.73	
33 42 31 00-0419	EA	Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084)	1,272.67	302.32	
33 42 31 00-0420	EA	6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186)	1,358.12	302.32	
33 42 31 00-0421	EA	8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198)	1,358.12	302.32	
33 42 31 00-0422	EA	6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266)	1,220.62	302.32	
33 42 31 00-0423	EA	8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268)	1,220.62	302.32	
33 42 31 00-0424	EA	Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198)	1,402.12	302.32	
33 42 31 00-0425	Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)				
33 42 31 00-0426	Type OS Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0427	EA	3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	2,312.70		
33 42 31 00-0428	EA	4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	2,688.89		
33 42 31 00-0429	EA	5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,038.94		
33 42 31 00-0430	EA	6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,362.89		
33 42 31 00-0431	EA	7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,660.71		
33 42 31 00-0432	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,932.42		
33 42 31 00-0433	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	5,350.89		
33 42 31 00-0434	EA	10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	6,240.69		
33 42 31 00-0435	EA	12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,063.20		
33 42 31 00-0436	EA	14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,820.05		
33 42 31 00-0437	EA	16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	8,552.10		
33 42 31 00-0438	EA	18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,227.19		
33 42 31 00-0439	EA	20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,845.35		
33 42 31 00-0440	Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0441	EA	3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,149.21		
33 42 31 00-0442	EA	4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,501.51		
33 42 31 00-0443	EA	5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,827.69		
33 42 31 00-0444	EA	6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,127.74		
33 42 31 00-0445	EA	7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,400.86		
33 42 31 00-0446	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,648.67		
33 42 31 00-0447	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,025.02		
33 42 31 00-0448	EA	10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,894.32		
33 42 31 00-0449	EA	12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,696.33		
33 42 31 00-0450	EA	14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,431.87		
33 42 31 00-0451	EA	16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,146.35		
33 42 31 00-0452	EA	18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,803.90		
33 42 31 00-0453	EA	20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,404.49		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
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 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 31 00-0454		Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0455	EA	3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,920.12
33 42 31 00-0456	EA	4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,250.58
33 42 31 00-0457	EA	5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,554.09
33 42 31 00-0458	EA	6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,832.32
33 42 31 00-0459	EA	7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,083.59
33 42 31 00-0460	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,308.76
33 42 31 00-0461	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,699.15
33 42 31 00-0462	EA	10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,547.12
33 42 31 00-0463	EA	12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,329.43
33 42 31 00-0464	EA	14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,044.48
33 42 31 00-0465	EA	16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,740.60
33 42 31 00-0466	EA	18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,380.60
33 42 31 00-0467	EA	20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,962.83
33 42 31 00-0468		Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0469	EA	3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,019.06
33 42 31 00-0470	EA	4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,317.43
33 42 31 00-0471	EA	5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,589.69
33 42 31 00-0472	EA	6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,835.83
33 42 31 00-0473	EA	7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,055.84
33 42 31 00-0474	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,249.74
33 42 31 00-0475	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,654.17
33 42 31 00-0476	EA	10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,473.02
33 42 31 00-0477	EA	12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,225.41
33 42 31 00-0478	EA	14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,911.33
33 42 31 00-0479	EA	16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,583.35
33 42 31 00-0480	EA	18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,197.59
33 42 31 00-0481	EA	20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,754.89
33 42 31 00-0482		Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0483	EA	3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,249.75
33 42 31 00-0484	EA	4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,484.15
33 42 31 00-0485	EA	5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,692.45
33 42 31 00-0486	EA	6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,874.61
33 42 31 00-0487	EA	7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,029.84
33 42 31 00-0488	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,159.76
33 42 31 00-0489	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,522.06
33 42 31 00-0490	EA	10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,283.62
33 42 31 00-0491	EA	12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,978.70
33 42 31 00-0492	EA	14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,607.31
33 42 31 00-0493	EA	16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,230.21
33 42 31 00-0494	EA	18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,795.33
33 42 31 00-0495	EA	20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,303.49
33 42 31 00-0496		Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0497	EA	3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,821.70
33 42 31 00-0498	EA	4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,210.75
33 42 31 00-0499	EA	5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,569.89
33 42 31 00-0500	EA	6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,899.10
33 42 31 00-0501	EA	7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,199.24
33 42 31 00-0502	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,470.27
33 42 31 00-0503	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,965.99
33 42 31 00-0504	EA	10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,934.29
33 42 31 00-0505	EA	12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,827.88
33 42 31 00-0506	EA	14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,645.94
33 42 31 00-0507	EA	16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,441.98
33 42 31 00-0508	EA	18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,173.97
33 42 31 00-0509	EA	20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,841.11
33 42 31 00-0510		Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0511	EA	3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,658.21
33 42 31 00-0512	EA	4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,022.55
33 42 31 00-0513	EA	5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,357.81
33 42 31 00-0514	EA	6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,663.96
33 42 31 00-0515	EA	7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,940.21
33 42 31 00-0516	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,186.54
33 42 31 00-0517	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,682.26
33 42 31 00-0518	EA	10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,628.31
33 42 31 00-0519	EA	12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,499.66
33 42 31 00-0520	EA	14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,296.29
33 42 31 00-0521	EA	16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,073.21
33 42 31 00-0522	EA	18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,786.10
33 42 31 00-0523	EA	20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,434.95



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

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33 42 31 00-0524 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	EA	3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,558.20	
	EA	4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,864.21	
	EA	5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,148.47	
	EA	6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,412.66	
	EA	7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,656.73	
	EA	8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,879.09	
33 42 31 00-0531 Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	EA	3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,148.68	
	EA	4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,492.97	
	EA	5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,813.38	
	EA	6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,109.89	
	EA	7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,382.53	
	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,630.46	
	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,915.51	
	EA	10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,736.53	
	EA	12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,496.40	
	EA	14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,195.13	
	EA	16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,871.01	
	EA	18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,494.52	
	EA	20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,064.84	
33 42 31 00-0545 Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,689.42	
	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,991.32	
	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,272.30	
	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,533.22	
	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,772.37	
	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,991.45	
33 42 31 00-0552 Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	EA	3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,083.07	
	EA	4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,429.41	
	EA	5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,751.87	
	EA	6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,049.61	
	EA	7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,324.30	
	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,574.29	
	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,887.43	
	EA	10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,709.88	
	EA	12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,470.37	
	EA	14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,169.71	
	EA	16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,846.07	
	EA	18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,470.08	
	EA	20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,041.73	
33 42 31 00-0566 Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	EA	3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,148.68	
	EA	4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,492.97	
	EA	5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,813.38	
	EA	6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,109.89	
	EA	7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,382.53	
	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,630.46	
	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,915.51	
	EA	10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,736.53	
	EA	12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,496.40	
	EA	14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,195.13	
	EA	16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,871.01	
	EA	18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,494.52	
	EA	20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,064.84	
33 42 31 00-0580 Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	EA	3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,673.01	
	EA	4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,975.23	
	EA	5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,257.34	
	EA	6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,517.73	
	EA	7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,758.02	
	EA	8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,977.40	
33 42 31 00-0587 Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,705.82	
	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,007.42	
	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,288.09	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0591	EA	6" Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,547.86		
33 42 31 00-0592	EA	7" Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,786.72		
33 42 31 00-0593	EA	8" Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,005.50		
33 42 31 00-0594 Type GT1 Concrete Drainage Inlet Structure (33 42 31 00-0425)					
33 42 31 00-0595	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,853.98		
33 42 31 00-0596	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,326.10		
33 42 31 00-0597	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,799.40		
33 42 31 00-0598	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,172.54		
33 42 31 00-0599	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,546.02		
33 42 31 00-0600	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,887.43		
33 42 31 00-0601 Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0425)					
33 42 31 00-0602	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,460.85		
33 42 31 00-0603	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,975.01		
33 42 31 00-0604	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,452.37		
33 42 31 00-0605	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,893.74		
33 42 31 00-0606	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,298.30		
33 42 31 00-0607	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,666.88		
33 42 31 00-0608	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,583.95		
33 42 31 00-0609	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,794.42		
33 42 31 00-0610	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,913.46		
33 42 31 00-0611	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,941.88		
33 42 31 00-0612	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,938.15		
33 42 31 00-0613	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,856.01		
33 42 31 00-0614	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,695.47		
33 42 31 00-0615 Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0425)					
33 42 31 00-0616	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,837.58		
33 42 31 00-0617	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,310.01		
33 42 31 00-0618	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,750.40		
33 42 31 00-0619	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,157.88		
33 42 31 00-0620	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,531.68		
33 42 31 00-0621	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,873.39		
33 42 31 00-0622 Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0425)					
33 42 31 00-0623	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,575.66		
33 42 31 00-0624	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,086.04		
33 42 31 00-0625	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,560.42		
33 42 31 00-0626	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,997.99		
33 42 31 00-0627	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,399.59		
33 42 31 00-0628	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,765.20		
33 42 31 00-0629	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,597.99		
33 42 31 00-0630	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,808.17		
33 42 31 00-0631	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,926.89		
33 42 31 00-0632	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,954.18		
33 42 31 00-0633	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,950.20		
33 42 31 00-0634	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,867.81		
33 42 31 00-0635	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,707.04		
33 42 31 00-0636 Type GO Concrete Drainage Inlet Structure (33 42 31 00-0425)					
33 42 31 00-0637	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,033.86		
33 42 31 00-0638	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,365.85		
33 42 31 00-0639	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,674.58		
33 42 31 00-0640	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,960.03		
33 42 31 00-0641	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,222.20		
33 42 31 00-0642	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,461.94		
33 42 31 00-0643	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	4,761.04		
33 42 31 00-0644	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,557.50		
33 42 31 00-0645	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,293.36		
33 42 31 00-0646	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,970.25		
33 42 31 00-0647	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,626.07		
33 42 31 00-0648	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,229.78		
33 42 31 00-0649	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,783.04		
33 42 31 00-0650 Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0425)					
33 42 31 00-0651	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,657.15		
33 42 31 00-0652	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,093.59		
33 42 31 00-0653	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,499.56		
33 42 31 00-0654	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,875.89		
33 42 31 00-0655	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,220.92		
33 42 31 00-0656	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,536.32		
33 42 31 00-0657	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,123.32		
33 42 31 00-0658	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,149.95		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0659 EA 12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,099.54	
33 42 31 00-0660 EA 14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,972.96	
33 42 31 00-0661 EA 16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,818.13	
33 42 31 00-0662 EA 18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,597.28	
33 42 31 00-0663 EA 20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,310.37	
33 42 31 00-0664 Catch Basin Frames And Covers (33 42 31 00-0001)		
33 42 31 00-0665 Cast Iron Frames And Covers (33 42 31 00-0664)		
33 42 31 00-0666 EA 18" Diameter Cast Iron Catch Basin Frame And Cover.....	319.26	82.00
33 42 31 00-0667 EA 22" Diameter Cast Iron Catch Basin Frame And Cover.....	391.11	92.67
33 42 31 00-0668 EA 24" Diameter Cast Iron Catch Basin Frame And Cover.....	431.82	95.95
33 42 31 00-0669 EA 26" Diameter Cast Iron Catch Basin Frame And Cover.....	482.32	111.53
33 42 31 00-0670 EA 28" Diameter Cast Iron Catch Basin Frame And Cover.....	551.20	127.12
33 42 31 00-0671 EA 32" Diameter Cast Iron Catch Basin Frame And Cover.....	827.04	132.85
33 42 31 00-0672 EA 16" x 16" Cast Iron Catch Basin Frame And Cover.....	468.04	100.88
33 42 31 00-0673 EA 18" x 24" Cast Iron Catch Basin Frame And Cover.....	593.98	116.45
33 42 31 00-0674 EA 20" x 27" Cast Iron Catch Basin Frame And Cover.....	661.06	121.37
33 42 31 00-0675 EA 23" x 23" Cast Iron Catch Basin Frame And Cover.....	631.61	121.37
33 42 31 00-0676 EA 24" x 24" Cast Iron Catch Basin Frame And Cover.....	653.83	126.29
33 42 31 00-0677 EA 26" x 26" Cast Iron Catch Basin Frame And Cover.....	697.66	131.22
33 42 31 00-0678 EA 24" x 36" Cast Iron Catch Basin Frame And Cover.....	821.50	141.06
33 42 31 00-0679 Area Yard Drain (33 42 31 00-0001)		
33 42 31 00-0680 Ductile Iron Grates (33 42 31 00-0679)		
Note: Not for traffic loading.		
33 42 31 00-0681 EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe.....	109.46	28.96
33 42 31 00-0682 EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe.....	132.28	30.89
33 42 31 00-0683 EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	294.10	38.62
33 42 31 00-0684 EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	351.49	46.34
33 42 33 Stormwater Curbside Drains and Inlets (33 42)		
33 42 33 00-0001 Curb Inlet Frames And Covers (33 42 33)		
33 42 33 00-0002 Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)		
33 42 33 00-0003 EA 20" x 22" Cast Iron Curb Inlet Frame And Cover.....	566.85	95.95
33 42 33 00-0004 EA 22" x 24" Cast Iron Curb Inlet Frame And Cover.....	608.58	111.53
33 42 33 00-0005 EA 24" x 24" Cast Iron Curb Inlet Frame And Cover.....	627.88	111.53
33 42 33 00-0006 EA 27" x 27" Cast Iron Curb Inlet Frame And Cover.....	688.18	131.22
33 42 33 00-0007 EA 36" x 24" Cast Iron Curb Inlet Frame And Cover.....	687.54	140.23
33 42 36 Stormwater Trench Drains (33 42)		
33 42 36 00-0001 Modular Trench Drains (33 42 36)		
See CSI section 03 31 13 00-0011 for concrete.		
33 42 36 00-0002 Modular Trench Drains (33 42 36 00-0001)		
Note: Excludes grates. See CSI section 33 42 36 00-0110 for grates.		
33 42 36 00-0003 6" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0004 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0005 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0006 LF 6" Wide, High Density Polyethylene, Modular Trench Drain.....	77.46	13.13
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		29.64
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		59.29
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		94.86
For Type 304 Stainless Steel Top Veneer Frame, Add		23.72
For Aluminum Veneer Bronze Anodized Frame, Add		11.86
33 42 36 00-0007 Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0008 EA Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	37.74	
33 42 36 00-0009 EA No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	45.95	
33 42 36 00-0010 EA No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	45.95	
33 42 36 00-0011 Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0012 EA Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	60.92	
33 42 36 00-0013 EA Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	60.92	
33 42 36 00-0014 EA 90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	278.16	
33 42 36 00-0015 EA Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	515.32	
33 42 36 00-0016 EA Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	59.29	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0017 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0018 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0017)		
33 42 36 00-0019 LF 6" Wide, Fiber Reinforced Polyester, Modular Trench Drain.....	105.32	13.13
For Black Acid Resistant Coated Frame, Add	22.53	
For Galvanized Top Frame Assembly, Add	22.53	
For Type 304 Stainless Steel Top Frame Assembly, Add	83.01	
33 42 36 00-0020 Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0017)		
33 42 36 00-0021 EA Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	40.12	
33 42 36 00-0022 EA No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	48.33	
33 42 36 00-0023 EA No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	48.33	
33 42 36 00-0024 Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0017)		
33 42 36 00-0025 EA Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	60.92	
33 42 36 00-0026 EA Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	60.92	
33 42 36 00-0027 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	278.16	
33 42 36 00-0028 EA Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	515.32	
33 42 36 00-0029 EA Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	59.29	
33 42 36 00-0030 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0031 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0030)		
33 42 36 00-0032 LF 6" Wide, Vinylester Fiberglass, Modular Trench Drain.....	131.41	13.13
For Black Acid Resistant Coated Frame, Add	22.53	
For Galvanized Top Frame Assembly, Add	22.53	
For Type 304 Stainless Steel Top Frame Assembly, Add	83.01	
33 42 36 00-0033 Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0030)		
33 42 36 00-0034 EA Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	59.09	
33 42 36 00-0035 EA No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	67.30	
33 42 36 00-0036 EA No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	67.30	
33 42 36 00-0037 Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0030)		
33 42 36 00-0038 EA Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	60.92	
33 42 36 00-0039 EA Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	60.92	
33 42 36 00-0040 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	278.16	
33 42 36 00-0041 EA Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	515.32	
33 42 36 00-0042 EA Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	59.29	
33 42 36 00-0043 6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0044 6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0043)		
33 42 36 00-0045 LF 6" Wide, Polymer Concrete, Modular Trench Drain	269.62	
33 42 36 00-0046 Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0043)		
33 42 36 00-0047 EA Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain.....	108.31	
33 42 36 00-0048 EA No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	133.11	
33 42 36 00-0049 EA No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	46.31	
33 42 36 00-0050 12" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0051 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0050)		
33 42 36 00-0052 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0051)		
33 42 36 00-0053 LF 12" Wide, High Density Polyethylene, Modular Trench Drain	136.87	18.04
For Acid Resistant Coated Top Frame, Add	30.83	
For Galvanized Welded Frame Assembly, Add	32.31	
For Type 304 Stainless Steel Top Frame, Add	184.98	
33 42 36 00-0054 Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0051)		
33 42 36 00-0055 EA End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains	70.49	
33 42 36 00-0056 EA No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	81.42	
33 42 36 00-0057 EA No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	81.42	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0058		Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0051)		
33 42 36 00-0059	EA	Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	105.77	
33 42 36 00-0060	EA	Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	135.41	
33 42 36 00-0061	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	537.40	
33 42 36 00-0062	EA	Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	1,011.72	
33 42 36 00-0063	EA	Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains	118.58	
33 42 36 00-0064		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0050)		
33 42 36 00-0065		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0064)		
33 42 36 00-0066	LF	12" Wide, Fiber Reinforced Polyester, Modular Trench Drain	166.52	18.04
		<i>For Acid Resistant Coated Top Frame, Add</i>	30.83	
		<i>For Galvanized Welded Frame Assembly, Add</i>	32.31	
		<i>For Type 304 Stainless Steel Top Frame, Add</i>	184.98	
33 42 36 00-0067		Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0064)		
33 42 36 00-0068	EA	End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	72.86	
33 42 36 00-0069	EA	No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	83.79	
33 42 36 00-0070	EA	No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	83.79	
33 42 36 00-0071		Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0064)		
33 42 36 00-0072	EA	Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	105.77	
33 42 36 00-0073	EA	Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	135.41	
33 42 36 00-0074	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	537.40	
33 42 36 00-0075	EA	Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,011.72	
33 42 36 00-0076	EA	Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	118.58	
33 42 36 00-0077		12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0050)		
33 42 36 00-0078		12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0077)		
33 42 36 00-0079	LF	12" Wide, Vinylester Fiberglass, Modular Trench Drain.....	225.81	18.04
		<i>For Acid Resistant Coated Top Frame, Add</i>	30.83	
		<i>For Galvanized Welded Frame Assembly, Add</i>	32.31	
		<i>For Type 304 Stainless Steel Top Frame, Add</i>	184.98	
33 42 36 00-0080		Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0077)		
33 42 36 00-0081	EA	End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	161.79	
33 42 36 00-0082	EA	No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	172.72	
33 42 36 00-0083	EA	No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	172.72	
33 42 36 00-0084		Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0077)		
33 42 36 00-0085	EA	Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	105.77	
33 42 36 00-0086	EA	Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	135.41	
33 42 36 00-0087	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	537.40	
33 42 36 00-0088	EA	Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,011.72	
33 42 36 00-0089	EA	Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	118.58	
33 42 36 00-0090		12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0050)		
33 42 36 00-0091		12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0090)		
33 42 36 00-0092	LF	12" Wide, Polymer Concrete, Modular Trench Drain	361.58	
33 42 36 00-0093		Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0090)		
33 42 36 00-0094	EA	Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain.....	182.74	
33 42 36 00-0095	EA	No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	313.64	
33 42 36 00-0096	EA	No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	78.70	
33 42 36 00-0097		23" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0098		23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0097)		
33 42 36 00-0099		23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0100	LF	23" Wide, High Density Polyethylene, Modular Trench Drain	190.41	24.61
		<i>For Acid Resistant Coated Frame, Add</i>	46.25	
		<i>For Galvanized Frame Assembly, Add</i>	46.25	
		<i>For Type 304 Stainless Steel Top Frame, Add</i>	284.59	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 36 00-0101 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains

33 42 36 00-0102	EA	End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	199.92	
33 42 36 00-0103	EA	No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	310.06	
33 42 36 00-0104	EA	No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	310.06	

33 42 36 00-0105 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains

33 42 36 00-0106	EA	Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	232.12	
33 42 36 00-0107	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	1,051.14	
33 42 36 00-0108	EA	Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	1,999.78	
33 42 36 00-0109	EA	Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	237.16	

33 42 36 00-0110 Modular Trench Drain Grates
33 42 36 00-0111 6" Wide, Modular Trench Drain Grates

33 42 36 00-0112	LF	6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate.....	61.02	2.46
33 42 36 00-0113	LF	6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate.....	52.07	2.46
33 42 36 00-0114	LF	6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate.....	54.56	2.46
33 42 36 00-0115	LF	6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	47.97	2.46
33 42 36 00-0116	LF	6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	51.53	2.46
33 42 36 00-0117	LF	6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	52.12	2.46
33 42 36 00-0118	LF	6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate.....	52.12	2.46
33 42 36 00-0119	LF	6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate.....	51.53	2.46
33 42 36 00-0120	LF	6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate.....	45.60	2.46
33 42 36 00-0121	LF	6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate.....	45.60	2.46
33 42 36 00-0122	LF	6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate.....	48.33	2.46
33 42 36 00-0123	LF	6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	48.33	2.46
33 42 36 00-0124	LF	6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate.....	62.20	2.46
33 42 36 00-0125	LF	6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate.....	62.20	2.46
33 42 36 00-0126	LF	6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	112.01	2.46
33 42 36 00-0127	LF	6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate.....	112.01	2.46
33 42 36 00-0128	LF	6" Wide, Stainless Steel Bar, Modular Trench Drain Grate.....	307.66	2.46
33 42 36 00-0129	LF	6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate.....	43.23	2.46
33 42 36 00-0130	LF	6" Wide, Fiberglass, Modular Trench Drain Grate.....	90.66	2.46

33 42 36 00-0131 12" Wide, Modular Trench Drain Grates

33 42 36 00-0132	LF	12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate.....	164.59	2.66
33 42 36 00-0133	LF	12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate.....	157.48	2.66
33 42 36 00-0134	LF	12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	137.32	2.66
33 42 36 00-0135	LF	12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	144.14	2.66
33 42 36 00-0136	LF	12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate.....	124.87	2.66
33 42 36 00-0137	LF	12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate.....	241.97	2.66
33 42 36 00-0138	LF	12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	241.97	2.66
33 42 36 00-0139	LF	12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate.....	308.07	2.66
33 42 36 00-0140	LF	12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate.....	308.07	2.66
33 42 36 00-0141	LF	12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	392.56	2.66
33 42 36 00-0142	LF	12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate.....	392.56	2.66
33 42 36 00-0143	LF	12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate.....	372.70	2.66
33 42 36 00-0144	LF	12" Wide, Fiberglass, Modular Trench Drain Grate.....	177.34	2.66

33 42 36 00-0145 23" Wide, Modular Trench Drain Grates

33 42 36 00-0146	LF	23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate.....	258.68	2.87
33 42 36 00-0147	LF	23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	218.36	2.87
33 42 36 00-0148	LF	23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	336.94	2.87
33 42 36 00-0149	LF	23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....	250.38	2.87

33 44 Storm Utility Water Drains
33 44 36 Oil and Stormwater Separators
33 44 36 00-0001 Oil/Water Separator

Note: Complete with internal sensors and detectors.

33 44 36 00-0002 Coalescing Oil Water Separator

Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.

33 44 36 00-0003 Single Wall Steel Coalescing Oil Water Separator

33 44 36 00-0004	EA	550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....	12,333.58	

Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.

For Interior Polyurethane Coating, Add

711.00



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Storm Utility Water Drains	33 44	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0005	EA		1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 1000. 4' diameter x 14' long tank.	14,615.96	
			<i>For Interior Polyurethane Coating, Add</i>	893.70	
33 44 36 00-0006	EA		2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank.	17,073.09	
			<i>For Interior Polyurethane Coating, Add</i>	1,340.10	
33 44 36 00-0007 Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)					
33 44 36 00-0008	EA		550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.	17,981.40	
			<i>For Interior Polyurethane Coating, Add</i>	711.00	
33 44 36 00-0009	EA		1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 1000. 4' diameter x 14' long tank.	20,357.62	
			<i>For Interior Polyurethane Coating, Add</i>	893.70	
33 44 36 00-0010	EA		2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank.	24,403.44	
			<i>For Interior Polyurethane Coating, Add</i>	1,340.10	
33 44 36 00-0011	EA		3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.	28,066.34	
			<i>For Interior Polyurethane Coating, Add</i>	1,550.70	
33 44 36 00-0012	EA		5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 5000. 6' diameter x 28'-8" long tank.	36,397.33	
			<i>For Interior Polyurethane Coating, Add</i>	2,057.80	
33 44 36 00-0013 Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)					
33 44 36 00-0014	EA		Single Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP1.	695.84	
33 44 36 00-0015	EA		Two Channel Alarm Panel For Coalescing Oil Water Separator..... Note: HTAP2.	941.03	
33 44 36 00-0016	EA		Float Interface Sensor For Coalescing Oil Water Separator..... Note: Required for UL 2215 label.	547.37	
33 44 36 00-0017	EA		1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	410.61	
33 44 36 00-0018	EA		Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator..... Note: Required for UL 2215 label.	154.18	
33 44 36 00-0019	EA		550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	2,307.36	
33 44 36 00-0020	EA		3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	4,614.71	
33 44 36 00-0021	EA		5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	6,922.13	
33 44 36 00-0022	EA		550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	441.54	
33 44 36 00-0023	EA		2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	514.48	
33 44 36 00-0024	EA		3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,028.96	
33 44 36 00-0025	EA		5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	2,227.24	
33 44 36 00-0026	EA		30" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	612.49	
33 44 36 00-0027	EA		36" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	791.33	
33 44 36 00-0028	EA		48" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,084.15	
33 44 36 00-0029	EA		54" x 54" Grade Level Manway For Coalescing Oil Water Separator	1,936.63	
			Note: Required when installed in paved areas.		
33 44 36 00-0030	EA		66" x 54" Grade Level Manway For Coalescing Oil Water Separator	2,476.83	
			Note: Required when installed in paved areas.		
33 44 36 00-0031	EA		66" x 66" Grade Level Manway For Coalescing Oil Water Separator	3,096.81	
			Note: Required when installed in paved areas.		
33 44 36 00-0032	EA		78" x 66" Grade Level Manway For Coalescing Oil Water Separator	3,892.30	
			Note: Required when installed in paved areas.		
33 44 36 00-0033	EA		550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	760.16	
33 44 36 00-0034	EA		1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	926.55	
33 44 36 00-0035	EA		2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,455.36	
33 44 36 00-0036	EA		550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	724.83	
33 44 36 00-0037	EA		1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	879.83	
33 44 36 00-0038	EA		2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,043.94	
33 44 36 00-0039	EA		18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	61.54	
33 44 36 00-0040	EA		24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	69.52	
33 44 36 00-0041 Oil Skimmers (33 44 36)					
33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)					
33 44 36 00-0043	EA		Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	4,696.88	511.32
33 44 36 00-0044	EA		Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	4,921.96	511.32
33 44 36 00-0045	EA		Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	4,717.72	511.32
33 44 36 00-0046	EA		Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,006.36	511.32
33 44 36 00-0047	EA		Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	4,954.26	511.32
33 44 36 00-0048	EA		Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,144.95	511.32
33 44 36 00-0049	EA		Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	5,003.24	511.32
33 44 36 00-0050	EA		Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,290.84	511.32

33 Utilities**33 40 Stormwater Utilities****33 44 Storm Utility Water Drains**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0051	EA	Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	5,279.72	681.90
33 44 36 00-0052	EA	Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,520.43	681.90
33 44 36 00-0053	EA	Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	5,343.28	681.90
33 44 36 00-0054	EA	Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,689.24	681.90
33 44 36 00-0055	EA	Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,888.27	681.90
33 44 36 00-0056	EA	Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,128.98	681.90
33 44 36 00-0057	EA	Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	5,939.33	681.90
33 44 36 00-0058	EA	Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,286.33	681.90
33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)				
33 44 36 00-0060	LF	Add For Belt Projection, 12" Width.....	15.63	
33 44 36 00-0061	LF	Add For Belt Projection, 24" Width.....	29.18	
33 44 36 00-0062	LF	Add For Spacer Stands, 12" Models.....	239.43	
33 44 36 00-0063	LF	Add For Spacer Stands, 24" Models.....	285.28	
33 46 Stormwater Management (33 40)				
33 46 23 Modular Buried Stormwater Storage Units (33 46)				
33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23)				
Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.				
33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)				
33 46 23 00-0003	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	347.46	
33 46 23 00-0004	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	318.60	
33 46 23 00-0005	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	298.58	
33 46 23 00-0006	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	279.14	
33 46 23 00-0007	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	158.67	
33 46 23 00-0008	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	139.25	
33 46 23 00-0009	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	128.20	
33 46 23 00-0010	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	117.28	
33 46 23 00-0011 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)				
33 46 23 00-0012	EA	Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	204.00	
33 46 23 00-0013	EA	>10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	185.63	
33 46 23 00-0014	EA	>20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	173.27	
33 46 23 00-0015	EA	>30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	162.03	
33 46 23 00-0016	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	125.22	
33 46 23 00-0017	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	110.77	
33 46 23 00-0018	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	102.14	
33 46 23 00-0019	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	94.46	
33 46 23 00-0020 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) (33 46 23 00-0001)				
33 46 23 00-0021	EA	Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	577.71	
33 46 23 00-0022	EA	>10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	535.92	
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	503.48	
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	474.21	
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	490.86	
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	453.40	
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	425.09	
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	399.74	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Management	33 46	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 46 23 00-0029	85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) (33 46 23 00-0001)				
33 46 23 00-0030	EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....		359.91		
33 46 23 00-0031	EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....		330.44		
33 46 23 00-0032	EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....		309.82		
33 46 23 00-0033	EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....		289.81		
33 46 23 00-0034	EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)		158.67		
33 46 23 00-0035	EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....		136.89		
33 46 23 00-0036	EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....		128.20		
33 46 23 00-0037	EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....		117.28		
33 46 23 00-0038	52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) (33 46 23 00-0001)				
33 46 23 00-0039	EA Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....		602.44		
33 46 23 00-0040	EA >10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....		558.00		
33 46 23 00-0041	EA >20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....		522.91		
33 46 23 00-0042	EA >30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....		493.08		
33 46 23 00-0043	EA Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....		743.06		
33 46 23 00-0044	EA >10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....		691.57		
33 46 23 00-0045	EA >20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....		649.81		
33 46 23 00-0046	EA >30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....		613.64		
33 46 23 00-0047	Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)				
33 46 23 00-0048	EA Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap		43.58		
33 46 23 00-0049	EA Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap		55.98		
33 46 23 00-0050	EA Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap		72.36		
33 46 23 00-0051	EA Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap		91.48		
33 46 23 00-0052	EA 12" x 6" Inspection Port Kit		413.02		
	Note: (2712AG6IPKIT)				
33 46 53	Stormwater Leaching Pits (33 46)				
33 46 53 00-0001	Drainage Wells (33 46 53) Note: Includes augering hole.				
33 46 53 00-0002	LF 12" Diameter Drainage Well With Corrugated Metal Liner.....		22.71		
33 46 53 00-0003	LF 18" Diameter Drainage Well With Corrugated Metal Liner.....		27.49		
33 46 53 00-0004	LF 24" Diameter Drainage Well With Corrugated Metal Liner.....		36.35		
33 50	Hydrocarbon Utilities (33)				
33 51	Hydrocarbon Sources (33 50)				
33 51 29	Extraction Wells for Gaseous Hydrocarbons (33 51)				
33 51 29 00-0001	Landfill Gas Well (33 51 29) See CSI section 02 62 16 00-0000 for soil vapor extraction.				
33 51 29 00-0002	Mobilization And Demobilization Landfill Gas Extraction Well (33 51 29 00-0001)				
33 51 29 00-0003	EA 24" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization.....		949.64		
33 51 29 00-0004	EA >24" To 36" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization		1,424.44		
33 51 29 00-0005	Drill Landfill Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0001) Note: Excludes well gravel or materials.				
33 51 29 00-0006	LF 24" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....		164.41		
33 51 29 00-0007	LF 30" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....		214.14		
33 51 29 00-0008	LF 36" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....		266.37		
33 51 29 00-0009	Landfill Gas Extraction Well Gravel Backfill (33 51 29 00-0001) Note: 1/2" x 1-1/2" drain rock.				
33 51 29 00-0010	LF 24" Diameter Landfill Gas Extraction Well, Gravel.....		79.61		
33 51 29 00-0011	LF 30" Diameter Landfill Gas Extraction Well, Gravel.....		102.29		

33 Utilities**33 50 Hydrocarbon Utilities****33 51 Hydrocarbon Sources**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 51 29 00-0012	LF	36" Diameter Landfill Gas Extraction Well, Gravel.....	119.73	
33 51 29 00-0013		Landfill Gas Extraction Well Collection Head (33 51 29 00-0001)		
33 51 29 00-0014	EA	Landfill Gas Extraction Well Head Assembly	2,032.10	
33 51 29 00-0015	EA	Landfill Gas Extraction Well Locking Enclosure	651.50	
33 51 29 00-0016	SF	Landfill Gas Extraction Well Skirt, PVC Seal (Landtex WBS-100-4)	3.03	
33 51 29 00-0017	CF	Landfill Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD)	6.30	
33 51 29 00-0018	CY	Landfill Gas Extraction Well Plug, Moistened And Tamped In 2' Lifts	101.84	
33 51 29 00-0019	EA	4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Landfill Gas Extraction Well	460.10	9.98
		Note: Includes drilling, concrete footing, pipe and concrete fill.		
		For Galvanized Steel, Add	36.75	
		For 304 Stainless Steel, Add	291.86	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	999.64	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	498.84	
		For Schedule 80, Add	56.82	
33 51 29 00-0020		Landfill Gas Extraction Well Valve Box (33 51 29 00-0001)		
33 51 29 00-0021	EA	17" x 30" x 12" High Fibrelyte Utility Box (FL36T-12)	229.79	107.09
33 51 29 00-0022	EA	17" x 30" x 18" High Fibrelyte Utility Box (FL36T-18)	303.44	107.09
33 51 29 00-0023	EA	17" x 30" x 24" High Fibrelyte Utility Box (FL36T-18)	377.19	107.09
33 51 29 00-0024	EA	Fibrelyte Composite Lid For 17" x 30" Utility Box (FL36D)	170.95	25.83
33 51 29 00-0025	EA	6" High Extension For 17" x 30" Utility Box (FL36x6)	102.68	37.58
33 51 29 00-0026	EA	8" High Extension For 17" x 30" Utility Box (FL36x8)	114.10	37.58
33 51 29 00-0027		Landfill Gas Extraction Well Riser Pipe (33 51 29 00-0001)		
33 51 29 00-0028	LF	4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Thread	16.29	
33 51 29 00-0029	LF	6" Diameter Slotted Polyvinyl Chloride (PVC) Riser Pipe With Slip Joint And Coupler	40.52	
33 51 29 00-0030	EA	6" Well Riser Pipe, Centralizer For >12" To 24" Diameter Well	82.21	
33 51 29 00-0031	EA	6" Well Riser Pipe, Centralizer For >24" To 30" Diameter Well	121.15	
33 51 29 00-0032		Soil Vapor Gas Extraction Well (33 51 29)		
		See CSI section 02 62 16 00-0000 for soil vapor extraction.		
33 51 29 00-0033		Mobilization And Demobilization Soil Vapor Gas Extraction Well (33 51 29 00-0032)		
33 51 29 00-0034	EA	Up To 12" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization	772.96	
33 51 29 00-0035	EA	>12" To 24" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization	949.64	
33 51 29 00-0036		Drill Soil Vapor Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0032)		
		Note: Excludes well gravel or materials.		
33 51 29 00-0037	LF	6" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	18.40	
33 51 29 00-0038	LF	8" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	21.84	
33 51 29 00-0039	LF	10" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	29.21	
33 51 29 00-0040	LF	12" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	45.70	
33 51 29 00-0041	LF	18" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	102.09	
33 51 29 00-0042		Soil Vapor Gas Extraction Well Pea Gravel Backfill (33 51 29 00-0032)		
33 51 29 00-0043	LF	6" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	12.16	
33 51 29 00-0044	LF	8" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	18.19	
33 51 29 00-0045	LF	10" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	25.73	
33 51 29 00-0046	LF	12" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	32.74	
33 51 29 00-0047	LF	18" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	58.72	
33 51 29 00-0048		Soil Vapor Gas Extraction Well Head (33 51 29 00-0032)		
33 51 29 00-0049	EA	Soil Vapor Gas Extraction Well Head Assembly	1,069.69	
33 51 29 00-0050	EA	Soil Vapor Gas Extraction Well Head Concrete Cap	1,022.22	
33 51 29 00-0051	EA	Soil Vapor Gas Extraction Well Locking Enclosure	651.50	
33 51 29 00-0052	CF	Soil Vapor Gas Extraction Well Neat Cement	5.32	
33 51 29 00-0053	CF	Soil Vapor Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD)	6.30	
33 51 29 00-0054	EA	4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Soil Vapor Gas Extraction Well	460.10	9.98
		Note: Includes drilling, concrete footing, pipe and concrete fill.		
		For Galvanized Steel, Add	36.75	
		For 304 Stainless Steel, Add	291.86	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	999.64	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	498.84	
		For Schedule 80, Add	56.82	
33 51 29 00-0055	LF	1/4" Polyethylene Tubing For Soil Vapor Gas Extraction Well	2.41	
		For Work In Restricted Working Space, Add	0.68	
33 51 29 00-0056	EA	1/4" Polyvinyl Chloride (PVC) Stopcock Valve (Hayward LC12) For Soil Vapor Gas Extraction Well	48.34	14.81
33 51 29 00-0057		Soil Vapor Gas Extraction Well Riser Pipe (33 51 29 00-0032)		
33 51 29 00-0058	LF	3/4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Tread	2.87	
33 51 29 00-0059	LF	3/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Riser Pipe	7.24	



		Utilities	33	CS
		Hydrocarbon Utilities	33 50	
		Hydrocarbon Sources	33 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 52 Hydrocarbon Transmission and Distribution (33 50)

33 52 16 Gas Hydrocarbon Piping (33 52)

33 52 16 13 Steel Natural Gas Piping (33 52 16)

33 52 16 13-0001 Gas Distribution Lines (33 52 16 13)
Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 53 Hydrocarbon Utility Pressure Regulation (33 50)

33 53 16 Gas Hydrocarbon Pressure Regulation (33 53)

33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends (33 53 16)

33 53 16 00-0002	EA	3/4" Gas Pressure Regulator, Screwed End.....	150.47	14.81
33 53 16 00-0003	EA	1" Gas Pressure Regulator, Screwed End.....	153.83	14.81
33 53 16 00-0004	EA	1-1/4" Gas Pressure Regulator, Screwed End.....	161.90	17.58
33 53 16 00-0005	EA	1-1/2" Gas Pressure Regulator, Screwed End.....	505.51	20.36
33 53 16 00-0006	EA	2" Gas Pressure Regulator, Screwed End.....	547.98	31.53
33 53 16 00-0007	EA	3" Gas Pressure Regulator, Screwed End.....	1,521.92	70.72
33 53 16 00-0008	EA	4" Gas Pressure Regulator, Screwed End.....	2,108.47	93.72

33 59 Hydrocarbon Utility Metering (33 50)

33 59 11 Diaphragm/Bellows Hydrocarbons Meters (33 59)

33 59 11 00-0001 Diaphragm Meters (33 59 11)

Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections.
Excludes pressure and temperature compensation.

33 59 11 00-0002	EA	250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded.....	391.62	57.94
For Temperature And Pressure Compensation, Add			8.40	
For Pulsers, Add			26.50	
33 59 11 00-0003	EA	425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded.....	745.04	88.61
For Temperature And Pressure Compensation, Add			8.40	
For Pulsers, Add			26.50	
33 59 11 00-0004	EA	425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	860.28	88.61
For Temperature And Pressure Compensation, Add			8.40	
For Pulsers, Add			26.50	
33 59 11 00-0005	EA	800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded.....	1,792.08	110.76
For Temperature And Pressure Compensation, Add			8.40	
For Pulsers, Add			26.50	
33 59 11 00-0006	EA	1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	2,039.80	136.32
For Temperature And Pressure Compensation, Add			8.40	
For Pulsers, Add			26.50	
33 59 11 00-0007	EA	800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	2,615.48	110.76
For Temperature And Pressure Compensation, Add			8.40	
For Pulsers, Add			26.50	
33 59 11 00-0008	EA	1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	2,925.86	136.32
For Temperature And Pressure Compensation, Add			8.40	
For Pulsers, Add			26.50	
33 59 11 00-0009	EA	1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	3,828.68	144.85
For Temperature And Pressure Compensation, Add			8.40	
For Pulsers, Add			26.50	
33 59 11 00-0010	EA	2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	5,387.00	170.41
For Temperature And Pressure Compensation, Add			8.40	
For Pulsers, Add			26.50	
33 59 11 00-0011	EA	5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	8,251.63	281.18
For Temperature And Pressure Compensation, Add			8.40	
For Pulsers, Add			26.50	

33 59 16 Hydrocarbons Turbine Meters (33 59)

33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading (33 59 16)

Note: Maximum working pressure 175 PSI, flanged end connections.

33 59 16 00-0002	EA	4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	6,624.71	275.84
33 59 16 00-0003	EA	6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	6,925.08	320.33
33 59 16 00-0004	EA	8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	10,707.44	369.69
33 59 16 00-0005	EA	10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	20,732.49	450.06
33 59 16 00-0006	EA	12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	34,546.74	562.57

33 70 Electrical Utilities (33)

33 71 Electrical Utility Transmission And Distribution (33 70)

33 71 19 Electrical Underground Ducts, Ductbanks and Manholes (33 71)

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 00-0001 Electrical Handholes And Pull Boxes (33 71 19)

33 Utilities**33 70 Electrical Utilities****33 71 Electrical Utility Transmission And Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 00-0002 Electrical Pull Boxes (33 71 19 00-0001)				
See CSI section 33 05 63 00-0427 for handholes.				
33 71 19 00-0003	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete	1,571.93	
33 71 19 00-0004	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete	1,881.39	
33 71 19 00-0005	EA	30" x 48" x 36", Electric Pull Boxes, Precast Concrete	2,176.96	
33 71 19 00-0006	EA	36" x 72" x 24", Electric Pull Boxes, Precast Concrete	3,378.80	
33 71 19 00-0007	EA	36" x 60" x 36", Electric Pull Boxes, Precast Concrete	3,602.69	
33 71 19 00-0008	EA	48" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,874.01	
33 71 19 00-0009	EA	48" x 60" x 48", Electric Pull Boxes, Precast Concrete	4,456.64	
33 71 19 00-0010	EA	18" x 28" x 34", Electric Pull Boxes, Precast Concrete	1,668.26	
33 71 19 00-0011	EA	14" x 20" x 12", Electric Pull Boxes, Precast Concrete	860.55	
33 71 19 00-0012	EA	18" x 28" x 12", Electric Pull Boxes, Precast Concrete	1,054.30	
33 71 19 00-0013	EA	24" x 36" x 12", Electric Pull Boxes, Precast Concrete	1,407.62	
33 71 19 00-0014	EA	24" x 3", Round Electric Pull Boxes, Precast Concrete	874.95	
33 71 19 00-0015	EA	30" x 3", Round Electric Pull Boxes, Precast Concrete	924.53	
33 71 19 00-0016	EA	No. 5 Electric Precast Concrete Pull Boxes With Traffic Rated Lid.....	1,039.87	
		For 12" Extension, Add	102.31	
		For Traffic Rated Lid, Add	75.47	
33 71 19 00-0017	EA	No. 6 Electric Precast Concrete Pull Boxes With Traffic Rated Lid.....	1,136.67	
		For 12" Extension, Add	126.51	
		For Traffic Rated Lid, Add	104.51	
33 71 19 00-0018 Electrical Pull Boxes (CALTRANS And SDG&E) (33 71 19 00-0001)				
33 71 19 00-0019	EA	Body, CALTRANS 3-1/2 Precast Concrete Pull Box.....	94.76	
33 71 19 00-0020	EA	Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	34.30	
33 71 19 00-0021	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	54.35	
33 71 19 00-0022	EA	Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	107.12	
33 71 19 00-0023	EA	Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	161.83	
		For Galvanized Steel Cover, Add	26.49	
33 71 19 00-0024	EA	12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box.....	45.93	
33 71 19 00-0025	EA	Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box.....	45.93	
33 71 19 00-0026	EA	Body, CALTRANS 5 Precast Concrete Pull Box.....	136.81	
33 71 19 00-0027	EA	Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....	44.66	
33 71 19 00-0028	EA	Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....	64.71	
33 71 19 00-0029	EA	Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box.....	212.34	
		For Galvanized Steel Cover, Add	48.56	
33 71 19 00-0030	EA	12" Extension, CALTRANS 5 Precast Concrete Pull Box.....	62.12	
33 71 19 00-0031	EA	Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box.....	58.55	
33 71 19 00-0032	EA	Body, CALTRANS 6 Precast Concrete Pull Box.....	147.17	
33 71 19 00-0033	EA	Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	58.58	
33 71 19 00-0034	EA	Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	78.63	
33 71 19 00-0035	EA	Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box.....	288.75	
		For Galvanized Steel Cover, Add	67.99	
33 71 19 00-0036	EA	12" Extension, CALTRANS 6 Precast Concrete Pull Box.....	72.48	
33 71 19 00-0037	EA	Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	68.59	
33 71 19 00-0038	EA	6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	91.90	
33 71 19 00-0039	EA	Body, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	189.62	
33 71 19 00-0040	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	253.78	
33 71 19 00-0041	EA	12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	85.43	
33 71 19 00-0042	EA	Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	78.95	
33 71 19 00-0043	EA	Body, CALTRANS 5-T Precast Concrete Pull Box.....	250.77	
33 71 19 00-0044	EA	Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box.....	363.86	
33 71 19 00-0045	EA	12" Extension, CALTRANS 5-T Precast Concrete Pull Box.....	100.97	
33 71 19 00-0046	EA	Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box.....	98.38	
33 71 19 00-0047	EA	Body, CALTRANS 6-T Precast Concrete Pull Box.....	345.31	
33 71 19 00-0048	EA	Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box.....	506.31	
33 71 19 00-0049	EA	12" Extension, CALTRANS 6-T Precast Concrete Pull Box.....	165.72	
33 71 19 00-0050	EA	Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box.....	130.75	
33 71 19 00-0051	EA	24" x 36" Handhole (SDG&E 3313K/T).....	154.82	
33 71 19 00-0052	EA	24" x 36" Traffic Cover (SDG&E 3313CSTG).....	1,031.83	
33 71 19 00-0053 Precast Concrete Box Extensions (33 71 19 00-0001)				
33 71 19 00-0054	EA	14" x 20" x 12", Precast Concrete Extension	191.74	
33 71 19 00-0055	EA	18" x 28" x 12", Precast Concrete Extension	240.71	
33 71 19 00-0056	EA	24" x 36" x 12", Precast Concrete Extension	312.96	
33 71 19 00-0057	EA	30" x 48" x 12", Precast Concrete Extension	382.65	
33 71 19 00-0058	EA	36" x 60" x 12", Precast Concrete Extension	624.83	
33 71 19 00-0059	EA	36" x 72" x 12", Precast Concrete Extension	843.63	
33 71 19 00-0060	EA	48" x 48" x 12", Precast Concrete Extension	966.86	
33 71 19 00-0061	EA	48" x 60" x 12", Precast Concrete Extension	1,187.39	
33 71 19 00-0062 Electrical Property Line Boxes (33 71 19)				
33 71 19 00-0063	EA	3'-6" x 2'-9" x 2' Deep Property Line Box	3,100.31	320.58
33 71 19 00-0064	EA	4'-6" x 3'-6" x 4' Deep Property Line Box	3,626.30	332.45
33 71 19 00-0065	EA	6' x 4' x 5' Deep Property Line Box	3,993.92	403.69
33 71 19 00-0066	EA	11'-6" x 4'-6" x 6' Deep Property Line Box	6,105.69	593.66



		Utilities	33	33
		Electrical Utilities	33 70	
		Electrical Utility Transmission And Distribution	33 71	

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		
33 71 19 00-0067		Underground Electrical Concrete Markers (33 71 19)			
33 71 19 00-0068	EA	36" x 6" x 6", Underground Electric Concrete Marker		277.90	
33 71 19 00-0069		Underground Cable Protection Slab And Marking (33 71 19)			
33 71 19 00-0070	EA	24" x 12", 2" Concrete, Underground Cable Protection		4.40	
33 71 19 00-0071		Manhole Accessories (33 71 19)			
33 71 19 00-0072	EA	6" Precast Grade Ring Riser Casting.....		409.53	
33 71 19 00-0073	EA	12" Precast Grade Ring Riser Casting.....		443.48	
33 71 19 00-0074	EA	36" Opening Cast Iron Frame And Cover NEENAH #R-1640-D		1,302.14	
33 71 19 00-0075	EA	42" Opening Cast Iron Frame And Cover NEENAH #R-1740-E1		1,693.43	
33 71 19 00-0076	EA	Cast Iron Adjusting Ring NEENAH #R-1979.....		575.65	
33 71 19 00-0077	EA	Cast Iron Frame And Cover NEENAH #R-1640-B.....		721.54	

END OF SECTION 33

33	33	Utilities
	33 70	Electrical Utilities
	33 71	Electrical Utility Transmission And Distribution



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Transportation		34
Operation And Maintenance Of Transportation		34 01
Operation And Maintenance Of Railways		34 01 23

34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

34 Transportation

34 01 Operation And Maintenance Of Transportation⁽³⁴⁾

34 01 23 Operation And Maintenance Of Railways^(34 01)

34 01 23 33 Track Realignment^(34 01 23)

34 01 23 33-0001 Realign Railroad Track^(34 01 23 33)

34 01 23 33-0002	LF	Remove Track Rails And Ties And Re-Install Including New Bolts And Spikes.....	75.34
34 01 23 33-0003	EA	Remove Railroad Track Turnouts And Re-install Including New Bolts And Spikes	3,705.45

34 01 43 Operation And Maintenance Of Bridges^(34 01)

34 01 43 00-0001 Repair Of Bridge Posts^(34 01 43)

34 01 43 00-0002	SF	Chipping Of Concrete To Expose Rebar	27.70
34 01 43 00-0003	EA	Replace Concrete Post, 20" x 20" Square, 36" To 42" High.....	1,579.82
Note: Includes removal of damaged post, drilling, epoxy injection, rebar, forms and concrete.			
34 01 43 00-0004	EA	Repair Bearing Pad	559.88

34 01 43 00-0005 Repair Of Bridge Rails^(34 01 43)

34 01 43 00-0006	EA	Repair Concrete Rail Supports	287.46
34 01 43 00-0007	LF	Repair Guardrail	107.79
34 01 43 00-0008	LF	Repair Bridge Parapet Wall	179.66
34 01 43 00-0009	LF	Repair Bridge Rail.....	71.86
34 01 43 00-0010	LF	Repair Damaged Metal Rail And Posts	38.39
34 01 43 00-0011	LF	Replace Metal Rail, 1-1/2" Galvanized	42.62
34 01 43 00-0012	LF	Replace Metal Rail, 2-1/2" Galvanized	55.94
34 01 43 00-0013	LF	Replace Metal Rail, 3" Galvanized.....	62.98

34 01 43 00-0014 Repair Of Bridge^(34 01 43)

34 01 43 00-0015	LF	Repair Of Expansion Joints On Bridge	18.00

34 05 Common Work Results For Transportation⁽³⁴⁾

34 05 43 Common Work Results For Bridges^(34 05)

34 05 43 00-0001 Mobilize Bridge Crew^(34 05 43)

Note: Excludes mobilize jacking crew.

34 05 43 00-0002	EA	Mobilize Bridge Crew.....	993.60

34 05 43 00-0003 Bridge And Structures Concrete Repair^(34 05 43)

Note: This section is used for repairing areas of concrete decks, floors, verticals and overheads and approximately 1" to 6" deep in connection with bridge and structure repairs. Includes chipping, sandblasting, cleaning, primer, formwork and debris removal. Excludes scaffolding, saw cutting, disposal and/or concrete pump truck.

34 05 43 00-0004 Patch Decks Or Floors^(34 05 43 00-0003)

Note: For patching decks and floors, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.

34 05 43 00-0005	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" Portland Cement Based Repair Material.....	1,716.14
34 05 43 00-0006	SF	Patch >16 SF Decks Or Floors, Up To 6" Portland Cement Based Repair Material.....	72.06
34 05 43 00-0007	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	1,758.68
34 05 43 00-0008	SF	Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material.....	74.72
34 05 43 00-0009	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	1,749.27
34 05 43 00-0010	SF	Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	74.14
34 05 43 00-0011	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified).....	2,470.44
For Owner Furnished Material, Deduct			
-883.90			
34 05 43 00-0012	SF	Patch >16 SF Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	119.21
For Owner Furnished Material, Deduct			
-55.24			

34 05 43 00-0013 Patch Verticals Or Overheads^(34 05 43 00-0003)

Note: For patching verticals and overhead, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.

34 05 43 00-0014	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	2,028.98
34 05 43 00-0015	SF	Patch >16 SF Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material.....	87.70
34 05 43 00-0016	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	2,071.52
34 05 43 00-0017	SF	Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	90.36
34 05 43 00-0018	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate	2,062.11
34 05 43 00-0019	SF	Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	89.78
34 05 43 00-0020	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified).....	2,783.28
For Owner Furnished Material, Deduct			
-883.90			

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0021 SF Patch >16 SF Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified) <i>For Owner Furnished Material, Deduct</i>	134.85 -55.24	
34 05 43 00-0022 Patch Pier Caps And Pedestals (34 05 43 00-0003) Note: For patching pier caps and pedestals, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0023 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material.....	2,341.82	
34 05 43 00-0024 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material	99.43	
34 05 43 00-0025 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material.....	2,384.36	
34 05 43 00-0026 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	102.09	
34 05 43 00-0027 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	2,374.95	
34 05 43 00-0028 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate	101.51	
34 05 43 00-0029 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)	3,096.12	
<i>For Owner Furnished Material, Deduct</i>	-883.90	
34 05 43 00-0030 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified).....	146.58	
<i>For Owner Furnished Material, Deduct</i>	-55.24	
34 05 43 00-0031 Patch Circular Piers (34 05 43 00-0003) Note: For patching circular piers, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0032 EA Patch Up To 16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material.....	2,811.08	
34 05 43 00-0033 SF Patch >16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material.....	111.16	
34 05 43 00-0034 EA Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material.....	2,853.62	
34 05 43 00-0035 SF Patch >16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	113.82	
34 05 43 00-0036 EA Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate	2,844.21	
34 05 43 00-0037 SF Patch >16 SF Circular Pier, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate	130.23	
34 05 43 00-0038 EA Patch Up To 16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	3,565.38	
<i>For Owner Furnished Material, Deduct</i>	-883.90	
34 05 43 00-0039 SF Patch >16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified).....	158.31	
<i>For Owner Furnished Material, Deduct</i>	-55.24	
34 05 43 00-0040 Fiber Reinforced Shotcrete Repair (34 05 43)		
34 05 43 00-0041 EA Mobilize Fiber Reinforced Shotcrete Repair Crew	634.95	
34 05 43 00-0042 SF Up To 2" Thick, Fiber Reinforced Shotcrete Repair	49.07	
<i>For Up To 25, Add</i>	23.82	
<i>For >25 To 50, Add</i>	11.91	
<i>For >50 To 150, Add</i>	4.76	
34 05 43 00-0043 SF >2" To 4" Thick, Fiber Reinforced Shotcrete Repair	58.44	
<i>For Up To 25, Add</i>	27.79	
<i>For >25 To 50, Add</i>	13.89	
<i>For >50 To 150, Add</i>	5.56	
34 05 43 00-0044 SF >4" To 6" Thick, Fiber Reinforced Shotcrete Repair	67.81	
<i>For Up To 25, Add</i>	31.75	
<i>For >25 To 50, Add</i>	15.88	
<i>For >50 To 150, Add</i>	6.35	
34 05 43 00-0045 Bridge Railing (34 05 43)		
34 05 43 00-0046 Remove And Store Bridge Railings (34 05 43 00-0045) See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0047 LF Remove And Store One Rail Bridge Railing	5.85	
34 05 43 00-0048 LF Remove And Store Two Rail Bridge Railing	11.70	
34 05 43 00-0049 LF Remove And Store Three Rail Bridge Railing	17.53	
34 05 43 00-0050 LF Remove And Store Four Rail Bridge Railing	23.38	
34 05 43 00-0051 Install Stored Or Supplied Bridge Railings (34 05 43 00-0045) See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0052 LF Install Stored Or Supplied One Rail Bridge Railing	49.26	
34 05 43 00-0053 LF Install Stored Or Supplied Two Rail Bridge Railing	98.53	
34 05 43 00-0054 LF Install Stored Or Supplied Three Rail Bridge Railing	147.79	
34 05 43 00-0055 LF Install Stored Or Supplied Four Rail Bridge Railing	197.06	
34 05 43 00-0056 Bridge Bearings (34 05 43) Note: Excludes drilling and anchor bolts.		
34 05 43 00-0057 Elastomeric Bearings (34 05 43 00-0056)		
34 05 43 00-0058 EA Plain Elastomeric, Type EP Bearing, 716-10, All Loads	747.24	243.34
34 05 43 00-0059 EA Steel Laminated Elastomeric, Type EL Bearing, 716-11, Up To 100K.....	1,165.67	486.66
<i>For >100K To 250K Load, Add</i>	49.65	
<i>For >250K To 500K Load, Add</i>	99.30	
<i>For >500K To 750K Load, Add</i>	148.95	
34 05 43 00-0060 EA Elastomeric with External Load Plates, Type EB Bearing, 716-12, Up To 100K.....	2,509.82	730.00
<i>For >100K To 250K Load, Add</i>	150.61	
<i>For >250K To 500K Load, Add</i>	301.21	
<i>For >500K To 750K Load, Add</i>	451.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0061 Fixed Structural Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0062 EA 100K To 250K Fixed Structural Pot Bearing	2,055.80	
34 05 43 00-0063 EA >250K To 500K Fixed Structural Pot Bearing	3,184.81	
34 05 43 00-0064 EA >500K To 750K Fixed Structural Pot Bearing	4,313.80	
34 05 43 00-0065 Universal Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0066 EA 100K To 250K Universal Structural Pot Bearing	2,616.54	
34 05 43 00-0067 EA >250K To 500K Universal Structural Pot Bearing	4,049.24	
34 05 43 00-0068 EA >500K To 750K Universal Structural Pot Bearing	5,484.97	
34 05 43 00-0069 Guided Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0070 EA 100K To 250K Guided Structural Pot Bearing	2,706.14	
34 05 43 00-0071 EA >250K To 500K Guided Structural Pot Bearing	4,183.60	
34 05 43 00-0072 EA >500K To 750K Guided Structural Pot Bearing	5,664.11	
34 05 43 00-0073 Remove, Repair And Install Bridge Bearings (34 05 43 00-0056)		
34 05 43 00-0074 Remove Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0075 EA 100K To 250K Structural Bearing Removal	349.79	
34 05 43 00-0076 EA >250K To 500K Structural Bearing Removal	699.58	
34 05 43 00-0077 EA >500K To 750K Structural Bearing Removal	1,049.37	
34 05 43 00-0078 Install And Set Supplied Or Restored Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0079 EA 100K To 250K Structural Bearing - Install And Set Supplied Or Restored Bearing	524.68	
34 05 43 00-0080 EA >250K To 500K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,049.37	
34 05 43 00-0081 EA >500K To 750K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,574.05	
34 05 43 00-0082 Power Wash And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0083 EA 100K To 250K Structural Bearing - Power Wash And Paint	816.54	
34 05 43 00-0084 EA >250K To 500K Structural Bearing - Power Wash And Paint	921.42	
34 05 43 00-0085 EA >500K To 750K Structural Bearing - Power Wash And Paint	1,026.31	
34 05 43 00-0086 Power Wash, Mechanically Clean And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates. Excludes paint removal.		
34 05 43 00-0087 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,086.94	
For Vacuum Contained Cleaning, Add	270.38	
34 05 43 00-0088 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,225.59	
For Vacuum Contained Cleaning, Add	304.17	
34 05 43 00-0089 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,363.93	
For Vacuum Contained Cleaning, Add	337.88	
34 05 43 00-0090 Power Wash And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0091 EA 100K To 250K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	509.65	
34 05 43 00-0092 EA >250K To 500K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	612.79	
34 05 43 00-0093 EA >500K To 750K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	715.93	
34 05 43 00-0094 Power Wash, Mechanically Clean And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0095 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	679.64	
For Vacuum Contained Cleaning, Add	168.99	
34 05 43 00-0096 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	815.57	
For Vacuum Contained Cleaning, Add	202.78	
34 05 43 00-0097 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	951.20	
For Vacuum Contained Cleaning, Add	236.49	
34 05 43 00-0098 Sand Blast And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0099 EA 100K To 250K Structural Bearing - Sand Blast And Paint	1,303.20	
For Vacuum Contained Cleaning, Add	324.44	
34 05 43 00-0100 EA >250K To 500K Structural Bearing - Sand Blast And Paint	1,468.92	
For Vacuum Contained Cleaning, Add	365.00	
34 05 43 00-0101 EA >500K To 750K Structural Bearing - Sand Blast And Paint	1,634.64	
For Vacuum Contained Cleaning, Add	405.56	
34 05 43 00-0102 Sand Blast And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0103 EA 100K To 250K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	814.79	
For Vacuum Contained Cleaning, Add	202.78	
34 05 43 00-0104 EA >250K To 500K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	977.79	
For Vacuum Contained Cleaning, Add	243.33	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0105 EA >500K To 750K Structural Bearing - Sand Blast And Paint Only Bearing Plates..... <i>For Vacuum Contained Cleaning, Add</i>	1,140.80 283.89	
34 05 43 00-0106 Grease Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0107 EA 100K To 250K Structural Bearing - Grease	50.70	
34 05 43 00-0108 EA >250K To 500K Structural Bearing - Grease	76.04	
34 05 43 00-0109 EA >500K To 750K Structural Bearing - Grease	101.38	
34 05 43 00-0110 Replace Bronze Plate Wearing Pad (34 05 43 00-0073)		
34 05 43 00-0111 SF Replace Bronze Plate Wearing Pad.....	290.32	
34 05 43 00-0112 Bridge Bearing Rivet Removal (34 05 43 00-0073) See CSI section 02 41 19 13-0069 for reaming of hole, 34 05 43 00-0343 for anchors and grouting.		
34 05 43 00-0113 EA Bridge Bearing Rivet Removal	202.78	
34 05 43 00-0114 Bridge Pintels, Side Keeper, And Shim Plates (34 05 43)		
34 05 43 00-0115 EA Remove And Replace Bridge Pintel.....	194.46	
34 05 43 00-0116 EA Remove And Replace Bridge Side Keeper	197.76	
34 05 43 00-0117 EA Refabricate And Install Shim Plates At One Bearing	122.90	
34 05 43 00-0118 EA Refabricate And Install Beveled Shim Plates At One Bearing	122.90	
34 05 43 00-0119 EA Refabricate And Install Finger Shim Plates At One Bearing	122.90	
34 05 43 00-0120 Vertical Jacking And Lifting (34 05 43) Note: For vertical jacking of structural members. Includes jacks, hydraulics, and synchronizing equipment where appropriate. Excludes engineering and design. See CSI section 03 01 30 71-0000 for concrete repair, 05 12 23 00-0000 for temporary steel members.		
34 05 43 00-0121 Mobilize Jacking Crew And Equipment (34 05 43 00-0120) Note: Includes removing equipment after completion.		
34 05 43 00-0122 EA Mobilize Bridge Jacking Crew and Equipment..... <i>For Temporary Support Mobilization, Add</i>	1,825.00 3,650.00	
34 05 43 00-0123 Vertical Jacking And Lifting Per Point of Contact (34 05 43 00-0120) Note: Includes positioning jack, shims, lifting, and lowering. Excludes temporary steel, temporary lumber, and concrete repairs.		
34 05 43 00-0124 EA Up To 10 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	304.16 60.83 121.66	
34 05 43 00-0125 EA >10 To 20 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	354.86 70.97 141.94	
34 05 43 00-0126 EA >20 To 40 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	405.55 81.11 162.22	
34 05 43 00-0127 EA >40 To 60 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	456.25 91.25 182.50	
34 05 43 00-0128 EA >60 To 80 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	506.94 101.39 202.78	
34 05 43 00-0129 EA >80 To 100 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	557.63 111.53 223.05	
34 05 43 00-0130 EA >100 To 120 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	608.33 121.67 243.33	
34 05 43 00-0131 EA >120 To 140 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	633.68 126.74 253.47	
34 05 43 00-0132 EA >140 To 160 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	659.03 131.81 263.61	
34 05 43 00-0133 EA >160 To 250 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	659.03 131.81 263.61	
34 05 43 00-0134 EA >250 To 300 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	709.72 141.94 283.89	
34 05 43 00-0135 EA >300 To 400 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	760.41 152.08 304.16	
34 05 43 00-0136 EA >400 To 500 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	811.11 162.22 324.44	
34 05 43 00-0137 EA >500 To 600 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	861.81 172.36 344.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0138	Daily Charge For Vertical Jacking Equipment (34 05 43 00-0120) Note: Includes hydraulics and synchronizing equipment.	
34 05 43 00-0139 DAY	Up To 10 Ton Jacking Equipment Charge By The Day	11.59
34 05 43 00-0140 DAY	>10 To 20 Ton Jacking Equipment Charge By The Day	23.18
34 05 43 00-0141 DAY	>20 To 40 Ton Jacking Equipment Charge By The Day	46.35
34 05 43 00-0142 DAY	>40 To 60 Ton Jacking Equipment Charge By The Day	69.53
34 05 43 00-0143 DAY	>60 To 80 Ton Jacking Equipment Charge By The Day	92.70
34 05 43 00-0144 DAY	>80 To 100 Ton Jacking Equipment Charge By The Day	115.88
34 05 43 00-0145 DAY	>100 To 120 Ton Jacking Equipment Charge By The Day	139.06
34 05 43 00-0146 DAY	>120 To 140 Ton Jacking Equipment Charge By The Day	162.23
34 05 43 00-0147 DAY	>140 To 160 Ton Jacking Equipment Charge By The Day	185.41
34 05 43 00-0148 DAY	>160 To 250 Ton Jacking Equipment Charge By The Day	211.57
34 05 43 00-0149 DAY	>250 To 300 Ton Jacking Equipment Charge By The Day	241.19
34 05 43 00-0150 DAY	>300 To 400 Ton Jacking Equipment Charge By The Day	305.51
34 05 43 00-0151 DAY	>400 To 500 Ton Jacking Equipment Charge By The Day	362.78
34 05 43 00-0152 DAY	>500 To 600 Ton Jacking Equipment Charge By The Day	413.59
34 05 43 00-0153	Temporary Shoring (34 05 43 00-0120) Note: Setup includes material use cost and initial erection. Setup is also used for relocation to the opposite abutment. Relocation includes moving and setup at a new jacking location. Takedown includes disassembly and removal from the site. Excludes earthwork and temporary stone.	
34 05 43 00-0154	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)	
34 05 43 00-0155 EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	2,012.70
34 05 43 00-0156 EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	1,486.54
34 05 43 00-0157 EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	335.25
34 05 43 00-0158	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)	
34 05 43 00-0159 EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	2,050.55
34 05 43 00-0160 EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	1,400.13
34 05 43 00-0161 EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	321.60
34 05 43 00-0162	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)	
34 05 43 00-0163 EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	1,294.93
34 05 43 00-0164 EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	635.43
34 05 43 00-0165 EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	204.74
34 05 43 00-0166	HP14x117 Column Attached to Existing Footing, Permanent Steel Stiffeners, Braced by Angles Attached to Abutment Face, Temporary Shoring (34 05 43 00-0153)	
34 05 43 00-0167 EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	3,645.11
34 05 43 00-0168 EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,260.87
34 05 43 00-0169 EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	551.07
34 05 43 00-0170	Mat Supported HP12x63 Column, Braced by Channel and Angles, Attached to Existing 4" Diameter Concrete Column, Temporary Shoring (34 05 43 00-0153) Note: Excludes mats. See CSI section 01 22 23 00-0535 for mats.	
34 05 43 00-0171 EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Setup	3,997.38
34 05 43 00-0172 EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Relocation	1,648.90

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0173	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Take Down And Removal	841.12		
Note: Excludes mats.					
34 05 43 00-0174		Mat Supported HP12x53 Column, Braced by Channel and Angles, Attached to Abutment Face, Temporary Shoring (34 05 43 00-0153)			
Note: Excludes mats. See CSI section 01 22 23 00-0535 for mats.					
34 05 43 00-0175	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	1,583.22		
34 05 43 00-0176	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	510.49		
Note: Excludes mats.					
34 05 43 00-0177	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	288.33		
Note: Excludes mats.					
34 05 43 00-0178		MC18x51.9 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring (34 05 43 00-0153)			
34 05 43 00-0179	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Setup	2,036.80		
34 05 43 00-0180	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Relocation	1,882.98		
34 05 43 00-0181	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Take Down And Removal	281.51		
34 05 43 00-0182		MC15x74 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring (34 05 43 00-0153)			
34 05 43 00-0183	EA	WT15x74 Attached To Abutment Face, Temporary Shoring Setup	1,474.33		
34 05 43 00-0184	EA	WT15x74 Attached To Abutment Face, Temporary Shoring Relocation	1,345.17		
34 05 43 00-0185	EA	WT15x74 Attached To Abutment Face, Temporary Shoring Take Down And Removal	232.03		
34 05 43 00-0186		Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge Column, Temporary Shoring (34 05 43 00-0153)			
34 05 43 00-0187	EA	Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge, Temporary Shoring Setup	1,031.17		
Note: Left in place.					
34 05 43 00-0188		Temporary Bridge Shoring Components (34 05 43 00-0153)			
Note: For temporary shoring of columns and abutments associated with vertical jacking of structural members. Includes lifting equipment where appropriate. Excludes engineering and design. See CSI section 01 54 23 00-0039 for temporary lumber.					
34 05 43 00-0189		Fabricate, Install And Remove After Use Temporary Steel Bridge Shoring (34 05 43 00-0189)			
Note: Includes cutting, drilling and welds. Excludes gravel, mats, anchors, and bolts.					
34 05 43 00-0190	LF	Fabricate And Install MC7 x 19.1 For Temorary Bridge Shoring	60.57		
Note: Remove after use.					
34 05 43 00-0191	LF	Fabricate And Install MC18 x 51.9 For Temorary Bridge Shoring	151.80		
Note: Remove after use.					
34 05 43 00-0192	LF	Fabricate And Install HP12 x 53 For Temorary Bridge Shoring	115.07		
Note: Remove after use.					
34 05 43 00-0193	LF	Fabricate And Install HP12 x 63 For Temorary Bridge Shoring	127.68		
Note: Remove after use.					
34 05 43 00-0194	LF	Fabricate And Install 3" x 3" x 3/8" Angle Iron For Temorary Bridge Shoring	17.99		
Note: Remove after use.					
<i>For Galvanized Steel, Add</i>			3.86		
34 05 43 00-0195	LF	Fabricate And Install 4" x 4" x 3/8" Angle Iron For Temorary Bridge Shoring	22.74		
Note: Remove after use.					
<i>For Galvanized Steel, Add</i>			5.25		
34 05 43 00-0196	LF	Fabricate And Install 7" x 4" x 5/8" Angle Iron For Temorary Bridge Shoring	45.47		
Note: Remove after use.					
<i>For Galvanized Steel, Add</i>			11.85		
34 05 43 00-0197	LF	Fabricate And Install 5" x 3-1/2" x 3/4" Angle Iron For Temorary Bridge Shoring	39.29		
Note: Remove after use.					
<i>For Galvanized Steel, Add</i>			10.62		
34 05 43 00-0198	LF	Fabricate And Install 7" x 4" x 3/4" Angle Iron For Temorary Bridge Shoring	52.00		
Note: Remove after use.					
<i>For Galvanized Steel, Add</i>			14.06		
34 05 43 00-0199	SF	Fabricate And Install 5/8" A36 Steel Plates For Temorary Bridge Shoring	62.19		
Note: Remove after use.					
<i>For A50 Grade Steel, Add</i>			1.50		
34 05 43 00-0200	SF	Fabricate And Install 7/8" A36 Steel Plates For Temorary Bridge Shoring	87.05		
Note: Remove after use.					
<i>For A50 Grade Steel, Add</i>			2.10		
34 05 43 00-0201	SF	Fabricate And Install 1-3/8" A36 Steel Plates For Temorary Bridge Shoring	136.79		
Note: Remove after use.					
<i>For A50 Grade Steel, Add</i>			3.30		
34 05 43 00-0202	SF	Fabricate And Install 1-1/2" A36 Steel Plates For Temorary Bridge Shoring	149.23		
Note: Remove after use.					
<i>For A50 Grade Steel, Add</i>			3.60		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0203 Relocate Temporary Steel Bridge Shoring (34 05 43 00-0188) Note: Includes removal after use.		
34 05 43 00-0204 EA Relocate Complete Temporary Steel Bridge Shoring Note: Remove after use. Includes relocating support matts. Excludes anchors, bolts or additional steel if required.	3,572.73	
34 05 43 00-0205 SF Relocate 1-3/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	70.89	
34 05 43 00-0206 LF Relocate HP12 x 63 For Temporary Bridge Shoring..... Note: Remove after use.	57.16	
34 05 43 00-0207 LF Relocate 3" x 3" x 3/8" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	11.77	
34 05 43 00-0208 LF Relocate 4" x 4" x 3/8" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	14.28	
34 05 43 00-0209 LF Relocate 7" x 4" x 3/4" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	29.33	
34 05 43 00-0210 SF Relocate 7/8" A36 Steel Plates For Temorary Bridge Shoring..... Note: Remove after use.	45.11	
34 05 43 00-0211 LF Relocate MC7 x 19.1 For Temorary Bridge Shoring Note: Remove after use.	33.15	
34 05 43 00-0212 LF Relocate HP12 x 53 For Temorary Bridge Shoring..... Note: Remove after use.	55.97	
34 05 43 00-0213 SF Relocate 5/8" A36 Steel Plates For Temorary Bridge Shoring..... Note: Remove after use.	32.23	
34 05 43 00-0214 LF Relocate 7" x 4" x 5/8" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	26.35	
34 05 43 00-0215 SF Relocate 1-1/2" A36 Steel Plates For Temorary Bridge Shoring Note: Remove after use.	77.33	
34 05 43 00-0216 LF Relocate MC18 x 51.9 For Temorary Bridge Shoring..... Note: Remove after use.	95.67	
34 05 43 00-0217 LF Relocate 5" x 3-1/2" x 3/4" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	22.16	
34 05 43 00-0218 Pier Caps And Pedestal Replacement For Bridges (34 05 43) See CSI section 03 15 19 00-0001 for anchor bolts.		
34 05 43 00-0219 SF Bridge Wood Formwork For Seats, Pedestals, Pier Caps And Miscellaneous Areas	21.79	
34 05 43 00-0220 CWT Rebar For Pier Cap Or Pedestals	343.63	
34 05 43 00-0221 CY Pour Pedestals	365.71	
34 05 43 00-0222 CY Demolish Concrete Pedestals.....	3,272.06	
34 05 43 00-0223 CY Pour Pier Cap	432.12	
34 05 43 00-0224 CY Demolish Concrete Pier Cap	3,762.51	
34 05 43 00-0225 Bridge Deck Repair (34 05 43)		
34 05 43 00-0226 Bridge Expansion Joint Repair (34 05 43 00-0225) Note: Replace header with semi-flexible polymer nosing system. Includes sawcutting, chipping, sandblasting, forming, backer rod cleaning, primer and debris removal. Excludes disposal.		
34 05 43 00-0227 CF Replace Header With Semi-Flexible Polymer Nosing System	586.30	
34 05 43 00-0228 CF Replace Header With Fast-Setting, Rapid-Hardening Structural Repair Mortar	162.42	
Note: Includes sawcutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.		
For Up To 24, Add	28.42	
34 05 43 00-0229 CF Replace Header With Polyester-Based Polymer Patch	182.29	
Note: Includes sawcutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.		
For Up To 24, Add	30.40	
34 05 43 00-0230 CI Seal Expansion Joints With Rapid Cure Silicone.....	4.99	
34 05 43 00-0231 CI Seal Expansion Joints With Closed Cell Foam/EVA.....	0.59	
34 05 43 00-0232 LF Seal Expansion Joints With "V" Shape Preformed Silicone.....	66.08	
34 05 43 00-0233 LF Seal Expansion Joints With "W" Shape Preformed Silicone.....	69.97	
34 05 43 00-0234 Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck (34 05 43 00-0225) Note: Includes steel profile and neoprene seal element. Demolition includes sawcutting and disposal of existing strip seal but excludes concrete removal.		
34 05 43 00-0235 LF 1-1/4" x 3-3/4" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	136.48	
34 05 43 00-0236 LF 1-7/8" x 8" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	154.80	
34 05 43 00-0237 LF 1-1/4" x 2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	131.66	
34 05 43 00-0238 LF 1" x 1-1/2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	129.96	
34 05 43 00-0239 Silicone Joint Sealant For Concrete Bridge Deck (34 05 43 00-0225) Note: Installation includes sawcutting, high pressure water wash, sand blast, sweeping, cleaning area, backer rod and silicone sealant.		
34 05 43 00-0240 LF 1" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	17.30	
34 05 43 00-0241 LF 1-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	20.66	
34 05 43 00-0242 LF 2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	24.42	
34 05 43 00-0243 LF 2-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	26.57	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0244	V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck (34 05 43 00-0225) Note: Includes sawcutting, sandblasting, conditioner, epoxy, and backer rod.		
34 05 43 00-0245	LF 3" Remove And Replace V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck	59.94	
34 05 43 00-0246	LF 4" Remove And Replace V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck	63.23	
34 05 43 00-0247	J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck (34 05 43 00-0225) Note: Includes sawcutting, sandblasting, conditioner, and epoxy.		
34 05 43 00-0248	LF 2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	59.88	
34 05 43 00-0249	LF 2-1/2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	70.06	
34 05 43 00-0250	LF 3" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	85.03	
34 05 43 00-0251	LF 3-1/2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	101.64	
34 05 43 00-0252	LF 4" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	112.85	
34 05 43 00-0253	LF 5" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	200.53	
34 05 43 00-0254	Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck (34 05 43 00-0225) Note: Includes sawcutting, sandblasting, and lubricant adhesive.		
34 05 43 00-0255	LF 1-1/4" x 1-1/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	34.78	
34 05 43 00-0256	LF 1-5/8" x 1-7/8" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	37.49	
34 05 43 00-0257	LF 1-3/4" x 1-3/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	39.08	
34 05 43 00-0258	LF 2" x 2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	40.95	
34 05 43 00-0259	LF 2-1/2" x 2-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	45.49	
34 05 43 00-0260	LF 3" x 3-1/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	51.26	
34 05 43 00-0261	LF 3-1/2" x 3-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	59.09	
34 05 43 00-0262	LF 4" x 4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	67.09	
34 05 43 00-0263	LF 4-1/2" x 4-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	70.70	
34 05 43 00-0264	LF 5" x 5" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	79.83	
34 05 43 00-0265	LF 6" x 6" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	109.69	
34 05 43 00-0266	Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck (34 05 43 00-0225) Note: Includes sawcutting, sandblasting and epoxy.		
34 05 43 00-0267	LF 1/2" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	32.63	
34 05 43 00-0268	LF 5/8" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	33.60	
34 05 43 00-0269	LF 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	34.54	
34 05 43 00-0270	LF 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	35.80	
34 05 43 00-0271	LF 1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	37.10	
34 05 43 00-0272	LF 1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	53.09	
34 05 43 00-0273	LF 1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	56.62	
34 05 43 00-0274	LF 2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	58.84	
34 05 43 00-0275	LF 2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	62.35	
34 05 43 00-0276	LF 2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	66.35	
34 05 43 00-0277	LF 2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	70.53	
34 05 43 00-0278	LF 3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	72.66	
34 05 43 00-0279	LF 3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	79.81	
34 05 43 00-0280	LF 3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	85.73	
34 05 43 00-0281	LF 3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	90.80	
34 05 43 00-0282	LF 4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	93.01	
34 05 43 00-0283	EA 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	118.40	
34 05 43 00-0284	EA 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	122.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0285	EA		1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	141.62	
34 05 43 00-0286	EA		1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	147.81	
34 05 43 00-0287	EA		1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	152.83	
34 05 43 00-0288	EA		2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	175.24	
34 05 43 00-0289	EA		2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	180.00	
34 05 43 00-0290	EA		2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	185.58	
34 05 43 00-0291	EA		2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	191.47	
34 05 43 00-0292	EA		3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	220.39	
34 05 43 00-0293	EA		3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	231.39	
34 05 43 00-0294	EA		3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	240.28	
34 05 43 00-0295	EA		3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	247.71	
34 05 43 00-0296	EA		4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	250.89	
34 05 43 00-0297			Remove Existing Steel Joint System (34 05 43 00-0225)		
34 05 43 00-0298	LF		Remove Existing Steel Joint System	67.25	
34 05 43 00-0299			Break-Up And Remove Bridge Decking By Machine (34 05 43 00-0225) Note: Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting, See CSI section 02 41 19 13-0046 for saw cutting.		
34 05 43 00-0300	SY		Break-Up And Remove Up To 3" Thick Bituminous Pavement Bridge Decking By Machine..... For >500 To 1,000, Deduct For >1,000 To 2,500, Deduct For >2,500 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000, Deduct	14.39 -1.44 -2.59 -3.74 -4.89 -6.04	
34 05 43 00-0301	SY		Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Machine..... For >500 To 1,000, Deduct For >1,000 To 2,500, Deduct For >2,500 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000, Deduct	19.65 -1.97 -3.54 -5.11 -6.68 -8.25	
34 05 43 00-0302	SY		Break-Up And Remove To 3" Thick Concrete With Reinforcing Bridge Decking By Machine	23.83	
			For >500 To 1,000, Deduct For >1,000 To 2,500, Deduct For >2,500 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000, Deduct	-2.38 -4.29 -6.20 -8.10 -10.01	
34 05 43 00-0303	SY		Break-Up And Remove > 3" To 6" Thick Concrete With Reinforcing Bridge Decking By Machine	30.64	
			For >500 To 1,000, Deduct For >1,000 To 2,500, Deduct For >2,500 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000, Deduct	-3.06 -5.52 -7.97 -10.42 -12.87	
34 05 43 00-0304	SY		Break-Up And Remove > 6" To 9" Thick Concrete With Reinforcing Bridge Decking By Machine	54.78	
			For >500 To 1,000, Deduct For >1,000 To 2,500, Deduct For >2,500 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000, Deduct	-5.48 -9.86 -14.24 -18.63 -23.01	
34 05 43 00-0305	SY		Break-Up And Remove >9" To 14" Thick Concrete With Reinforcing Bridge Decking By Machine	71.50	
			For >500 To 1,000, Deduct For >1,000 To 2,500, Deduct For >2,500 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000, Deduct	-7.15 -12.87 -18.59 -24.31 -30.03	
34 05 43 00-0306	SY		Break-Up And Remove >14" To 19" Thick Concrete With Reinforcing Bridge Decking By Machine	93.47	
			For >500 To 1,000, Deduct For >1,000 To 2,500, Deduct For >2,500 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000, Deduct	-9.35 -16.82 -24.30 -31.78 -39.26	
34 05 43 00-0307	SY		Break-Up And Remove >19" To 24" Thick Concrete With Reinforcing Bridge Decking By Machine	113.45	
			For >500 To 1,000, Deduct For >1,000 To 2,500, Deduct For >2,500 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000, Deduct	-11.35 -20.42 -29.50 -38.57 -47.65	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0308	Break-Up And Remove Bridge Decking By Hand (34 05 43 00-0225) Note: Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0046 for saw cutting.		
34 05 43 00-0309	SF Break-Up And Remove 1" To 3" Thick Bituminous Pavement Bridge Decking By Hand 10.20 Note: Includes jackhammer and hand tools.	10.20	
34 05 43 00-0310	SF Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Hand 13.41 Note: Includes jackhammer and hand tools.	13.41	
34 05 43 00-0311	SF Break-Up And Remove >6" To 8" Thick Bituminous Pavement Bridge Decking By Hand 17.44 Note: Includes jackhammer and hand tools.	17.44	
34 05 43 00-0312	SF Break-Up And Remove 1" To 3" Thick Concrete Bridge Decking By Hand 12.75 Note: Includes jackhammer and hand tools.	12.75	
34 05 43 00-0313	SF Break-Up And Remove >3" To 6" Thick Concrete Bridge Decking By Hand 15.94 Note: Includes jackhammer and hand tools.	15.94	
34 05 43 00-0314	SF Break-Up And Remove >6" To 8" Thick Concrete Bridge Decking By Hand 19.12 Note: Includes jackhammer and hand tools.	19.12	
34 05 43 00-0315	SF Chipping And Cleaning Of Bridge Deck After Break-up And Removals.....4.51	4.51	
34 05 43 00-0316	Hydro Blasting Of Bridge Decks (34 05 43 00-0225) Note: Excludes hauling and disposal of water and debris.		
34 05 43 00-0317	EA Mobilization Of Hydro Blasting Equipment.....10,610.50 Note: Includes trailer with power, hydro milling machine, vacuum machine.	10,610.50	
34 05 43 00-0318	EA Mobilization Of Hydro Blasting Equipment.....1,377.98 Note: Includes water tank, pump and miscellaneous fittings.	1,377.98	
34 05 43 00-0319	SF Hydroblasting Of Up To 2-1/2" Of Bridge Decks 9.42	9.42	
34 05 43 00-0320	SF Vacuuming And Cleaning Of Bridge Decks Up To 2-1/2", Following Hydroblasting 6.96	6.96	
34 05 43 00-0321	SF Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum Up To 2-1/2" 1.72	1.72	
34 05 43 00-0322	SF Hydroblasting 3" To 4-1/2" Of Bridge Decks 13.93	13.93	
34 05 43 00-0323	SF Vacuuming And Cleaning Of Bridge Decks 3" To 4-1/2", Following Hydroblasting.....9.42	9.42	
34 05 43 00-0324	SF Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum 3" To 4-1/2" 4.51	4.51	
34 05 43 00-0325	GAL Water For Hydro Blasting.....0.11 Note: Includes delivery.	0.11	
34 05 43 00-0326	Patch For Bridge Deck (34 05 43 00-0225)		
34 05 43 00-0327	CF Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Deck.....74.43 Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.	74.43	
34 05 43 00-0328	CF Polyester-Based Polymer Patch For Bridge Deck.....94.30 Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.	94.30	
34 05 43 00-0329	SF Hand Placed Hot Mixed Asphalt Repair For Bridge Approach.....19.03 Note: Includes removal of HMA, tack coat, and installation of HMA and compaction by roller.	19.03	
34 05 43 00-0330	Pressure Washing For Bridge Deck (34 05 43 00-0225)		
34 05 43 00-0331	SF Pressure Washing For Bridge Deck.....0.06 Note: Includes pressure washer and water.	0.06	
34 05 43 00-0332	Galvanic Anodes (34 05 43)		
34 05 43 00-0333	EA 2.6" Diameter x 1.2" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP) 33.10 Note: Corrosion prevention only (preventing the initiation of corrosion).	33.10	
34 05 43 00-0334	EA 4.9" Long x 1.0" Wide x 1.0" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XPT) 33.10 Note: Corrosion prevention only (preventing the initiation of corrosion).	33.10	
34 05 43 00-0335	EA 2.8" Long x 2.4" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP2) 37.67 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	37.67	
34 05 43 00-0336	EA 4.3" Long x 2.2" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP4) 41.14 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	41.14	
34 05 43 00-0337	EA 2.5" Diameter x 1.1" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP+) 37.67 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	37.67	
34 05 43 00-0338	EA 1-3/4" Diameter x 2-1/2" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC65) 38.83 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	38.83	
34 05 43 00-0339	EA 1-3/4" Diameter x 4" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC100) 46.92 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	46.92	
34 05 43 00-0340	EA 1-1/8" Diameter x 5-3/8" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC135) 43.45 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	43.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0341 Bridge Netting Panels (34 05 43)		
34 05 43 00-0342 SF Bridge Netting Panel.....	5.67	
Note: Includes cable, beam clamps to attach to the bridge structure without the need for drilling/welding and snap hooks for attaching the net.		
For Up To 160, Add	7.20	
For >160 To 320, Add	3.60	
For >320 To 480, Add	1.80	
For >2,000 To 10,000, Deduct	-0.24	
For >10,000 To 25,000, Deduct	-0.48	
For >25,000, Deduct	-0.72	
34 05 43 00-0343 Anchors (34 05 43)		
Note: Excludes core drilling. See CSI section 02 41 19 13-0069 for core drilling.		
34 05 43 00-0344 Threaded Rod, A449 (34 05 43 00-0343)		
34 05 43 00-0345 LF 7/8" Diameter Continuous Threaded Rod, A449.....	12.25	
34 05 43 00-0346 LF 1" Diameter Continuous Threaded Rod, A449.....	14.53	
34 05 43 00-0347 LF 1-1/8" Diameter Continuous Threaded Rod, A449.....	16.79	
34 05 43 00-0348 LF 1-1/4" Diameter Continuous Threaded Rod, A449.....	21.08	
34 05 43 00-0349 Flat Washers, F436 (34 05 43 00-0343)		
34 05 43 00-0350 EA 7/8" Flat Washer, F436.....	1.49	
34 05 43 00-0351 EA 1" Flat Washer, F436.....	1.73	
34 05 43 00-0352 EA 1-1/8" Flat Washer, F436.....	1.90	
34 05 43 00-0353 EA 1-1/4" Flat Washer, F436.....	2.16	
34 05 43 00-0354 Heavy Hex Nut, A194 (34 05 43 00-0343)		
34 05 43 00-0355 EA 7/8" Hex Nut, A194.....	2.88	
34 05 43 00-0356 EA 1" Hex Nut, A194.....	3.82	
34 05 43 00-0357 EA 1-1/8" Hex Nut, A194.....	4.50	
34 05 43 00-0358 EA 1-1/4" Hex Nut, A194.....	5.35	
34 05 43 00-0359 Grout For Threaded Rod (34 05 43 00-0343)		
34 05 43 00-0360 IN Grout 7/8" Rod In Hole.....	2.30	
34 05 43 00-0361 IN Grout 1" Rod In Hole.....	2.62	
34 05 43 00-0362 IN Grout 1-1/8" Rod In Hole.....	3.06	
34 05 43 00-0363 IN Grout 1-1/4" Rod In Hole.....	3.65	
34 05 43 00-0364 Test Grouted Anchor (34 05 43 00-0343)		
34 05 43 00-0365 EA Test Grouted Anchor.....	19.48	
34 05 43 00-0366 Removal Of Fasteners Or Anchors In Concrete (34 05 43 00-0343)		
Note: Includes removal of damaged, chemically adhered or mechanically fastened bolts, studs, threaded rod or concrete anchors with a carbide drill bit.		
34 05 43 00-0367 EA Drill Out 3/8" Diameter Fastener/Anchor In Concrete.....	19.94	
34 05 43 00-0368 EA Drill Out 1/2" Diameter Fastener/Anchor In Concrete.....	21.45	
34 05 43 00-0369 EA Drill Out 9/16" Diameter Fastener/Anchor In Concrete.....	22.36	
34 05 43 00-0370 EA Drill Out 5/8" Diameter Fastener/Anchor In Concrete.....	24.15	
34 05 43 00-0371 EA Drill Out 3/4" Diameter Fastener/Anchor In Concrete.....	26.44	
34 05 43 00-0372 EA Drill Out 7/8" Diameter Fastener/Anchor In Concrete.....	29.14	
34 05 43 00-0373 EA Drill Out 1" Diameter Fastener/Anchor In Concrete.....	30.80	
34 05 43 00-0374 EA Drill Out 1-1/8" Diameter Fastener/Anchor In Concrete.....	32.69	
34 05 43 00-0375 EA Drill Out 1-1/4" Diameter Fastener/Anchor In Concrete.....	35.03	
34 05 43 00-0376 EA Drill Out 1-1/2" Diameter Fastener/Anchor In Concrete.....	39.37	
34 05 43 00-0377 Bridge Surfacing (34 05 43)		
34 05 43 00-0378 Bridge Coatings (34 05 43 00-0377)		
Note: Includes sweeping of bridge deck.		
34 05 43 00-0379 SF Penetrating Corrosion Inhibitor Sealer For Bridge Decks (Two Coats).....	0.73	
Note: Includes power washing and drying after power washing.		
34 05 43 00-0380 SF Protective Seal Coat For Existing Bridge Decks.....	1.44	
34 05 43 00-0381 SF Penetrating Sealer For Existing Bridge Decks.....	2.31	
34 05 43 00-0382 Bridge Membranes (34 05 43 00-0377)		
Note: Excludes abrasive blasting of deck.		
34 05 43 00-0383 SF Spray Applied Waterproofing Membrane For Bridge Decks.....	9.40	
34 05 43 00-0384 SF Sheet Applied Waterproofing Membrane For Bridge Decks.....	2.65	
34 05 43 00-0385 Sealer And Overlay For Bridge Deck (34 05 43 00-0377)		
Note: Excludes sweeping, cleaning and abrasive blasting.		

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0386 SF Shot Blasting Bridge Decks 1.20 Note: Includes steel ball media. Includes air cleaning of deck surface after shot blasting.		
34 05 43 00-0387 SF Thin Polymer (Epoxy) Overlay For Bridge Deck 3.88 Note: Includes epoxy overlay applied in two coats with aggregate.		
34 05 43 00-0388 SF 3/4" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck 12.10 Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0389 SF 1" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck 13.94 Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0390 SF 1-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck 17.47 Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0391 SF 2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck 21.00 Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0392 SF 2-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck 24.53 Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0393 SF 3" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck 28.06 Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0394 Broadcast Silica Sand (34 05 43 00-0377) Note: Includes removing loose sand..		
34 05 43 00-0395 SF Broadcast Silica Sand.....0.20		
34 05 43 00-0396 Sweeping And Cleaning Of Bridge Deck (34 05 43 00-0377) See CSI section 01 22 23 00-1206 for water trucks, 01 22 23 00-1224 for vacuum sweeper trucks.		
34 05 43 00-0397 Concrete Overlay For Bridge Deck (34 05 43 00-0377) Note: Includes sweeping and cleaning. Excludes abrasive blasting.		
34 05 43 00-0398 SY 3" Concrete Overlay For Bridge Deck 134.22 For DOT Class DP, Add 25.48 For DOT Class E, Add 8.31 For DOT Class HP, Add 24.33		
34 05 43 00-0399 Bridge Roadway Grooving (34 05 43 00-0377)		
34 05 43 00-0400 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal 3,020.58		
34 05 43 00-0401 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal 4.89		
34 05 43 00-0402 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Traverse 3,365.03		
34 05 43 00-0403 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Traverse 6.38		
34 05 43 00-0404 Gravity Fed Concrete Crack Repair (34 05 43 00-0377) Note: Includes removing loose materials and cleaning.		
34 05 43 00-0405 LF Epoxy Low Viscosity Gravity Fed Concrete Crack Repair 2.28		
34 05 43 00-0406 LF HMWM Low Viscosity Gravity Fed Concrete Crack Repair 2.69		
34 05 43 00-0407 Concrete Pumping With Boom Truck (34 05 43 00-0377) See CSI section 03 31 13 00-0010 for concrete delivery for small quantities, 03 31 13 00-0088 for concrete pump truck.		
34 05 43 00-0408 Bridge Girder Repair (34 05 43)		
34 05 43 00-0409 Bridge Girder Repair (34 05 43 00-0408) Note: Does not include mobilization of bridge jacking crew. See CSI section 05 05 23 00-0040 for bolts, nuts and washers, 05 12 23 00-0000 for additional steel shapes, angles and channels.		
34 05 43 00-0410 HR UT, MT, PT Testing.....75.00 Note: Does not include mileage to job site.		
34 05 43 00-0411 EA Mobilization of Bridge Girder Repair Crew 1,926.15		
34 05 43 00-0412 LF 3" x 3" x 1/4" Angle Iron For Bridge Repair 10.20 Cutting Fee For Channels And Angles, Add Per Each Piece 20.00 For Fractured Critical, Add 20.00 For Stainless Steel, Add 13.54 For Aluminum, Add 0.76 For Galvanized Steel, Add 2.62		4.48
34 05 43 00-0413 LF 4" x 4" x 1/4" Angle Iron For Bridge Repair 13.00 Cutting Fee For Channels And Angles, Add Per Each Piece 20.00 For Fractured Critical, Add 20.00 For Stainless Steel, Add 18.27 For Aluminum, Add 1.03 For Galvanized Steel, Add 3.54		5.47
34 05 43 00-0414 LF 3" x 3" x 3/8" Angle Iron For Bridge Repair 12.93 Cutting Fee For Channels And Angles, Add Per Each Piece 20.00 For Fractured Critical, Add 20.00 For Stainless Steel, Add 19.90 For Aluminum, Add 1.12 For Galvanized Steel, Add 3.86		5.04
34 05 43 00-0415 LF 4" x 4" x 3/8" Angle Iron For Bridge Repair 16.62 Cutting Fee For Channels And Angles, Add Per Each Piece 20.00 For Fractured Critical, Add 20.00 For Stainless Steel, Add 27.07 For Aluminum, Add 1.52 For Galvanized Steel, Add 5.25		6.12



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0416	LF	6" x 4" x 3/8"	Angle Iron For Bridge Repair.....	21.31	7.99
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	34.08	
			For Aluminum, Add	1.92	
			For Galvanized Steel, Add	6.60	
34 05 43 00-0417	LF	6" x 6" x 3/8"	Angle Iron For Bridge Repair.....	23.56	7.99
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	41.28	
			For Aluminum, Add	2.32	
			For Galvanized Steel, Add	8.00	
34 05 43 00-0418	LF	6" x 6" x 1/2"	Angle Iron For Bridge Repair.....	31.27	10.73
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	54.27	
			For Aluminum, Add	3.05	
			For Galvanized Steel, Add	10.52	
34 05 43 00-0419	LF	7" x 4" x 5/8"	Angle Iron For Bridge Repair.....	34.20	11.31
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	61.18	
			For Aluminum, Add	3.44	
			For Galvanized Steel, Add	11.85	
34 05 43 00-0420	LF	5" x 3-1/2" x 3/4"	Angle Iron For Bridge Repair.....	29.80	9.50
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	54.82	
			For Aluminum, Add	3.08	
			For Galvanized Steel, Add	10.62	
34 05 43 00-0421	LF	6" x 4" x 3/4"	Angle Iron For Bridge Repair.....	35.53	11.32
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	65.38	
			For Aluminum, Add	3.68	
			For Galvanized Steel, Add	12.67	
34 05 43 00-0422	LF	7" x 4" x 3/4"	Angle Iron For Bridge Repair.....	39.43	12.57
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	72.54	
			For Aluminum, Add	4.08	
			For Galvanized Steel, Add	14.06	
34 05 43 00-0423	LF	8" x 6" x 7/8"	Angle Iron For Bridge Repair.....	57.19	17.51
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	108.29	
			For Aluminum, Add	6.09	
			For Galvanized Steel, Add	20.98	
34 05 43 00-0424	LF	C4 x 5.4 - 4"	Wide Channels For Bridge Repair.....	12.35	5.76
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	14.94	
			For Aluminum, Add	0.84	
			For Galvanized Steel, Add	2.90	
34 05 43 00-0425	LF	C6 x 8.2 - 6"	Wide Channels For Bridge Repair.....	17.85	8.06
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	22.72	
			For Aluminum, Add	1.28	
			For Galvanized Steel, Add	4.40	
34 05 43 00-0426	LF	C8 x 11.5 - 8"	Wide Channels For Bridge Repair.....	24.03	10.56
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	31.84	
			For Aluminum, Add	1.79	
			For Galvanized Steel, Add	6.17	
34 05 43 00-0427	LF	C10 x 15.3 - 10"	Wide Channels For Bridge Repair.....	31.96	14.04
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	42.37	
			For Aluminum, Add	2.38	
			For Galvanized Steel, Add	8.21	
34 05 43 00-0428	LF	C12 x 20.7 - 12"	Wide Channels For Bridge Repair.....	43.25	19.00
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	57.31	
			For Aluminum, Add	3.22	
			For Galvanized Steel, Add	11.10	
34 05 43 00-0429	LF	C15 x 33.9 - 15"	Wide Channels For Bridge Repair.....	70.82	31.12
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	93.86	
			For Aluminum, Add	5.28	
			For Galvanized Steel, Add	18.18	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0430 SF 1/2" A36 Steel Plates For Bridge Repair	36.86	12.25
For A50 Grade Steel, Add	1.20	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0431 SF 5/8" A36 Steel Plates For Bridge Repair	46.08	15.31
For A50 Grade Steel, Add	1.50	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0432 SF 3/4" A36 Steel Plates For Bridge Repair	55.29	18.28
For A50 Grade Steel, Add	1.80	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0433 SF 7/8" A36 Steel Plates For Bridge Repair	64.50	21.43
For A50 Grade Steel, Add	2.10	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0434 SF 1" A36 Steel Plates For Bridge Repair	73.71	24.49
For A50 Grade Steel, Add	2.40	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0435 SF 1-1/4" A36 Steel Plates For Bridge Repair	92.14	30.61
For A50 Grade Steel, Add	3.00	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0436 SF 1-3/8" A36 Steel Plates For Bridge Repair	101.35	33.68
For A50 Grade Steel, Add	3.30	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0437 SF 1-1/2" A36 Steel Plates For Bridge Repair	110.57	36.74
For A50 Grade Steel, Add	3.60	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0438 CWT Removal Of Existing Steel For Bridge Repair A36	51.12	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
For Removal Over 30' To 50', Add	10.22	
For Removal Over 50' To 75', Add	17.89	
For Removal Over 75', Add	25.56	
34 05 43 00-0439 TON Removal Of Existing Steel For Bridge Repair A36	681.64	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
For Removal Over 30' To 50', Add	136.33	
For Removal Over 50' To 75', Add	238.57	
For Removal Over 75', Add	340.82	
34 05 43 00-0440 CWT Miscellaneous Steel For Bridge Repair A36	266.71	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
For A50 Grade Steel, Add	43.12	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
34 05 43 00-0441 TON Miscellaneous Steel For Bridge Repair A36	4,220.35	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
For A50 Grade Steel, Add	707.74	
Cutting Fee For I-beams, Floor Beams And Plates Over 5'x5', Add Per Each Piece	30.00	
34 05 43 00-0442 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair Up To 15/16" Diameter	29.43	
Note: Per each hole drilled per steel member.		
34 05 43 00-0443 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair >15/16" Diameter	38.17	
Note: Per each hole drilled per steel member.		
34 05 43 00-0444 EA Bolts A325 For Steel Repair Connections Up To 7/8"	25.09	1.71
34 05 43 00-0445 EA Bridge Girder Rivet Removal	264.48	
34 05 43 00-0446 LF Up To 1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	5.29	
Note: Includes rust or scale removal.		
34 05 43 00-0447 LF >1/2" To 1" Thick Edge Grinding, Smoothing Surface After Torch Cutting	9.55	
Note: Includes rust or scale removal.		
34 05 43 00-0448 LF >1" To 1-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	13.81	
Note: Includes rust or scale removal.		
34 05 43 00-0449 LF >1-1/2" To 2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	18.08	
Note: Includes rust or scale removal.		
34 05 43 00-0450 LF >2" To 2-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	22.35	
Note: Includes rust or scale removal.		
34 05 43 00-0451 LF >2-1/2" To 3" Thick Edge Grinding, Smoothing Surface After Torch Cutting	26.61	
Note: Includes rust or scale removal.		
34 05 43 00-0452 Cleaning And Preparation Of Painted And Unpainted Metal Surfaces (34 05 43 00- (0408)		
34 05 43 00-0453 SF Loose Mill Scale With Fine Powder, Commercial Blast, Surface Preparation, Bridge Girder Repair	0.81	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.12	
For >30,000, Deduct	-0.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0454 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.10	
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.10	
For >15,000 To 30,000, Deduct	-0.16	
For >30,000, Deduct	-0.21	
34 05 43 00-0455 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.63	
For Up To 100, Add	1.05	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 15,000, Deduct	-0.15	
For >15,000 To 30,000, Deduct	-0.24	
For >30,000, Deduct	-0.31	
34 05 43 00-0456 SF Badly Pitted With Rust Nodules, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	2.72	
For Up To 100, Add	1.76	
For >100 To 250, Add	0.82	
For >250 To 500, Add	0.35	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 15,000, Deduct	-0.26	
For >15,000 To 30,000, Deduct	-0.40	
For >30,000, Deduct	-0.53	
34 05 43 00-0457 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Surface Preparation, Bridge Girder Repair.....	2.06	
For Up To 100, Add	1.31	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.26	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 15,000, Deduct	-0.19	
For >15,000 To 30,000, Deduct	-0.30	
For >30,000, Deduct	-0.40	
34 05 43 00-0458 SF Tight Mill Scale Little Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	2.56	
For Up To 100, Add	1.62	
For >100 To 250, Add	0.76	
For >250 To 500, Add	0.32	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 15,000, Deduct	-0.24	
For >15,000 To 30,000, Deduct	-0.37	
For >30,000, Deduct	-0.49	
34 05 43 00-0459 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	3.32	
For Up To 100, Add	2.11	
For >100 To 250, Add	0.98	
For >250 To 500, Add	0.42	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 15,000, Deduct	-0.31	
For >15,000 To 30,000, Deduct	-0.48	
For >30,000, Deduct	-0.64	
34 05 43 00-0460 SF Badly Pitted Rust Nodules, Near White Blast, Surface Preparation, Bridge Girder Repair.....	4.16	
For Up To 100, Add	2.64	
For >100 To 250, Add	1.23	
For >250 To 500, Add	0.53	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 15,000, Deduct	-0.39	
For >15,000 To 30,000, Deduct	-0.60	
For >30,000, Deduct	-0.80	
34 05 43 00-0461 Galvanized Anchor Bolts For Bridge Bearings (34 05 43 00-0408)		
34 05 43 00-0462 EA 1/2" Diameter x 6" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	6.67	
34 05 43 00-0463 EA 1/2" Diameter x 12" Long, J-Type Galvanized Anchor Bolts For Bridge Bearings	10.86	
34 05 43 00-0464 EA 1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	12.88	
34 05 43 00-0465 EA 5/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	14.47	
34 05 43 00-0466 EA 5/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	17.44	
34 05 43 00-0467 EA 5/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	19.57	
34 05 43 00-0468 EA 3/4" Diameter x 8" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	19.49	
34 05 43 00-0469 EA 3/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	22.22	
34 05 43 00-0470 EA 3/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	26.87	
34 05 43 00-0471 EA 3/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	32.25	
34 05 43 00-0472 EA 7/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	25.57	
34 05 43 00-0473 EA 7/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	30.00	
34 05 43 00-0474 EA 7/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	37.79	
34 05 43 00-0475 EA 1" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	31.35	
34 05 43 00-0476 EA 1" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	37.24	
34 05 43 00-0477 EA 1" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	45.87	
34 05 43 00-0478 EA 1" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	56.55	
34 05 43 00-0479 EA 1-1/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	37.18	
34 05 43 00-0480 EA 1-1/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	44.21	
34 05 43 00-0481 EA 1-1/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	54.53	
34 05 43 00-0482 EA 1-1/8" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	67.19	
34 05 43 00-0483 EA 1-1/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	44.41	
34 05 43 00-0484 EA 1-1/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	52.87	
34 05 43 00-0485 EA 1-1/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	65.29	
34 05 43 00-0486 EA 1-1/4" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	80.36	
34 05 43 00-0487 EA 1-1/2" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	53.46	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0488	EA	1-1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	63.68		
34 05 43 00-0489	EA	1-1/2" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	78.73		
34 05 43 00-0490	EA	1-1/2" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	96.86		
34 05 43 00-0491 Welding For Bridge Repair (34 05 43 00-0408)					
34 05 43 00-0492	EA	Minimum Charge For Welding For Bridge Repair Note: For projects where the total welding charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.	1,212.42		
34 05 43 00-0493	LF	3/16" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	12.05 4.64		
34 05 43 00-0494	LF	1/4" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	18.08 6.97		
34 05 43 00-0495	LF	5/16" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	24.12 9.29		
34 05 43 00-0496	LF	3/8" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	30.13 11.61		
34 05 43 00-0497	LF	7/16" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	35.71 13.94		
34 05 43 00-0498	LF	1/2" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	41.87 16.13		
34 05 43 00-0499	LF	9/16" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	48.89 19.00		
34 05 43 00-0500	LF	5/8" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	53.89 20.90		
34 05 43 00-0501	LF	3/4" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	74.21 28.56		
34 05 43 00-0502	LF	7/8" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	97.79 37.87		
34 05 43 00-0503	LF	1" Fillet Welding For Bridge Repair..... <i>For Full Penetration Weld, Add</i>	135.87 52.26		
34 05 43 00-0504 Bridge Trough Repair (34 05 43)					
34 05 43 00-0505	EA	New Bridge Trough Hanger	181.25		21.33
34 05 43 00-0506	EA	Reattach By Welding Existing Bridge Trough Hanger, Top And/Or Bottom.....	50.95		
34 05 43 00-0507	EA	Replace All Thread For Existing Bridge Trough Hanger	78.07		
34 05 43 00-0508	EA	Replace Steel Angle Attachment For Existing Bridge Trough Hanger	54.56		
34 05 43 00-0509 Spot Paint Removal And Painting, Bridge Structural Steel (34 05 43)					
34 05 43 00-0510	HR	Testing For Lead And Asbestos Paint Removal By Asbestos Contractor	80.00		
34 05 43 00-0511	EA	Up To 4 SF, Flat Surfaces, Non-Contaminated Paint Removal	161.40		
34 05 43 00-0512	SF	>4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	40.35		
34 05 43 00-0513	EA	Up To 4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal..... Note: Includes HEPA vacuuming.	210.18		
34 05 43 00-0514	SF	>4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal	52.54		
		Note: Includes HEPA vacuuming.			
34 05 43 00-0515	CF	Treat and Dispose of Removed Paint Waste	4.14		
34 05 43 00-0516	SF	Flat Surfaces Spot Painting	42.80		
		Note: Includes 1 coat primer and 2 coats finish.			
34 05 43 00-0517	EA	Minimum Charge For Plastic Barrier Enclosure for Paint Removal..... Note: Up to an 8' x 8' area, 7' high. Includes 10 mil plastic on walls and floor. 2"x4" construction. Excludes scaffolding.	968.80		
34 05 43 00-0518	SF	Plastic Barrier Enclosure For Paint Removal	3.03		
		Note: For projects where the total charge exceeds the minimum charge for plastic barrier enclosures. Includes 10 mil plastic on floor and walls. 2" x 4" construction. Excludes scaffolding. Use area of walls and floor for quantity.			
34 05 43 00-0519 End Beam Cleaning And Painting (34 05 43)					
34 05 43 00-0520	SF	End Beam Cleaning and Painting..... Note: Includes high pressure wash at minimum 3003 to 5000 PSI, spot cleaning damaged/rusted areas with hand and power tools (SSPC - SP2 and SP3), solvent cleaning (SSPC-SP1), one coat of aluminum epoxy mastic (minimum 6 mils) to spot cleaned areas, one coat sealer (1-2 mils), and one coat polyurethane finish.	2.61		
		<i>For Up To 100, Add</i>	2.61		
		<i>For >100 To 500, Add</i>	1.72		
		<i>For >500 To 3,000, Add</i>	0.86		
		<i>For >5,000 To 7,500, Deduct</i>	-0.45		
		<i>For >7,500 To 10,000, Deduct</i>	-0.71		
		<i>For >10,000, Deduct</i>	-1.03		
34 05 43 00-0521 Snow And Pedestrian Fences For Bridges (34 05 43)					
34 05 43 00-0522 Snow And Pedestrian Fence Assembly For Bridges (34 05 43 00-0521)					
		Note: Includes 1" 11 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, 1-5/8" top rail, 1-5/8" bottom rail, 2-7/8" post 10' O.C. Posts exclude installation onto bridge. Heights indicated are for mesh to top.			
34 05 43 00-0523 Galvanized Snow And Pedestrian Fence Assembly For Bridges (34 05 43 00-0522)					



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0524	LF		4' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.....	30.68	9.26
			For Posts 8' On Centers, Add	1.73	
			For Posts 5' On Centers, Add	6.60	
			For Up To 100, Add	6.26	
			For >100 To 250, Add	2.36	
34 05 43 00-0525	LF		>4' To 5' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	33.22	9.73
			For Posts 8' On Centers, Add	1.87	
			For Posts 5' On Centers, Add	7.11	
			For Up To 100, Add	6.72	
			For >100 To 250, Add	2.53	
34 05 43 00-0526	LF		>5' To 6' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	35.80	10.19
			For Posts 8' On Centers, Add	2.01	
			For Posts 5' On Centers, Add	7.63	
			For Up To 100, Add	7.19	
			For >100 To 250, Add	2.70	
34 05 43 00-0527	LF		>6' To 7' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	37.94	10.65
			For Posts 8' On Centers, Add	2.13	
			For Posts 5' On Centers, Add	8.07	
			For Up To 100, Add	7.59	
			For >100 To 250, Add	2.85	
34 05 43 00-0528	LF		>7' To 8' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	42.14	11.58
			For Posts 8' On Centers, Add	2.36	
			For Posts 5' On Centers, Add	8.93	
			For Up To 100, Add	8.39	
			For >100 To 250, Add	3.14	
34 05 43 00-0529 Vinyl Coated Snow And Pedestrian Fence Assembly For Bridges (34 05 43 00-0522)					
34 05 43 00-0530	LF		4' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	32.38	9.26
			For Powder Coated, Add	3.17	
			For Aluminum Coated, Add	6.33	
			For Posts 8' On Centers, Add	1.82	
			For Posts 5' On Centers, Add	6.90	
			For Up To 100, Add	6.51	
			For >100 To 250, Add	2.45	
34 05 43 00-0531	LF		>4' To 5' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	35.35	9.73
			For Powder Coated, Add	3.60	
			For Aluminum Coated, Add	7.19	
			For Posts 8' On Centers, Add	1.98	
			For Posts 5' On Centers, Add	7.49	
			For Up To 100, Add	7.04	
			For >100 To 250, Add	2.64	
34 05 43 00-0532	LF		>5' To 6' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	40.13	10.19
			For Powder Coated, Add	4.38	
			For Aluminum Coated, Add	8.77	
			For Posts 8' On Centers, Add	2.23	
			For Posts 5' On Centers, Add	8.41	
			For Up To 100, Add	7.84	
			For >100 To 250, Add	2.92	
34 05 43 00-0533	LF		>6' To 7' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	42.97	10.65
			For Powder Coated, Add	4.79	
			For Aluminum Coated, Add	9.58	
			For Posts 8' On Centers, Add	2.38	
			For Posts 5' On Centers, Add	8.97	
			For Up To 100, Add	8.35	
			For >100 To 250, Add	3.10	
34 05 43 00-0534	LF		>7' To 8' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	48.01	11.58
			For Powder Coated, Add	5.46	
			For Aluminum Coated, Add	10.93	
			For Posts 8' On Centers, Add	2.65	
			For Posts 5' On Centers, Add	9.99	
			For Up To 100, Add	9.27	
			For >100 To 250, Add	3.44	
34 05 43 00-0535 Bridge Connection Mounting For Snow And Pedestrian Fence Assembly (34 05 43 00-0522)					
34 05 43 00-0536	EA		Attach Bridge Fence Post To Steel Bridge Railing Post With U-Bolt, Washers And Nuts.....	42.07	
			Note: Includes drilling into steel post.		
34 05 43 00-0537	EA		Attach Bridge Fence Post Base To Existing Plate, Welding And Touch-up With Galvanized Paint.....	25.31	
34 05 43 00-0538	EA		Attach Bridge Fence Post Base With Plate, Welding And Touch-up With Galvanized Paint	61.04	
34 05 43 00-0539	EA		Attach Bridge Fence Post To Concrete Safety Shape Barrier With Bolt, 5/8" Diameter x 4-3/4" Anchor Rods, Washers And Nuts.....	66.41	
			Note: Includes drilling into steel post.		
34 05 43 00-0540	EA		Attach Bridge Fence Post To Stone Faced Barrier Top With Plate, 3/8" Diameter Anchor Rods, Washers And Nuts	91.51	
			Note: Includes drilling into steel post.		

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

34 10 Guideways/Railways ⁽³⁴⁾**34 11 Rail Tracks** ^(34 10)**34 11 93 Track Appurtenances And Accessories** ^(34 11)**34 11 93 00-0001 Railroad Crossings** ^(34 11 93)**34 11 93 00-0002 Asphalt Railroad Crossings** ^(34 11 93 00-0001)

Note: Based on 8" thickness x 20' including track and approach.

34 11 93 00-0003	EA	8" Asphalt Railroad Crossing, 12' Roadway 6 CY	1,759.82	273.69
34 11 93 00-0004	EA	8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY	2,071.39	310.17
34 11 93 00-0005	EA	8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY	2,446.18	364.91
34 11 93 00-0006	EA	8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY	2,904.38	437.89
34 11 93 00-0007	EA	8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY	3,508.51	547.37

34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts ^(34 11 93 00-0001)

Note: Based on 6" thickness x standard rail width gauge.

34 11 93 00-0009	EA	Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge.....	4,927.24	124.60
34 11 93 00-0010	EA	Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge.....	6,159.06	151.29
34 11 93 00-0011	EA	Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge.....	7,386.45	186.89
34 11 93 00-0012	EA	Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge.....	8,614.98	213.59
34 11 93 00-0013	EA	Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge.....	9,842.80	249.20

34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers ^(34 11 93 00-0001)

Note: Based on 3' x 8'-6" sections.

34 11 93 00-0015	EA	Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers	2,927.92	124.60
34 11 93 00-0016	EA	Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers	3,472.00	151.29
34 11 93 00-0017	EA	Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers	4,011.66	186.89
34 11 93 00-0018	EA	Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers	4,552.46	213.59
34 11 93 00-0019	EA	Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers	5,092.54	249.20

34 11 93 00-0020 Railroad Trackage Demolition ^(34 11 93)

34 11 93 00-0021	CY	Remove Railroad Track Ballast.....	7.26	
34 11 93 00-0022	LF	Remove Railroad Track Rail And Spikes	18.14	
34 11 93 00-0023	EA	Remove/Dispose Of Concrete Post Footings	106.24	
34 11 93 00-0024	EA	Backfill Holes From Post Removal	44.28	

34 40 Transportation Signaling and Control Equipment ⁽³⁴⁾**34 41 Roadway Signaling and Control Equipment** ^(34 40)**34 41 13 Traffic Signals** ^(34 41)**34 41 13 00-0001 Traffic Signals** ^(34 41 13)

34 41 13 00-0002	EA	Single Traffic Signal Head, 4 Way Pattern	4,866.16	609.09

34 41 13 00-0003 Traffic Detector Induction Loop ^(34 41 13)

34 41 13 00-0004	EA	6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop.....	326.36	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0005	EA	6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop.....	407.29	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0006	EA	6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop.....	457.00	
Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0007	EA	6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop.....	399.75	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0008	EA	6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	693.67	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0009	EA	6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	856.04	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0010	EA	6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	907.18	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0011	EA	6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,136.62	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0012	EA	6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,212.11	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				



		Transportation	34
		Transportation Signaling and Control Equipment	34 40
		Roadway Signaling and Control Equipment	34 41

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0013	EA		6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,311.21	
34 41 13 00-0014	EA		6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,403.46	
34 41 13 00-0015	LF		In Pavement, Lead Wire For Traffic Signal Detector Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.	5.81	
34 41 13 00-0016	LF		In Earthwork, Lead Wire For Traffic Signal Detector Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.	2.71	
34 41 13 00-0017	EA		2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	165.04	
34 41 13 00-0018	EA		4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	447.93	
34 41 13 00-0019	EA		2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	281.95	
34 41 13 00-0020 Overhead Traffic Signals (34 41 13)					
34 41 13 00-0021	EA		Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000).....	3,841.08	812.11
34 41 13 00-0022	EA		Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100).....	3,947.24	812.11
34 41 13 00-0023	EA		Traffic Signal Controller Unit, Replacement For Type 170E (ASC/3RM).....	4,090.88	812.11
34 41 13 00-0024	EA		Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way.....	730.37	182.99
34 41 13 00-0025	EA		Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way.....	792.83	182.99
34 41 13 00-0026	EA		Optical Detector For Mast Arm Mounting, 2 Channel.....	997.66	182.99
34 41 13 00-0027	EA		Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way.....	730.37	182.99
34 41 13 00-0028	EA		Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way.....	792.83	182.99
34 41 13 00-0029	EA		Optical Detector For Pole-Side Mounting, 2 Channel.....	997.66	182.99
34 41 13 00-0030	EA		Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way.....	730.37	182.99
34 41 13 00-0031	EA		Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way.....	792.83	182.99
34 41 13 00-0032	EA		Optical Detector For Pedestal Or Pipe Mounting, 2 Channel.....	997.66	182.99
34 41 13 00-0033	EA		Optical Detector For Span Wire Mounting, 1 Channel, 1 Way.....	730.37	182.99
34 41 13 00-0034	EA		Optical Detector For Span Wire Mounting, 1 Channel, 2 Way.....	792.83	182.99
34 41 13 00-0035	EA		Optical Detector For Span Wire Mounting, 2 Channel.....	997.66	182.99
34 41 13 00-0036	EA		Optical Detector For Signal Top Mounting, 1 Channel, 1 Way.....	730.37	182.99
34 41 13 00-0037	EA		Optical Detector For Signal Top Mounting, 1 Channel, 2 Way.....	792.83	182.99
34 41 13 00-0038	EA		Optical Detector For Signal Top Mounting, 2 Channel.....	997.66	182.99
34 41 13 00-0039	EA		Phase Selector, 2 Channel.....	2,137.83	22.88
34 41 13 00-0040	EA		Phase Selector, 4 Channel.....	3,318.13	22.88
34 41 13 00-0041	EA		Malfunction Management Unit For Use With NEMA Controller.....	1,090.70	45.75
34 41 13 00-0042	EA		Malfunction Management Unit For Use With Type 170E Or 2070 Controller.....	1,090.70	45.75
34 41 13 00-0043	EA		Time Switch, 1-Circuit.....	304.05	27.45
34 41 13 00-0044	EA		Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal.....	220.22	11.43
34 41 13 00-0045	EA		Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay.....	286.42	11.43
34 41 13 00-0046	EA		Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal.....	405.07	11.43
34 41 13 00-0047	EA		Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay.....	507.49	11.43
34 41 13 00-0048	EA		Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Controller Cabinet.....	1,369.30	11.43
34 41 13 00-0049	EA		Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet.....	1,369.30	11.43
34 41 13 00-0050	EA		Power Line Surge Protector.....	129.13	6.86
34 41 13 00-0051	EA		Loop Detector Surge Protector.....	67.25	6.86
34 41 13 00-0052	EA		Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay.....	8,560.12	1,142.04
34 41 13 00-0053	EA		Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays.....	9,272.05	1,142.04
34 41 13 00-0054	EA		Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay.....	10,127.62	1,142.04
34 41 13 00-0055	EA		Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays.....	10,389.90	1,142.04
34 41 13 00-0056	EA		Speed Limit Beacon Control Option.....	3,731.59	304.54
34 41 13 00-0057	EA		Speed Limit Beacon Control Cabinet.....	4,340.68	609.09
34 41 13 00-0058	EA		Remote Detector Cabinet.....	2,404.73	609.09
34 41 13 00-0059	EA		Traffic Signal Hand Control.....	640.18	101.51
34 41 13 00-0060	EA		Load Switch.....	62.44	6.86
34 41 13 00-0061	EA		Extra Pedestrian Detector Isolation Assembly.....	515.28	101.51
34 41 13 00-0062	EA		Fiber Optic Transceivers-Repeater Module.....	786.60	182.99
34 41 13 00-0063	EA		Field Transceiver-Repeater.....	366.00	45.75
34 41 13 00-0064	EA		30" Pedestal With Base Plate And Cover.....	550.19	92.01
34 41 13 00-0065	EA		42" Pedestal With Base Plate And Cover (Push Button Pedestal).....	640.98	96.19
34 41 13 00-0066	EA		8' Pedestal With Base Plate And Cover.....	798.43	107.90
34 41 13 00-0067	EA		11' Pedestal With Base Plate And Cover.....	887.59	117.10
34 41 13 00-0068	EA		15' Pedestal With Base Plate And Cover.....	989.74	139.70
34 41 13 00-0069	LF		6-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.10	
34 41 13 00-0070	LF		12-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.18	
34 41 13 00-0071	LF		24-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.35	
34 41 13 00-0072	LF		36-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.54	
34 41 13 00-0073	LF		48-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.72	
34 41 13 00-0074	LF		72-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.02	
34 41 13 00-0075	LF		96-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.30	
34 41 13 00-0076	LF		144-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.82	
34 41 13 00-0077	LF		3/16" Diameter Messenger Cable.....	0.53	0.08
34 41 13 00-0078	LF		1/4" Diameter Messenger Cable.....	0.63	0.08
34 41 13 00-0079	LF		3/8" Diameter Messenger Cable.....	1.18	0.08
34 41 13 00-0080	LF		1/2" Diameter Messenger Cable.....	2.43	0.17
34 41 13 00-0081	EA		4' Diameter x 10' Concrete Base For Poles..... Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.	2,245.47	
34 41 13 00-0082	EA		4' Diameter x 16' Concrete Base For Poles..... Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.	3,578.51	
34 41 13 00-0083	EA		Internally Illuminated Street Name Sign, 1 Line, 4'.....	1,705.02	203.03

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0084 EA Internally Illuminated Street Name Sign, 1 Line, 6'	2,106.29	253.79
34 41 13 00-0085 EA Internally Illuminated Street Name Sign, 1 Line, 8'	2,307.73	304.54
34 41 13 00-0086 EA Internally Illuminated Street Name Sign, 1 Line, 10'	2,609.08	355.30
34 41 13 00-0087 EA Internally Illuminated Street Name Sign, 1 Line, 12'	2,810.51	406.06
34 41 13 00-0088 EA Internally Illuminated Street Name Sign, 2 Line, 4'	2,649.26	203.03
34 41 13 00-0089 EA Internally Illuminated Street Name Sign, 2 Line, 6'	3,265.36	253.79
34 41 13 00-0090 EA Internally Illuminated Street Name Sign, 2 Line, 8'	3,536.75	304.54
34 41 13 00-0091 EA Internally Illuminated Street Name Sign, 2 Line, 10'	3,958.00	355.30
34 41 13 00-0092 EA Internally Illuminated Street Name Sign, 2 Line, 12'	4,259.35	406.06
34 41 13 00-0093 EA Photoelectric Controller, Multi-Volt	66.32	23.79
34 41 13 00-0094 EA Photoelectric Controller, 120 Volt	78.85	23.79
34 41 13 00-0095 EA Photoelectric Controller, 480 Volt	78.85	23.79
34 41 13 00-0096 EA Wi-Fi Communication Unit	888.73	101.51
34 41 13 00-0097 EA Wi-Fi Communication Unit Mounting Bracket	214.72	76.14
34 41 13 00-0098 EA Wi-Fi Communication Unit Power Supply / POE Injector	187.69	50.76
34 41 13 00-0099 EA Wi-Fi Communication Unit Packet	1,595.69	152.27
34 41 13 00-0100 LF Preemptor Detector Cable	1.76	
34 41 13 00-0101 EA Sno-Shoe Cable Storage Assembly	169.94	
34 41 13 00-0102 EA 16" Pedestal With Base Plate And Cover	1,041.79	139.70
34 41 13 00-0103 EA Vehicle Signal Face, LED, 1 - 12" Section	385.02	129.43
34 41 13 00-0104 EA Vehicle Signal Face, LED, 2 - 12" Sections	614.00	182.73
34 41 13 00-0105 EA Vehicle Signal Face, LED, 3 - 12" Sections	846.34	223.33
34 41 13 00-0106 EA Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank	808.87	223.33
34 41 13 00-0107 EA Vehicle Signal Face, LED, 4 - 12" Sections	1,059.47	248.71
34 41 13 00-0108 EA Vehicle Signal Face, LED, 5 - 12" Sections	1,252.29	263.94
34 41 13 00-0109 EA Vehicle Signal Face, LED, 5 - 12" Sections, Cluster	1,324.73	263.94
34 41 13 00-0110 EA Vehicle Signal Face, LED, 1 - 8" Section	366.28	129.43
34 41 13 00-0111 EA Vehicle Signal Face, LED, 2 - 8" Sections	576.53	182.73
34 41 13 00-0112 EA Vehicle Signal Face, LED, 3 - 8" Sections	755.16	223.33
34 41 13 00-0113 EA Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section	801.38	223.33
34 41 13 00-0114 EA Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections	979.53	248.71
34 41 13 00-0115 EA Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section	953.30	248.71
34 41 13 00-0116 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections	1,114.90	263.94
34 41 13 00-0117 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster	1,173.60	263.94
34 41 13 00-0118 EA Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed	1,620.72	223.33
34 41 13 00-0119 EA Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed	2,099.89	248.71
34 41 13 00-0120 EA Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed	2,713.62	263.94
34 41 13 00-0121 EA Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed	2,932.19	263.94
34 41 13 00-0122 EA Bracket Signal Mounting Assembly	360.40	101.51
34 41 13 00-0123 EA Mast Arm Signal Mounting Assembly	648.37	203.03
34 41 13 00-0124 EA Top Pole Signal Mounting Assembly	229.71	76.14
34 41 13 00-0125 EA Pedestrian Signal Head	641.77	152.27
34 41 13 00-0126 EA Pedestrian Signal Insert	388.33	76.14
34 41 13 00-0127 EA Audible Pedestrian Signal	926.68	
34 41 13 00-0128 EA Junction Box, Pole Or Post Mounted	370.02	
34 41 13 00-0129 EA Pedestrian Push Button	342.19	
34 41 13 00-0130 EA Illuminated Sign, Bracket Mounted, Symbolic	2,625.33	
34 41 13 00-0131 EA Illuminated Sign, Mast Arm Mounted, Symbolic	2,746.33	
34 41 13 00-0132 EA Sign, Message, "BLANK OUT", Bracket Mounted	2,881.09	
34 41 13 00-0133 EA Sign, Message, "BLANK OUT", Mast Arm Mounted	3,067.66	
34 41 13 00-0134 EA Sign, Fiber Optic, Bracket Mounted	3,268.75	
34 41 13 00-0135 EA Sign, Fiber Optic, Mast Arm Mounted	3,459.28	
34 41 13 00-0136 EA 30" Type 15TS Signal And Lighting Standard	4,936.97	
Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0137 EA 35" Type 21TS Signal And Lighting Standard	5,717.20	
Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0138 EA 17" Type 18-2-100 Signal And Lighting Standard	2,797.52	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0139 EA 17" Type 18-3-100 Signal And Lighting Standard	3,098.76	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0140 EA 17" Type 18-4-100 Or 23-4-100 Signal And Lighting Standard	3,214.24	
Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.		
34 41 13 00-0141 EA 17" Type 23-3-100 Signal And Lighting Standard	3,214.24	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0142 EA 17" Type 23-4-100 Signal And Lighting Standard	3,274.87	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0143 EA 17" Type 27-3-100 Signal And Lighting Standard	3,578.01	
Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0144 EA 17" Type 27-4-100 Signal And Lighting Standard	3,647.71	
Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0145 EA 17" Type 28-5-100 Signal And Lighting Standard	3,790.64	
Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0146 EA 17" Type 60-5-100 Signal And Lighting Standard	4,015.75	
Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0147 EA 18"-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard	2,974.73	
Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.		
34 41 13 00-0148 EA 30" Type 17-2-100 Or 17-3-100 Signal And Lighting Standard	5,253.28	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0149 EA 30" Type 19-2-100 Signal And Lighting Standard	5,885.89	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0150 EA 30" Type 19-3-100 Or 24-3-100 Signal And Lighting Standard	6,128.40	
Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.		



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Transportation Signaling and Control Equipment			34 40
Roadway Signaling and Control Equipment			34 41

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0151	EA	30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.	6,128.40	
34 41 13 00-0152	EA	30' Type 26-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.	6,892.27	
34 41 13 00-0153	EA	30' Type 26-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.	7,185.10	
34 41 13 00-0154	EA	30' Type 29-5-100 Signal And Lighting Standard Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.	7,492.55	
34 41 13 00-0155	EA	30' Type 61-5-100 Signal And Lighting Standard Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.	7,976.82	
34 41 13 00-0156	EA	35' Type 17A-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.	6,104.16	
34 41 13 00-0157	EA	35' Type 19A-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.	6,842.21	
34 41 13 00-0158	EA	35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.	7,125.13	
34 41 13 00-0159	EA	35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.	7,125.13	
34 41 13 00-0160	EA	35' Type 26A-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	8,016.32	
34 41 13 00-0161	EA	35' Type 26A-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	8,357.95	
34 41 13 00-0162	EA	35' Type 29A-5-100 Signal And Lighting Standard Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.	8,716.65	
34 41 13 00-0163	EA	35' Type 61A-5-100 Signal And Lighting Standard Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.	9,281.61	
34 41 13 00-0164	EA	15' Steel Straight Mast Arm, MONOTUBE.....	2,075.31	
34 41 13 00-0165	EA	20' Steel Straight Mast Arm, MONOTUBE.....	2,180.74	
34 41 13 00-0166	EA	25' Steel Straight Mast Arm, MONOTUBE.....	2,330.31	
34 41 13 00-0167	EA	30' Steel Straight Mast Arm, MONOTUBE.....	3,114.88	
34 41 13 00-0168	EA	35' Steel Straight Mast Arm, MONOTUBE.....	3,736.77	
34 41 13 00-0169	EA	40' Steel Straight Mast Arm, MONOTUBE.....	4,007.58	
34 41 13 00-0170	EA	45' Steel Straight Mast Arm, MONOTUBE.....	4,412.23	
34 41 13 00-0171	EA	50' Steel Straight Mast Arm, MONOTUBE.....	5,007.28	
34 41 13 00-0172	EA	55' Steel Straight Mast Arm, MONOTUBE.....	5,713.19	
34 41 13 00-0173	EA	60' Steel Straight Mast Arm, MONOTUBE.....	6,188.58	
34 41 13 00-0174	EA	65' Steel Straight Mast Arm, MONOTUBE.....	7,175.95	
34 41 13 00-0175	EA	4' Steel Curved Luminaire Mast Arm	715.63	
		For High Rise Arm, Add	56.33	
		For High Rise Straight Arm, Add	45.07	
34 41 13 00-0176	EA	6' Steel Curved Luminaire Mast Arm	928.44	
		For High Rise Arm, Add	75.31	
		For High Rise Straight Arm, Add	60.25	
34 41 13 00-0177	EA	8' Steel Curved Luminaire Mast Arm	1,161.55	
		For High Rise Arm, Add	94.29	
		For High Rise Straight Arm, Add	75.43	
34 41 13 00-0178	EA	10' Steel Curved Luminaire Mast Arm	1,609.38	
		For High Rise Arm, Add	110.86	
		For High Rise Straight Arm, Add	88.69	
34 41 13 00-0179	EA	12' Steel Curved Luminaire Mast Arm	1,770.01	
		For High Rise Arm, Add	130.74	
		For High Rise Straight Arm, Add	104.59	
34 41 13 00-0180	EA	15' Steel Curved Luminaire Mast Arm	1,842.35	
		For High Rise Arm, Add	145.80	
		For High Rise Straight Arm, Add	116.64	
34 41 13 00-0181	EA	20' Steel Curved Luminaire Mast Arm	2,086.35	
		For High Rise Arm, Add	174.12	
34 41 13 00-0182	EA	15' Tubular Aluminum Post.....	760.47	
34 41 13 00-0183	EA	17' Tubular Aluminum Post.....	812.02	
34 41 13 00-0184	EA	20' Tubular Aluminum Post.....	904.92	
34 41 13 00-0185	EA	CUT-OFF POLE AND CAPPED	138.89	
34 41 13 00-0186	EA	PAINT EXISTING SL/TS CONTROLLER COMPLETE	41.28	
34 41 13 00-0187	EA	PAINT EXISTING TS POST COMPLETE.....	196.88	
34 41 13 00-0188	EA	1 Channel Loop Detector Amp.....	1,096.30	
34 41 13 00-0189	EA	4 Channel Loop Detector Amp.....	2,055.32	
34 41 13 00-0190	EA	FLASHING BEACON WITH DOWNLIGHT	1,609.99	
34 41 13 00-0191	EA	Flashing Beacon, Bracket Mounted	573.98	
34 41 13 00-0192	EA	Flashing Beacon, Mast Arm Mounted.....	573.98	
34 41 13 00-0193	EA	Flashing Beacon, Solar Powered, Bracket Mounted.....	13,960.98	
34 41 13 00-0194	EA	Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	2,299.06	
34 41 13 00-0195	EA	Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US)	1,244.79	
34 41 13 00-0196	EA	Smart Sensor HD (Wavetronix HD125)	6,530.74	
34 41 13 00-0197	EA	Access Point (Sensys AP240-ES)	3,031.60	
		Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41 13 00-0198	EA	Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	5,230.80	
34 41 13 00-0199	EA	Mounting Kit for Access Points and Repeaters (KIT-MTG).....	196.51	
34 41 13 00-0200	EA	Repeater (Sensys RP240-B-LL)	1,389.84	
		Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41 13 00-0201	EA	Wireless Flush Mounted Sensor (Sensys VSN240-F)	638.71	
		Note: Excludes coring.		

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0202	EA	Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug	1,607.04	
34 41 13 00-0203	EA	Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	4,482.31	1.34
34 41 13 00-0204	EA	Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles.....	5,837.50	1.34
34 41 13 00-0205	EA	Pole Base Foundation for Type 15 and 21 Poles.....	3,516.01	1.34
34 41 13 00-0206	EA	Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles.....	4,482.31	1.34
34 41 13 00-0207	EA	Pole Base Foundation for 26-4-100 And 27-4-100 Poles.....	5,837.50	1.34
34 41 13 00-0208	EA	Service Equipment Enclosure, Type III-AF	843.43	
34 41 13 00-0209	EA	12", 3 Section Signal, Mast Arm Mounted.....	1,143.97	
34 41 13 00-0210	EA	8", 3 Section Signal, Mast Arm Mounted.....	1,022.01	
34 41 13 00-0211	EA	12" FCV Visor	62.32	
34 41 13 00-0212	EA	8" FCV Visor	45.67	
34 41 13 00-0213	EA	Eggcrate Visor	60.26	
34 41 13 00-0214	EA	Pedestrian H/M	717.54	
34 41 13 00-0215	EA	Pedestrian Audio.....	778.91	
34 41 13 00-0216	EA	Adjustable Pushbutton	207.94	
34 41 13 00-0217	EA	ADA Cap And Switch.....	253.79	
34 41 13 00-0218	EA	3 Section 12" Backplate.....	102.85	
34 41 13 00-0219	EA	3 Section 12" MAS Mount Backplate	151.79	
34 41 13 00-0220	EA	3 Section 8" Backplate.....	83.81	
34 41 13 00-0221	EA	12" Red LED Lenses.....	172.74	
34 41 13 00-0222	EA	12" Amber LED Lenses.....	184.20	
34 41 13 00-0223	EA	12" Green LED Lenses.....	309.94	
34 41 13 00-0224	EA	12" Red Arrow.....	171.81	
34 41 13 00-0225	EA	12" Amber Arrow.....	163.42	
34 41 13 00-0226	EA	12" Green Arrow	236.97	
34 41 13 00-0227	EA	8" Red	170.11	
34 41 13 00-0228	EA	8" Amber	163.91	
34 41 13 00-0229	EA	8" Green.....	194.50	
34 41 13 00-0230	EA	Hand/Man	291.01	
34 41 13 00-0231	EA	Frameworks, 8" TV-1-T.....	355.39	
34 41 13 00-0232	EA	Frameworks, 8" TV-2-T.....	399.91	
34 41 13 00-0233	EA	Frameworks, MAT MT	108.62	
34 41 13 00-0234	EA	Frameworks, MAS MT	117.52	
34 41 13 00-0235	EA	Frameworks, 3W PT TC	270.78	
34 41 13 00-0236	EA	Frameworks, 2W PT TC	235.69	
34 41 13 00-0237	EA	Frameworks, 2W SM TC.....	223.81	
34 41 13 00-0238	EA	Frameworks, SV-1	150.31	
34 41 13 00-0239	EA	Frameworks, TV-1	145.85	
34 41 13 00-0240	EA	Type III Service Pedestal	2,693.99	
34 41 13 00-0241	EA	Single Fuse Holder	28.82	
34 41 13 00-0242	EA	Double Fuse Holder.....	66.20	
34 41 13 00-0243	EA	Pullbox, 1-1/2" x 20" x 14".....	66.98	
34 41 13 00-0244	EA	Pullbox, 5" x 28" x 18".....	89.19	
34 41 13 00-0245	EA	Pullbox, 6" x 36" x 23".....	115.51	
34 41 13 00-0246	EA	Pullbox Lids, FL9D.....	65.79	
34 41 13 00-0247	EA	Pullbox Lids, FL30D.....	120.27	
34 41 13 00-0248	EA	Pullbox Lids, FL36D.....	31.87	
34 41 13 00-0249	EA	LED Enhanced Pedestrian Crossing Symbol Sign.....	1,152.17	83.64
		Note: 2 required per system.		
34 41 13 00-0250	EA	42" Height, 8-1/2" Diameter Automatic Bollard Activation System.....	3,388.44	501.89
		Note: 4 required per system.		
34 41 13 00-0251	EA	Power Control Unit With Enclosure (Solar).....	11,239.91	334.59
		Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).		
34 41 13 00-0252	EA	Power Control Unit With Enclosure (A/C)	7,265.58	334.59
34 41 13 00-0253	EA	Push Button Assembly With Sign.....	705.64	167.30
34 41 13 00-0254	EA	Advanced Warning Signs.....	1,315.80	167.30
34 41 13 00-0255	EA	14' High Galvanized Steel Traffic Signal Pole.....	2,496.28	
		Note: For mast arm.		
34 41 13 00-0256	EA	21' High Galvanized Steel Traffic Signal Pole.....	3,741.42	
		Note: For mast arm.		
34 41 13 00-0257	EA	22' High Galvanized Steel Traffic Signal Pole.....	3,882.00	
		Note: For mast arm and luminare arm.		
34 41 13 00-0258	EA	30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm	5,249.72	
		Note: For mast arm and luminare arm.		
34 41 13 00-0259	EA	32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm.....	5,508.72	
		Note: For mast arm and luminare arm.		
34 41 13 00-0260	EA	30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm.....	4,358.30	
34 41 13 00-0261	EA	30' High Galvanized Steel Traffic Signal Pole, Octafute.....	3,900.55	
34 41 13 00-0262	EA	30' (High Spun Aluminum Traffic Signal Pole, Tapered	3,208.19	
34 41 13 00-0263	EA	Type 26-6-70 Signal Pole With 55' SMA And 20' LMA.....	14,660.80	
34 41 13 00-0264	EA	Type 29-6-70 Signal Pole With 65' SMA And 20' LMA.....	17,011.17	
34 41 13 00-0265		Traffic Signal Cable (34 41 13)		
34 41 13 00-0266	LF	16 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	1.58	0.70
34 41 13 00-0267	LF	16 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	1.74	0.76
34 41 13 00-0268	LF	16 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	1.91	0.81
34 41 13 00-0269	LF	16 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	2.07	0.86



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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0270	LF	16 AWG, 6-Conductor, Solid, Traffic Signal Cable	2.25	0.91	
34 41 13 00-0271	LF	16 AWG, 8-Conductor, Solid, Traffic Signal Cable	2.59	1.01	
34 41 13 00-0272	LF	16 AWG, 10-Conductor, Solid, Traffic Signal Cable	3.03	1.16	
34 41 13 00-0273	LF	16 AWG, 12-Conductor, Solid, Traffic Signal Cable	3.47	1.31	
34 41 13 00-0274	LF	16 AWG, 16-Conductor, Solid, Traffic Signal Cable	4.04	1.47	
34 41 13 00-0275	LF	16 AWG, 20-Conductor, Solid, Traffic Signal Cable	4.72	1.62	
34 41 13 00-0276	LF	14 AWG, 2-Conductor, Solid, Traffic Signal Cable	1.61	0.70	
34 41 13 00-0277	LF	14 AWG, 3-Conductor, Solid, Traffic Signal Cable	1.79	0.76	
34 41 13 00-0278	LF	14 AWG, 4-Conductor, Solid, Traffic Signal Cable	1.98	0.81	
34 41 13 00-0279	LF	14 AWG, 5-Conductor, Solid, Traffic Signal Cable	2.15	0.86	
34 41 13 00-0280	LF	14 AWG, 6-Conductor, Solid, Traffic Signal Cable	2.36	0.91	
34 41 13 00-0281	LF	14 AWG, 8-Conductor, Solid, Traffic Signal Cable	2.73	1.01	
34 41 13 00-0282	LF	14 AWG, 10-Conductor, Solid, Traffic Signal Cable	3.21	1.16	
34 41 13 00-0283	LF	14 AWG, 12-Conductor, Solid, Traffic Signal Cable	3.67	1.31	
34 41 13 00-0284	LF	14 AWG, 16-Conductor, Solid, Traffic Signal Cable	4.32	1.47	
34 41 13 00-0285	LF	14 AWG, 20-Conductor, Solid, Traffic Signal Cable	5.09	1.62	
34 41 13 00-0286	LF	12 AWG, 2-Conductor, Solid, Traffic Signal Cable	1.71	0.70	
34 41 13 00-0287	LF	12 AWG, 3-Conductor, Solid, Traffic Signal Cable	1.93	0.76	
34 41 13 00-0288	LF	12 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.16	0.81	
34 41 13 00-0289	LF	12 AWG, 5-Conductor, Solid, Traffic Signal Cable	2.36	0.86	
34 41 13 00-0290	LF	12 AWG, 6-Conductor, Solid, Traffic Signal Cable	2.62	0.91	
34 41 13 00-0291	LF	12 AWG, 8-Conductor, Solid, Traffic Signal Cable	3.07	1.01	
34 41 13 00-0292	LF	12 AWG, 10-Conductor, Solid, Traffic Signal Cable	3.63	1.16	
34 41 13 00-0293	LF	12 AWG, 12-Conductor, Solid, Traffic Signal Cable	4.18	1.31	
34 41 13 00-0294	LF	12 AWG, 16-Conductor, Solid, Traffic Signal Cable	4.99	1.47	
34 41 13 00-0295	LF	12 AWG, 20-Conductor, Solid, Traffic Signal Cable	5.98	1.62	
34 41 13 00-0296	School Zone Flasher Beacons (34 41 13)				
34 41 13 00-0297	EA	One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	3,391.81	152.52	
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0298	EA	One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	3,415.53	152.52	
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0299	EA	Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	3,818.38	152.52	
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0300	EA	Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	3,894.31	152.52	
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0301	EA	10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	7,101.15	152.52	
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0302	EA	10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	7,398.71	152.52	
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.					
34 41 13 00-0303	Traffic Light Control Synchronization (34 41 13)				
34 41 13 00-0304	EA	ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	2,971.98		
34 41 13 00-0305	EA	ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	2,238.44		
34 41 13 00-0306	EA	ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24)	5,272.35		
34 41 13 00-0307	EA	5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	3,540.93		
34 41 13 00-0308	EA	2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	3,540.93		
34 41 13 00-0309	EA	Solar Cabinet Assembly	9,769.73		
34 41 13 00-0310	EA	Data Controller Interface Cable Assembly	401.66		
34 41 13 00-0311	EA	900 MHz Splitter.....	447.29		
34 41 13 00-0312	EA	900 MHz Surge Suppressor.....	158.94		
34 41 13 00-0313	EA	Surge-Radio Lead in Cable.....	99.86		
34 41 13 00-0314	EA	12DB GAIN YAGI Antenna	476.54		
34 41 13 00-0315	EA	PELCO Antenna Mounting Bracket	331.77		
34 41 13 00-0316	MLF	Coaxial Cable, LMR-400.....	2,426.81		
34 41 13 00-0317	EA	Perle 16 Port Serial Server	2,777.73		
34 41 13 00-0318	EA	Serial to Ethernet Card	1,383.60		
34 41 13 00-0319	EA	404 Stand Alone Modem (GDI 404).....	1,225.30		
34 41 13 00-0320	Traffic Signal Controls (34 41 13)				
34 41 13 00-0321	EA	Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2)	1,109.41		
34 41 13 00-0322	EA	Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	430.51		
34 41 13 00-0323	EA	AccessBox for contract closure master card (CC-ACC)	153.85		
34 41 13 00-0324	EA	Flush Mount Wireless Sensor (ATT VSN240-F)	596.15		
34 41 13 00-0325	EA	Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	596.15		
34 41 13 00-0326	EA	Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX)	92.63		
34 41 13 00-0327	EA	SNAPS License for each enabled AP (SNAPS-PER-AP)	249.21		
34 41 13 00-0328	Traffic Signal Devices (34 41 13)				

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0329 EA 12" Polycarbonate Signal Head Housing (McCain).....	578.56	75.29
34 41 13 00-0330 EA 16" Polycarbonate Pedestrian Signal Housing (McCain).....	304.35	58.56
34 41 13 00-0331 EA Pedestrian Push Button Cap & Switch (McCain M31334)	260.29	108.74
34 41 13 00-0332 EA Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712)	360.66	158.93
34 41 13 00-0333 EA Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793)	278.76	125.47
34 41 13 00-0334 EA 16 Channel Conflict Monitor (McCain 2010 ECLIP).....	841.69	54.37
34 41 13 00-0335 EA LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	177.72	20.91
34 41 13 00-0336 EA Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	1,890.68	92.01
34 41 13 00-0337 EA Camera processor card (Iteris Edge Connect).....	4,280.17	133.83
34 41 13 00-0338 EA Wireless Broadband Radio (Encorn BB58).....	4,041.42	125.47
34 41 13 00-0339 EA 24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900)	2,677.81	100.37
34 41 13 00-0340 EA Power Adapter (Mean Well DR-120-48)	107.26	31.36
34 41 13 00-0341 LF 14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	0.68	
34 41 13 00-0342 EA Radar Detection System (Wavetronix Matrix).....	7,883.57	317.86
34 41 13 00-0343 EA Pedestrian Audio Push Button (Polara APS)	265.69	79.46
34 41 13 00-0344 EA Opticom Infrared System - Detector (GTT 711)	626.45	74.61
34 41 13 00-0345 EA Opticom Infrared System - Detector (GTT 721)	700.89	83.48
34 41 13 00-0346 EA Opticom Infrared System - Detector (GTT 722)	976.19	116.27
34 41 13 00-0347 EA Opticom Multimode Phase Selector (GTT 764)	3,081.02	68.72
34 41 13 00-0348 LF Opticom GPS Installation Cable (GTT 1070)	0.81	
34 41 13 00-0349 EA Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324).....	527.79	
34 41 13 00-0350 EA Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730).....	559.65	
34 41 13 00-0351 EA UPS Module (Alpha Technologies FXM 350)	849.00	45.75
Note: For battery backup in traffic signal control cabinet		
34 41 13 00-0352 EA Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual)	278.54	37.64
Note: To control flashing "School" signs		
34 41 13 00-0353 LF Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR).....	5.99	0.38
34 41 13 00-0354 LF Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber)	1.55	0.33
34 41 13 00-0355 EA 12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	92.70	37.64
34 41 13 00-0356 EA 12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	92.70	37.64
34 41 13 00-0357 EA 12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	92.70	37.64
34 41 13 00-0358 EA 12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	92.70	37.64
34 41 13 00-0359 EA 12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	92.70	37.64
34 41 13 00-0360 EA 12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	92.70	37.64
34 41 13 00-0361 EA LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA)	267.60	96.19
34 41 13 00-0362 EA EOC Switch (Actellis ML688).....	3,089.73	297.36
34 41 13 00-0363 EA Ethernet Extender Kit (ENABLE-IT 860 Pro)	826.25	68.62
34 41 13 00-0364 EA #5 pull box lid (Concrete, Bolt down) (Christy N30T)	72.57	17.84
34 41 13 00-0365 EA #5 pull box lid (Steel, Bolt down) (Christy N30-61J)	240.34	25.83
34 41 13 00-0366 EA #6 pull box lid (Concrete, Bolt down) (Christy N36T)	88.04	17.84
34 41 13 00-0367 EA #6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	288.22	25.83
34 41 13 00-0368 EA Battery Back-up (Alpha FXM110 UPS)	1,947.70	91.50
34 41 13 00-0369 EA Battery (Alpha AlphaCell 220GXL).....	281.04	22.88
34 41 13 00-0370 EA BBS Cabinet (Alpha SE48-1616).....	2,294.08	205.87
34 41 13 00-0371 LF Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	4.28	1.78
34 41 13 00-0372 LF Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	1.90	0.82
34 41 13 00-0373 EA FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	715.22	68.62
34 41 13 00-0374 EA 12" THREE SECTION HOUSING (McCain M22435)	491.50	45.75
34 41 13 00-0375 EA 12" FOUR SECTION HOUSING (McCain M30883)	637.25	68.62
34 41 13 00-0376 EA 12" FIVE SECTION HOUSING (McCain M31769).....	737.25	68.62
34 41 13 00-0377 EA 12" CLUSTER, WITHOUT MAS (McCain M30987)	787.25	68.62
34 41 13 00-0378 EA CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	491.50	45.75
34 41 13 00-0379 EA NAVIGATOR iN2 APS 2 WIRE PPB #IN250N0-B (Polara iN250N0-B).....	491.50	45.75
34 41 13 00-0380 EA NAVIGATOR iN2 CONTROLLER RACK MOUNT ICCU-C (Polara ICCU-C).....	2,820.24	160.11
34 41 13 00-0381 EA NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polara iN2-ICB-C).....	145.75	22.88
34 41 13 00-0382 EA NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polara iN2-150-WPS-C).....	145.75	22.88
34 41 13 00-0383 EA NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polara iN2-c4cable-C)	318.62	34.31
34 41 13 00-0384 EA 12" Visor (McCain M19302).....	28.30	9.15
34 41 13 00-0385 EA LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256)	268.62	34.31
34 41 13 00-0386 EA SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258)	441.50	45.75
34 41 13 00-0387 EA CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259)	812.25	68.62
34 41 13 00-0388 EA ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487)	441.50	45.75
34 41 13 00-0389 EA HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	95.75	22.88
34 41 13 00-0390 EA ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	268.62	34.31
34 41 13 00-0391 EA CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	491.50	45.75
34 41 13 00-0392 EA 242L ISOLATOR, EDI (McCain M56812)	95.75	22.88
34 41 13 00-0393 EA EDI 222 DETECTOR (McCain M11407).....	120.75	22.88
34 41 13 00-0394 EA ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763).....	1,928.74	114.37
34 41 13 00-0395 EA GENERATOR SWITCH AND PLUG ASS'Y FOR ALPHA BBS (McCain M68752-2).....	331.50	45.75
34 41 13 00-0396 EA BBS BATTERY, ALPHACELL 165GXL (McCain M59884).....	441.50	45.75
34 41 13 00-0397 EA Battery Backup Cabinet Anondize 44x26x12 (McCain M64438A)	912.25	68.62

34 41 16 Traffic Control Equipment (34 41)**34 41 16 00-0001 Transportation Control Equipment (34 41 16)**

34 41 16 00-0002 EA CONTROLLER/SL/POLE MTD/1-PHASE/100A.....	6,875.19	701.67
34 41 16 00-0003 EA CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	6,956.03	742.07
34 41 16 00-0004 EA CONTROLLER, SL, 3-PHASE, 100A, BASE MTD	8,454.42	750.80
34 41 16 00-0005 EA CONTROLLER, SL, 3-PHASE, 200A, BASE MTD	10,053.20	911.61



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0006 EA CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	8,219.68	449.71
34 41 16 00-0007 EA CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	9,112.29	492.35
34 41 16 00-0008 EA CONTROLLER, TS, 12-BAY, "M" CABINET	15,003.71	774.05
34 41 16 00-0009 EA CONTROLLER, TS, 12-BAY, "P" CABINET	15,974.53	857.80
34 41 16 00-0010 EA CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER	22,815.10	964.40
34 41 16 00-0011 EA CONTROLLER, TS, 16-BAY, "P" CABINET	18,094.49	913.64
34 41 16 00-0012 EA CONTROLLER, PEDESTRIAN CROSSING, ADD-IN	545.88	107.30
34 41 16 00-0013 EA CONCRETE BLOCK PEDESTAL	645.21	161.10
34 41 16 00-0014 WK MAINTAIN EXIST TS INSTALLATION	254.30	127.15
34 41 16 00-0015 EA INST SIGN BOARDS, ST. NAME.....	448.21	212.47
34 41 16 00-0016 EA F.O. ADD-IN FOR LOCAL CONTROLLER.....	7,601.15	286.33
34 41 16 00-0017 EA F.O. ADD-IN FOR MASTER CONTROLLER.....	18,331.36	429.61
34 41 16 00-0018 Transportation Cabinets (34 41 16)		
34 41 16 00-0019 Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0018)		
34 41 16 00-0020 EA 50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures).....	1,611.45	137.25
34 41 16 00-0021 EA 66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures).....	6,678.44	137.25
34 41 16 00-0022 EA 46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures).....	1,510.34	137.25
34 41 16 00-0023 EA 50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures).....	1,611.45	137.25
34 41 16 00-0024 EA 60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	6,903.14	137.25
34 41 16 00-0025 EA 55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures).....	1,060.94	137.25
34 41 16 00-0026 Transportation Cabinets (APX Enclosures) (34 41 16 00-0018)		
34 41 16 00-0027 EA 28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017).....	3,848.44	160.11
Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.		
34 41 16 00-0028 Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0018)		
34 41 16 00-0029 EA 30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S)	1,521.78	137.25
34 41 16 00-0030 EA 30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S)	1,886.55	146.40
34 41 16 00-0031 Transportation Cabinets (McCain) (34 41 16 00-0018)		
34 41 16 00-0032 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i)	6,968.15	160.11
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0033 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332)	6,968.15	160.11
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0034 EA ATC ColdFire Controller (McCain 170).....	3,615.05	
34 41 16 00-0035 Traffic Control Equipment (34 41 16)		
34 41 16 00-0036 EA ProStar PWM Charge Controller 12/24V, 15A Without Display (Morningstar PS-15).....	196.36	45.75
34 41 16 00-0037 EA ProStar PWM Charge Controller 12/24V, 15A With Display (Morningstar PS-15M).....	253.19	45.75
34 41 16 00-0038 EA ProStar PWM Charge Controller 12/24V, 30A With Display (Morningstar PS-30M).....	289.28	45.75
34 41 16 00-0039 EA ProStar PWM Charge Controller 12/24V, 30A Without Display (Morningstar PS-30).....	227.92	45.75
34 41 16 00-0040 MLF 10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R)	1,818.14	501.89
34 41 16 00-0041 EA Vehicle Detector, Circuit Breaker, 0.2 Amp, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02)	80.40	22.88
34 41 16 00-0042 EA Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141)	344.22	50.84
34 41 16 00-0043 EA Detection System, Vehicle, Two Sensor Preamsembled Backplate, with AC Power (Wavetronix WX-SSB01-0003).....	1,760.22	152.52
34 41 16 00-0044 EA Vehicle Detector, Power Supply, 24V DC 4 A (Wavetronix WX-CLK-204)	317.15	22.88
34 41 16 00-0045 EA Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114)	449.96	22.88
34 41 16 00-0046 EA 4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104)	524.59	45.75
34 41 16 00-0047 EA Detection System, Vehicle, Four Sensor Preamsembled Backplate, With AC Power, Wavetronix SmartSensor (Wavetronix WX-SS-B01-0005).....	2,239.60	45.75
34 41 16 00-0048 EA 50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060).....	305.05	152.52
34 41 16 00-0049 EA 60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060).....	336.11	38.13
34 41 16 00-0050 EA 900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119)	298.02	50.84
34 41 16 00-0051 EA 900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120).....	194.08	50.84
34 41 16 00-0052 EA Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201).....	201.66	22.88
34 41 16 00-0053 EA 24V DC 2 A, Wavetronix SmartSensor (Wavetronix WX-CLK-202)	242.08	22.88
34 41 16 00-0054 EA Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250)	115.04	22.88
34 41 16 00-0055 EA Power, RS232/RS485 Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-200).....	322.92	22.88
34 41 16 00-0056 EA Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222).....	363.35	22.88
34 41 16 00-0057 EA RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304)	449.96	22.88
34 41 16 00-0058 EA Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301)	45.75	22.88
34 41 16 00-0059 EA Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611).....	303.80	50.84
34 41 16 00-0060 MLF LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400).....	2,106.86	501.89
34 41 16 00-0061 EA N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC).....	40.15	13.73
34 41 16 00-0062 EA Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	597.51	54.90
34 41 16 00-0063 EA Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco Id53hdpb-1).....	586.45	68.62
34 41 16 00-0064 EA 24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	177.28	22.88
34 41 16 00-0065 EA 10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	127.33	22.88
34 41 16 00-0066 EA 24 VAC, Remote Data Port (Pelco IPS-RDPE-2)	268.59	22.88
34 41 16 00-0067 EA Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	133.46	22.88

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0068 EA 120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	58.89	22.88
34 41 16 00-0069 EA Control Area Network Direct Current Input/Output (Daktronics OP-1247-0009)	437.97	45.75
Note: Input/Output for sign peripherals.		
34 41 16 00-0070 EA Control Area Network Direct Current Input/Output (Daktronics OP-1247-4009)	437.97	45.75
Note: Input/Output for sign peripherals.		
34 41 16 00-0071 EA Control Area Network Distribution Board (Daktronics OP-1248-0005)	813.31	45.75
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0072 EA Control Area Network Distribution Board (Daktronics OP-1248-0011)	813.31	45.75
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0073 EA Control Area Network Temperature And Light Sensor (Daktronics OP-1247-0019)	287.83	45.75
Note: Measures temperature and detects light and reports to CAN Dist Board.		
34 41 16 00-0074 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics OP-1247-0015)	403.32	45.75
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0075 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics OP-1247-0021)	403.32	45.75
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0076 EA Control Area Network Temperature And Light Sensor (Daktronics OP-1247-0003)	334.03	45.75
Note: Measures temperature and detects light and reports to CAN Dist board.		
34 41 16 00-0077 EA Controller, VFC-3000 Field Controller NTCIPv1 (Daktronics OA-1248-0016)	5,563.01	182.99
Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0078 EA DC/DC, Direct Current to Direct Current Converter (Daktronics OP-1247-0025)	242.08	22.88
Note: Takes 24VDC input from two power supplies and outputs 9VDC for CAN Dist Board, providing power redundancy.		
34 41 16 00-0079 EA Driver (Daktronics OP-1100-0026)	454.32	36.59
Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0080 EA External Temp Sensor (Daktronics OP-1100-0014)	402.35	36.59
Note: Sensor that measures ambient temperature.		
34 41 16 00-0081 EA Internal Temp Sensor (Daktronics OP-1100-0038)	448.54	36.59
Note: Sensor that measures sign internal temperature.		
34 41 16 00-0082 EA Light Level Detector (Daktronics OP-1151-0002)	275.31	36.59
Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0083 EA Module (Daktronics OA-1253-0608)	813.31	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0084 EA Module (Daktronics OA-1253-3018)	1,015.42	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0085 EA Module (Daktronics OA-1266-5002)	899.93	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0086 EA Module (Daktronics OA-1332-6252)	1,246.40	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087 EA Module (Daktronics OA-1332-6455)	1,015.42	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0088 EA Module (Daktronics OA-1332-6654)	1,015.42	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089 EA Module (Daktronics OP-1332-3015)	553.46	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090 EA Module (Daktronics OP-1332-4116)	553.46	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091 EA Module (Daktronics OP-1332-5031)	553.46	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092 EA Module (Daktronics OP-1332-5017)	553.46	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0093 EA Module Without Pan (Daktronics OA-1253-0603)	813.31	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0094 EA Module Without Pan (Daktronics OA-1253-1605)	813.31	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0095 EA Module Without Pan (Daktronics OA-1254-1601)	813.31	45.75
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0096 EA Pixel Strip (Daktronics OP-1100-0016)	293.61	45.75
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0097 EA Pixel Strip (Daktronics OP-1100-0029)	339.80	45.75
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0098 EA Power Supply (Daktronics A-1593)	957.67	45.75
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0099 EA Power Supply (Daktronics A-1648)	957.67	45.75
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0100 EA Power Supply (Daktronics A-2307)	380.22	45.75
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0101 EA Surge Suppressor (Daktronics A-1129)	158.84	27.45
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0102 EA Surge Suppressor (Daktronics A-1412)	314.75	27.45
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1772)	314.75	27.45
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-2139)	459.11	27.45
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0105 EA VCB, Vanguard Control Board (Daktronics OP-1248-0022)	778.66	45.75
Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.		
34 41 16 00-0106 EA VMS I/O, Variable Message Sign Input/Output (Daktronics OP-1194-0001)	1,044.29	45.75
Note: Input/Output board for sign peripherals.		



Transportation			34
Transportation Signaling and Control Equipment			34 40
Roadway Signaling and Control Equipment			34 41

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0107	EA		Power Supply Assembly (Daktronics A-1856R).....	697.82	45.75
34 41 16 00-0108	EA		Power Supply Isolation Board (Daktronics 0P-1447-2000).....	466.84	45.75
34 41 16 00-0109	EA		Ventilation/Circulation Fan (Daktronics B-1075).....	189.67	45.75
34 41 16 00-0110	EA		VMS Controller (V2) (Daktronics 0A-1248-0028).....	5,563.01	182.99
34 41 16 00-0111	EA		Photo/Temp Sensor (Daktronics 0P-1247-0015).....	403.32	45.75
34 41 16 00-0112	EA		Defog Fan (Daktronics B-1053).....	74.62	22.88
34 41 16 00-0113	EA		Defog Heater (Daktronics A-1792).....	91.95	22.88
34 41 16 00-0114	EA		Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF).....	524.59	45.75
34 41 16 00-0115	EA		Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF).....	524.59	45.75
34 41 16 00-0116	EA		1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R).....	676.63	45.82
34 41 16 00-0117	EA		1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	676.63	45.82
34 41 16 00-0118	EA		16-Port Video Encoder Featuring H.264 Technology (Verint S1816E).....	3,557.37	45.82
34 41 16 00-0119	EA		Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	867.36	45.82
34 41 16 00-0120	EA		110 VAC To 12 VDC At 45W Transformer (Verint PS1261).....	126.67	22.88
34 41 16 00-0121	EA		1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E).....	425.96	45.82
34 41 16 00-0122	EA		Single/Quad-Stream Decoder (Bosch VIP-XD).....	1,073.82	45.82
34 41 16 00-0123	EA		1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 VAC (Pelco WCS1-4).....	236.30	45.75
34 41 16 00-0124	EA		4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 VAC (Pelco WCS4-20B).....	531.76	45.75
34 41 16 00-0125	EA		12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750).....	165.94	11.45
34 41 16 00-0126	EA		30 Amp, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	624.50	118.94
34 41 16 00-0127	EA		30 Amp, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	17.87	7.31
34 41 16 00-0128	EA		60 Amp, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS).....	1,552.49	91.50
34 41 16 00-0129	EA		60 Amp, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	35.42	7.31
34 41 16 00-0130	EA		50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	1,360.95	50.84
34 41 16 00-0131	EA		Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	90.26	34.77
34 41 16 00-0132	EA		12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10- 4469).....	233.06	45.75
34 41 16 00-0133	EA		Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT).....	381.31	11.91
34 41 16 00-0134	EA		Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H)).....	410.52	11.91
34 41 16 00-0135	EA		550W, 120VAC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	223.88	18.30
34 41 16 00-0136	EA		10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	2,682.85	109.79
34 41 16 00-0137	EA		12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC).....	105.93	21.04
34 41 16 00-0138	EA		6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK).....	26.66	4.58
34 41 16 00-0139	EA		170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,664.20	45.75
34 41 16 00-0140	EA		12 Port, Industrial Ethernet Layer 3 Switch (Cisco IE-4000-4GC4GP4G-E).....	5,146.95	109.79
34 41 16 00-0141	EA		2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000).....	2,014.65	150.97
34 41 16 00-0142	EA		100 Amp, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	572.82	261.68
34 41 16 00-0143	EA		70 Amp, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	399.67	182.99
34 41 16 00-0144	EA		60 Amp, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	77.36	24.70
34 41 16 00-0145	EA		15 Amp, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	57.36	16.47
34 41 16 00-0146	EA		15 Amp, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	46.91	16.47
34 41 16 00-0147	EA		20 Amp, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	46.91	16.47
34 41 16 00-0148	EA		One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC @ 4 Amp Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	236.30	45.75
34 41 16 00-0149	EA		DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC).....	188.95	22.91
34 41 16 00-0150	EA		H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC).....	1,679.81	22.91
34 41 16 00-0151	EA		Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	328.98	11.91
34 41 16 00-0152	EA		Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	6,731.47	152.52
34 41 16 00-0153	EA		Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	278.02	50.84

34 70 Transportation Construction And Equipment⁽³⁴⁾

34 71 Roadway Construction^(34 70)

34 71 13 Vehicle Barriers^(34 71)

34 71 13 13 Vehicle Median Barriers^(34 71 13)

34 71 13 13-0001 Concrete Median Barrier^(34 71 13 13)

34 71 13 13-0002	LF	Median Barrier, Precast, 42" High Single Face.....	60.67	3.21
34 71 13 13-0003	LF	Median Barrier, Precast, 32" High, 2' Wide Base, Double Face.....	77.10	3.21
34 71 13 13-0004	LF	Median Barrier, Precast, 42" High, 2' Wide Base, Double Face.....	94.91	3.21
34 71 13 13-0005	LF	Median Barrier, Cast In Place With Steel Forms.....	41.29	5.06
34 71 13 13-0006	LF	Median Barrier, Slipformed Concrete.....	33.85	2.58

34 71 13 16 Vehicle Crash Barriers^(34 71 13)

34 71 13 16-0001 Impact Barrier, Non-Redirective^(34 71 13 16)

34 71 13 16-0002 Sand Barrel Impact Attenuator^(34 71 13 16-0001)

Note: Includes containers, inserts, and lid. Excludes sand.

34 71 13 16-0003	EA	200, 400 Or 700 LB Sand Barrel.....	620.83	39.10
Note: Includes containers, inserts, and lid.				
34 71 13 16-0004	EA	1400 LB Sand Barrel.....	572.83	45.90
Note: Includes containers, inserts, and lid.				
34 71 13 16-0005	EA	2100 LB Sand Barrel.....	616.12	52.70
Note: Includes containers, inserts, and lid.				

34 Transportation**34 70 Transportation Construction And Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 16-0006 Sand For Sand Barrel Impact Attenuator (34 71 13 16-0001)		
34 71 13 16-0007 LB Sand for Sand Barrels.....	0.08	
34 71 13 26 Vehicle Guide Rails (34 71 13)		
34 71 13 26-0001 Mobilize Guide Rail Crew (34 71 13 26)		
34 71 13 26-0002 EA Mobilize Guide Rail Crew.....	989.66	
Note: Excludes equipment mobilization.		
34 71 13 26-0003 Corrugated Beam Guide Rail (34 71 13 26)		
34 71 13 26-0004 Corrugated Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0005 Corrugated Beam Guide Railing, Straight Sections (34 71 13 26-0004)		
Note: Add additional length for back-up sections.		
34 71 13 26-0006 LF Corrugated Beam Guide Railing	8.54	1.77
34 71 13 26-0007 LF Corrugated Beam Guide Railing (Rustic).....	9.11	1.77
34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved (34 71 13 26-0004)		
Note: Add additional length for back-up sections.		
34 71 13 26-0009 LF Shop Curved Corrugated Beam Guide Railing	10.76	1.77
34 71 13 26-0010 LF Shop Curved Corrugated Beam Guide Railing (Rustic).....	11.55	1.77
34 71 13 26-0011 LF Shop Curved Corrugated Beam Guide Railing End.....	25.63	1.77
Note: Treatment for mall barriers driveways, walkways, special end, etc.		
34 71 13 26-0012 LF Shop Curved Corrugated Beam Guide Railing (Rustic) End.....	27.84	1.77
Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.		
34 71 13 26-0013 Corrugated Beam Guide Railing, Manufactured End Sections (34 71 13 26-0003)		
34 71 13 26-0014 EA Corrugated Beam Guide Railing End Section At Anchor Unit.....	71.68	23.33
34 71 13 26-0015 EA Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit.....	74.70	23.33
34 71 13 26-0016 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section	89.84	23.33
34 71 13 26-0017 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	92.87	23.33
34 71 13 26-0018 EA Corrugated Beam Guide Railing 225 Degree End Section	89.84	23.33
34 71 13 26-0019 EA Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	92.87	23.33
34 71 13 26-0020 Corrugated Beam Guide Rail End Terminal Systems (34 71 13 26-0003)		
Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.		
34 71 13 26-0021 EA Regent Flared End Terminal Head With Bracket, Type B & C.....	1,931.29	142.94
34 71 13 26-0022 EA Fleet Flared End Terminal Head With Bracket.....	1,628.56	142.94
34 71 13 26-0023 EA SKT 350 Tangent End Terminal Head With Bracket.....	1,931.29	142.94
34 71 13 26-0024 EA 12'-6" Corrugated Beam Pre-drilled #1 Panel.....	316.89	67.38
34 71 13 26-0025 EA Terminal Support System, Type SFT	645.33	180.18
34 71 13 26-0026 EA Terminal Support System, Type ET.....	2,979.98	509.94
34 71 13 26-0027 EA Terminal Support System, Type SRT	3,211.26	509.94
34 71 13 26-0028 Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
Note: Includes mounting hardware.		
34 71 13 26-0029 EA Standard Post For Corrugated Beam Guide Rail	64.25	11.86
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	3.16	
34 71 13 26-0030 EA Standard Post For (Rustic) Corrugated Beam Guide Rail.....	67.27	11.86
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	3.16	
34 71 13 26-0031 EA Extra Long Post for Corrugated Beam Guide Rail	70.30	11.86
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	3.16	
34 71 13 26-0032 EA Extra Long Post (Rustic) for Corrugated Beam Guide Rail	73.33	11.86
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	3.16	
34 71 13 26-0033 EA 6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail	64.25	11.86
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	3.16	
34 71 13 26-0034 EA Post Struts for Corrugated Beam Guide Rail Mall Barrier Post.....	88.47	11.86
For Installation In Rock, Add	3.16	
34 71 13 26-0035 Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71 13 26-0036 EA Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	64.25	11.86
34 71 13 26-0037 EA Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	67.27	11.86
34 71 13 26-0038 EA Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide.....	70.30	11.86
34 71 13 26-0039 EA Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail.....	73.33	11.86
Note: For heavy post blocked out corrugated beam guide (rustic)		
34 71 13 26-0040 EA Type A Post 1630mm Post	62.73	11.86
Note: For heavy post blocked out corrugated beam guide rail		



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Transportation Construction And Equipment			34 70
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0041 EA Type A Post 1630mm Post (Rustic).....	65.76	11.86
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0042 EA Type B Post 1460mm	59.71	11.86
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0043 EA Type B Post 1460mm (Rustic).....	62.73	11.86
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0044 EA Type C Post 1290mm	56.68	11.86
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0045 EA Type C Post 1290mm (Rustic).....	59.71	11.86
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0046 EA Breakaway Wood Or Steel Post In Steel Foundation Tube	216.10	11.86
34 71 13 26-0047 EA Wood, Metal, Plastic Or Composite Offset Block Or Beam	30.95	11.86
Note: For heavy post blocked out corrugated beam guide rail.		
34 71 13 26-0048 Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)		
34 71 13 26-0049 EA Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C.....	65.62	26.50
34 71 13 26-0050 Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003)		
Note: Includes associated hardware.		
34 71 13 26-0051 LF Removal And Storage Of Corrugated Beam Guide Railing And Post.....	10.36	
34 71 13 26-0052 EA Install Stored Post For Corrugated Beam Guide Rail	35.35	
34 71 13 26-0053 LF Install Stored Corrugated Beam Guide Railing And Post.....	6.01	
34 71 13 26-0054 Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0055 Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0054)		
Note: Add additional length for back-up sections.		
34 71 13 26-0056 LF Corrugated Thrie Beam Guide Railing.....	18.43	2.23
34 71 13 26-0057 LF Corrugated Thrie Beam Guide Railing (Rustic).....	19.35	2.23
34 71 13 26-0058 Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0054)		
Note: Add additional length for back-up sections.		
34 71 13 26-0059 LF Shop Curved Corrugated Thrie Beam Guide Railing.....	22.12	2.23
34 71 13 26-0060 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	23.04	2.23
34 71 13 26-0061 Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0054)		
Note: Includes hardware for mounting.		
34 71 13 26-0062 EA Standard Post For Corrugated Thrie Beam Guide Rail.....	69.57	2.23
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0063 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail	72.60	2.23
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0064 Timber Guide Rails (34 71 13 26)		
Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065 Timber Guide Rail Posts (34 71 13 26-0064)		
34 71 13 26-0066 EA 6" x 8" Timber Guide Rail Post	67.59	8.83
34 71 13 26-0067 EA 6" x 9" Timber Guide Rail Post	76.62	8.83
34 71 13 26-0068 EA 10" x 10" Timber Guide Rail Post	147.41	8.83
34 71 13 26-0069 EA 10" x 12" Timber Guide Rail Post	155.85	8.83
34 71 13 26-0070 EA 12" x 12" Timber Guide Rail Post	179.92	8.83
34 71 13 26-0071 Timber Guide Rails (34 71 13 26-0064)		
Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072 LF 4" x 9" Timber Guide Rail.....	8.38	1.06
34 71 13 26-0073 LF 6" x 10" Timber Guide Rail.....	11.63	1.06
34 71 13 26-0074 LF 6" x 12" Timber Guide Rail.....	13.53	1.06
34 71 13 26-0075 Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0076 EA 4" x 9" Spacer Block For Timber Guide Rails	10.92	1.41
34 71 13 26-0077 EA 6" x 8" Spacer Block For Timber Guide Rails	12.48	1.41
34 71 13 26-0078 EA 8" x 8" Spacer Block For Timber Guide Rails	14.47	1.41
34 71 13 26-0079 Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0080 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	14.79	0.89
34 71 13 26-0081 Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0082 EA Weathering Steel Splice Plate For Timber Guide Rails	105.21	12.37
34 71 13 26-0083 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails	66.39	8.83

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
34 71 13 26-0084	Cable Guide Rail (34 71 13 26)				
34 71 13 26-0085	Cable Guide Rail (34 71 13 26-0084)				
34 71 13 26-0086	LF Cable (Each Cable).....	5.12		1.91	
	Note: Includes tensioning. Excludes splices.				
34 71 13 26-0087	EA Cable Splice With Wedges	108.49		13.25	
34 71 13 26-0088	Cable Guide Rail Posts (34 71 13 26-0084)				
	Note: Includes hardware for cable mounting.				
34 71 13 26-0089	EA Standard Post for Cable Guide Rail	98.08		39.51	
	For Installation Without Soil Plate, Deduct	-5.00			
	For Installation In Rock, Add	10.53			
34 71 13 26-0090	EA Standard Post (Rustic) for Cable Guide Rail	101.11		39.51	
	For Installation Without Soil Plate, Deduct	-5.00			
	For Installation In Rock, Add	10.53			
34 71 13 26-0091	EA Extra Long Post for Cable Guide Rail	101.11		39.51	
	For Installation Without Soil Plate, Deduct	-5.00			
	For Installation In Rock, Add	10.53			
34 71 13 26-0092	EA Extra Long Post (Rustic) for Cable Guide Rail	104.13		39.51	
	For Installation Without Soil Plate, Deduct	-5.00			
	For Installation In Rock, Add	10.53			
34 71 13 26-0093	EA Slip Impact Post Top for Anchor Unit	57.40		15.81	
34 71 13 26-0094	EA Slip Impact Post Base and Keeper Plate	133.08		15.81	
	Note: For anchor unit.				
34 71 13 26-0095	Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)				
34 71 13 26-0096	EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors	339.04		177.08	
34 71 13 26-0097	EA Turnbuckle Cable End Assembly	72.36		8.85	
34 71 13 26-0098	EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors	217.77		4.40	
34 71 13 26-0099	EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle	223.83		4.40	
34 71 13 26-0100	EA Breakaway Anchor Angle	90.52		8.85	
34 71 13 26-0101	EA Standard End Post Cap Assembly	42.19		4.40	
34 71 13 26-0102	EA Driveway End Post Cap Assembly	36.13		4.40	
34 71 13 26-0103	EA End Post Ground Support Plates	21.00		4.40	
34 71 13 26-0104	EA 11" Stud Bolt, Cable Guide Rail	18.73		4.40	
34 71 13 26-0105	EA 18" Stud Bolt, Cable Guide Rail	21.75		4.40	
34 71 13 26-0106	EA 25" Stud Bolt, Cable Guide Rail	24.78		4.40	
34 71 13 26-0107	EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail	193.45		8.85	
34 71 13 26-0108	EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail	205.56		8.85	
34 71 13 26-0109	EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail	138.96		8.85	
34 71 13 26-0110	EA 5/8" Eye Bolt 18" Long, Cable Guide Rail	84.57		4.40	
34 71 13 26-0111	EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail	90.52		8.85	
34 71 13 26-0112	EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail	99.41		13.25	
34 71 13 26-0113	Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)				
34 71 13 26-0114	EA Turnbuckle Cable End Assembly	159.87		13.20	
	Note: For use with slip impact post.				
34 71 13 26-0115	EA Spring Cable End Assembly (Compensating Device)	305.18		13.20	
	Note: For use with slip impact post.				
34 71 13 26-0116	EA Anchor Angle For Slip Impact Post System	96.30		13.20	
34 71 13 26-0117	EA Cable End Assembly Rod	81.16		13.20	
	Note: Includes cable end, threaded rod and keeper to anchor angle.				
34 71 13 26-0118	Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0084)				
	Note: All tasks include associated hardware.				
34 71 13 26-0119	LF Retention Existing Cable (Each Cable)	1.18			
34 71 13 26-0120	LF Removal And Storage Of Cable Guide Railing	7.12			
34 71 13 26-0121	EA Install Stored Post For Cable Guide Railing	52.67			
34 71 13 26-0122	LF Install Stored Cable, (Each Cable)	3.15			
	Note: Includes retensioning. Excludes splices.				
34 71 13 26-0123	6" x 6" Box Beam Guide Rail (34 71 13 26)				
34 71 13 26-0124	Box Beam Guide Rail, 6" x 6" (34 71 13 26-0123)				
34 71 13 26-0125	Straight Sections, Box Beam Guide Rail (34 71 13 26-0124)				
34 71 13 26-0126	LF Box Beam Guide Railing 6" x 6" x 3/16" Galvanized	21.89		2.23	
	Note: Excludes splices.				
	For Flush Mounting Directly To Structure, Add	1.83			
34 71 13 26-0127	LF Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)	24.65		2.23	
	Note: Excludes splices.				
	For Flush Mounting Directly To Structure, Add	1.83			
34 71 13 26-0128	Shop Curved, Box Beam Guide Rail (34 71 13 26-0124)				



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		Transportation Construction And Equipment	34 70
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0129 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized.....	32.50	2.23
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0130 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)	35.27	2.23
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0131 Box Beam Guide Rail End Treatment Sections (34 71 13 26-0123)		
Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0132 EA Box Beam End Piece Guide Railing Section.....	338.08	26.50
Note: Galvanized excludes splices.		
34 71 13 26-0133 EA Box Beam End Piece Guide Railing Section (Rustic)	371.38	26.50
Note: Excludes splices.		
34 71 13 26-0134 EA Box Beam Guide Railing End Treatment Section At Driveway, Galvanized	319.92	26.50
Note: Excludes splices.		
34 71 13 26-0135 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic).....	332.03	26.50
Note: Excludes splices.		
34 71 13 26-0136 Splices For Box Beam Guide Rail (34 71 13 26-0123)		
34 71 13 26-0137 EA Splice For Box Beam Guide Rail	124.11	39.35
34 71 13 26-0138 EA Splice For Box Beam Guide Rail (Rustic)	145.30	39.35
34 71 13 26-0139 Box Beam Guide Rail Posts (34 71 13 26-0123)		
Note: Includes hardware for box beam mounting.		
34 71 13 26-0140 EA Standard Post For Box Beam Guide Rail	101.11	39.51
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.53	
34 71 13 26-0141 EA Standard Post (Rustic) for Box Beam Guide Railing.....	104.13	39.51
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.53	
34 71 13 26-0142 EA Extra Long Post For Box Beam Guide Rail	107.16	39.51
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.53	
34 71 13 26-0143 EA Extra Long Post (Rustic) For Box Beam Guide Rail	110.19	39.51
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.53	
34 71 13 26-0144 EA Type I End Assembly Post.....	98.08	39.51
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.53	
34 71 13 26-0145 EA Type I End Assembly Post (Rustic)	101.11	39.51
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.53	
34 71 13 26-0146 EA Type II End Assembly Post.....	95.05	39.51
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.53	
34 71 13 26-0147 EA Type II End Assembly Post (Rustic)	98.08	39.51
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.53	
34 71 13 26-0148 Box Beam Guide Rail Accessories (34 71 13 26-0123)		
34 71 13 26-0149 EA Box Beam Guide Rail End Cover Plate	46.94	7.95
34 71 13 26-0150 EA Box Beam Guide Rail End Cover Plate (Rustic)	49.96	7.95
34 71 13 26-0151 Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123)		
Note: For existing guide rail.		
34 71 13 26-0152 LF Removal And Storage Of Box Beam Guide Rail And Post	3.49	
34 71 13 26-0153 LF Reset Box Beam Guide Rail	10.19	
34 71 13 26-0154 6" x 8" Box Beam Median Barrier (34 71 13 26)		
34 71 13 26-0155 Box Beam Median Barrier, 6" x 8" (34 71 13 26-0154)		
34 71 13 26-0156 Straight Sections, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0157 LF Box Beam Median Barrier Galvanized Excludes Splices.....	39.68	7.95
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0158 LF Box Beam Median Barrier (Rustic) Excludes Splices	42.44	7.95
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0159 Shop Curved, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0160 LF Shop Curved Box Beam Median Barrier Galvanized	46.95	7.95
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0161	LF	Shop Curved Box Beam Median Barrier Rustic Note: Excludes splices. For Shop Curved At <20' Radius, Add For Flush Mounting Directly To Structure, Add	56.04 2.44 1.83	7.95
34 71 13 26-0162		Box Beam Median Barrier End Treatment Sections (34 71 13 26-0154) Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0163	EA	Box Beam Median Barrier Type A End Treatment Section, Galvanized Note: Excludes splices and post.	1,061.60	26.50
34 71 13 26-0164	EA	Box Beam Median Barrier Type A End Treatment Section (Rustic)..... Note: Excludes splices and post.	1,085.82	26.50
34 71 13 26-0165	EA	Box Beam Median Barrier Type B End Treatment Section, Galvanized Note: Excludes splices and post.	1,061.60	26.50
34 71 13 26-0166	EA	Box Beam Median Barrier Type B End Treatment Section (Rustic)..... Note: Excludes splices and post.	1,085.82	26.50
34 71 13 26-0167		Splices For Box Beam Median Barrier (34 71 13 26-0154)		
34 71 13 26-0168	EA	Splice for Box Beam Median Barrier	94.87	21.21
34 71 13 26-0169	EA	Splice for Box Beam Median Barrier (Rustic).....	140.28	21.21
34 71 13 26-0170		Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0154) Note: Includes all associated hardware.		
34 71 13 26-0171	EA	Standard Post for Box Beam Median Barrier For Installation Without Soil Plate, Deduct For Installation In Rock, Add	101.11 -5.00 10.53	39.51
34 71 13 26-0172	EA	Standard Post (Rustic) for Box Beam Median Barrier..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	104.13 -5.00 10.53	39.51
34 71 13 26-0173	EA	Extra Long Post for Box Beam Median Barrier For Installation Without Soil Plate, Deduct For Installation In Rock, Add	107.16 -5.00 10.53	39.51
34 71 13 26-0174	EA	Extra Long Post (Rustic) for Box Beam Median Barrier For Installation Without Soil Plate, Deduct For Installation In Rock, Add	110.19 -5.00 10.53	39.51
34 71 13 26-0175	EA	Type B End Treatment or Rub Back Anchor Post for Box Beam..... Note: For median barrier. For Installation Without Soil Plate, Deduct For Installation In Rock, Add	95.05 -5.00 10.53	39.51
34 71 13 26-0176	EA	Type B End Treatment or Rub Back Anchor Post (Rustic) Note: For box beam median barrier. For Installation Without Soil Plate, Deduct For Installation In Rock, Add	95.05 -5.00 10.53	39.51
34 71 13 26-0177	EA	Type I End Assembly Post for Box Beam Median Barrier to Concrete Note: For median barrier transition. For Installation Without Soil Plate, Deduct For Installation In Rock, Add	107.16 -5.00 10.53	39.51
34 71 13 26-0178	EA	Type I End Assembly Post (Rustic) for Box Beam Median Barrier..... Note: For Concrete median barrier transition. For Installation Without Soil Plate, Deduct For Installation In Rock, Add	110.19 -5.00 10.53	39.51
34 71 13 26-0179		Box Beam Median Barrier Accessories (34 71 13 26-0154)		
34 71 13 26-0180	EA	Box Beam Median Barrier End Cover Plate.....	66.11	18.67
34 71 13 26-0181	EA	Box Beam Median Barrier End Cover Plate (Rustic).....	69.14	18.67
34 71 13 26-0182		Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0154) Note: For existing guide rail.		
34 71 13 26-0183	LF	Remove and Store Box Beam Median Barrier and Posts	3.61	
34 71 13 26-0184	LF	Reset Box Beam Median Barrier.....	10.67	
34 71 13 26-0185		Universal Guide Rail Items (34 71 13 26)		
34 71 13 26-0186		Guide Rail Concrete Anchor Units For All Types Of Guide Rail (34 71 13 26-0185) Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.		
34 71 13 26-0187	CY	Guide Rail Concrete Anchor Unit..... For Each Additional Set Of Anchor Rods, Add	570.39 38.00	
34 71 13 26-0188	EA	Reset Existing Anchorage Unit for All Types of Guide Rail..... Note: Includes excavation and backfill.	405.37	
34 71 13 26-0189	EA	Removal Of Guide Rail Concrete Anchor Unit	434.27	
34 71 13 26-0190		Guide Rail Repair For All Types Of Existing Guide Rail (34 71 13 26-0185) Note: All tasks include associated hardware.		
34 71 13 26-0191	EA	Straighten And Reset Driven Post For Guide Rail	52.67	
34 71 13 26-0192	EA	Straighten And Reset Post Mounted On Concrete For Guide Rail..... Note: With base plate for guide rail. Includes new anchor bolts.	57.03	



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Transportation Construction And Equipment		34 70
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0193 Additional Wood and Steel Posts (34 71 13 26-0185)		
34 71 13 26-0194 LF 4" x 6" Wood Post..... For Installation In Rock, Add	31.97 3.52	13.20
34 71 13 26-0195 LF 6" x 8" Wood Post..... For Installation In Rock, Add	36.51 3.52	13.20
34 71 13 26-0196 LF 6" x 7/8" Steel Post Galvanized For Installation In Rock, Add	26.17 3.52	13.20
34 71 13 26-0197 EA Base Plate With Anchor Bolts For Mounting Post On Concrete.....	201.67	13.20
34 71 13 26-0198 Accessories For All Types of Guide Rail (34 71 13 26-0185)		
34 71 13 26-0199 EA Reflector, Guard Rail	21.13	
34 71 13 26-0200 Resilient Guard Fence And Light Shield (34 71 13 26)		
34 71 13 26-0201 LF Resilient Guard Fence And Light Shield, Up To 6' High	53.40	5.43
34 71 13 26-0202 Individual Concrete Posts (34 71 13 26)		
34 71 13 26-0203 EA 6'-5" Concrete Posts, Round.....	78.64	5.43
34 71 13 26-0204 EA 6'-5" Concrete Posts, Square.....	87.86	6.12
34 71 13 26-0205 EA 6'-5" Concrete Posts, Triangular	85.40	6.12
34 71 13 26-0206 Guide Rail Transitions (34 71 13 26)		
34 71 13 26-0207 Transition Box Beam Guide Rail To Corrugated Beam (34 71 13 26-0206)		
34 71 13 26-0208 EA Box Beam To Corrugated Beam Rail Bolted Section.....	417.75	
34 71 13 26-0209 EA Box Beam To Corrugated Beam Rail Bolted Plate	296.66	
Note: For making cable connections.		
34 71 13 26-0210 Transition Box Beam Median Barrier To Corrugated Beam Median (34 71 13 26-0206)		
34 71 13 26-0211 EA Box Beam Median Barrier To Corrugated Beam Bolted Section	423.80	
34 71 13 26-0212 EA Box Beam Median Barrier To Corrugated Beam Harness Plate	296.66	
Note: For making cable connections.		
34 71 13 26-0213 Transition Box Beam Guide Rail To Cable Guide Rail (34 71 13 26-0206)		
34 71 13 26-0214 EA Box Beam to Cable Guide Rail U-bolt And Plate	53.88	14.14
34 71 13 26-0215 Transition Box Beam Median Barrier To Concrete Median Barrier (34 71 13 26-0206)		
34 71 13 26-0216 EA Box Beam Median Barrier To Concrete Barrier End Connection.....	538.84	
34 71 13 26-0217 Transition Thrie Beam To Concrete Median Barrier (34 71 13 26-0206)		
34 71 13 26-0218 EA Thrie Beam Terminal Connector At Concrete Median Barrier.....	387.47	
34 71 13 26-0219 EA Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	463.16	
34 71 13 26-0220 Transition Railing (Monterey County) (34 71 13 26)		
Note: Complete with rail, posts, transition and bolts.		
34 71 13 26-0221 EA Transition Railing, Type WB-31 (Monterey County).....	2,750.63	1.77
34 71 16 Impact Attenuating Devices (34 71)		
34 71 16 00-0001 Guard Rail Energy Absorbing Terminals (34 71 16)		
Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
34 71 16 00-0002 24" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0003 EA 24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	24,101.00	2,672.48
34 71 16 00-0004 EA 24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	33,383.58	3,563.32
34 71 16 00-0005 EA 24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	45,450.04	4,676.85
34 71 16 00-0006 EA 24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	50,870.36	5,790.38
34 71 16 00-0007 30" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0008 EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	26,028.64	3,006.55
34 71 16 00-0009 EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	36,151.51	4,008.72
34 71 16 00-0010 EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	49,522.73	5,344.97
34 71 16 00-0011 EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	56,916.08	6,458.50
34 71 16 00-0012 36" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0013 EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	27,976.26	3,340.60

34 Transportation**34 70 Transportation Construction And Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 16 00-0014 EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	38,938.82	4,454.14
34 71 16 00-0015 EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	53,131.30	5,901.74
34 71 16 00-0016 EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	62,941.11	7,126.62
34 71 16 00-0017 69" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0018 EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	30,328.60	3,674.67
34 71 16 00-0019 EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	41,883.88	4,899.55
34 71 16 00-0020 EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	57,369.69	6,458.50
34 71 16 00-0021 EA 69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	67,663.51	7,794.74
34 71 16 00-0022 90" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0023 EA 90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	32,739.60	4,008.72
34 71 16 00-0024 EA 90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	44,897.92	5,344.97
34 71 16 00-0025 EA 90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	62,191.68	7,126.62
34 71 16 00-0026 EA 90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	72,507.60	8,462.87
34 71 19 Vehicle Delineators (34 71)		
34 71 19 16 Flexible Vehicle Delineators (34 71 19)		
34 71 19 16-0001 EA 2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	59.57	6.80
34 80 Bridges (34)		
34 82 Bridge Specialties (34 80)		
34 82 23 Bridge Railing (34 82)		
34 82 23 00-0001 Metal Bridge Railing (34 82 23)		
Note: Includes hardware for bridge rail mounting.		
34 82 23 00-0002 LF 2" x 2" x 1/8" Bridge Railing	32.51	2.96
34 82 23 00-0003 LF 3" x 3" x 5/16" Bridge Railing	56.80	4.61
34 82 23 00-0004 LF 5" x 3" x 1/4" Bridge Railing	72.43	6.76
34 82 23 00-0005 LF 6" x 6" x 3/16" Bridge Railing	95.55	8.52
34 82 23 00-0006 LF 5" Outside Diameter x 1/4" Bridge Railing	77.35	6.57
34 82 23 00-0007 Bridge Post (34 82 23)		
Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008 EA 6" x 9" x 5'-6" Bridge Post	134.68	37.60
34 82 23 00-0009 EA 6" x 9" x 7' Bridge Post	169.58	39.97
34 82 23 00-0010 EA Two Rail With Base Plate Bridge Post Assembly.....	397.09	70.52
34 82 23 00-0011 EA Two Rail With Curb Bridge Post Assembly	491.04	75.22
34 82 23 00-0012 EA Two Rail (Curbless) Bridge Post Assembly	446.09	75.22
34 82 23 00-0013 EA Two Rail With Optional Handrail Bridge Post Assembly	541.78	75.22
34 82 23 00-0014 EA Three Rail With Base Plate Bridge Post Assembly	411.00	75.22
34 82 23 00-0015 EA Three Rail With Curb Bridge Post Assembly	567.40	77.57
34 82 23 00-0016 EA Three Rail (Curbless) Bridge Post Assembly	555.55	77.57
34 82 23 00-0017 EA Three Rail With Optional Handrail Bridge Post Assembly.....	690.11	77.57
34 82 23 00-0018 EA Four Rail (Curbless) With Base Plate Bridge Post.....	458.14	79.91
34 82 23 00-0019 EA Four Rail With Base Plate (Sidewalk Type) Bridge Post.....	458.27	79.91
34 82 23 00-0020 EA Four Rail With Curb Bridge Post Assembly	698.77	79.91
34 82 23 00-0021 EA Four Rail (Curbless) Bridge Post Assembly	718.31	79.91
34 82 23 00-0022 EA Five Rail With Base Plate (Curbless) Bridge Post Assembly	510.92	84.61
34 82 23 00-0023 Bridge Railing Splices (34 82 23)		
Note: Includes hardware for splices.		
34 82 23 00-0024 EA 5" Outside Diameter Bridge Railing Splice.....	216.87	18.15
34 82 23 00-0025 EA 5" x 3" Bridge Railing Splice.....	127.31	15.89
34 82 23 00-0026 EA 3" x 3" Bridge Railing Splice.....	77.82	11.35
34 82 23 00-0027 EA 2" x 2" Bridge Railing Splice.....	38.84	8.17
34 82 23 00-0028 EA 5" x 5" x 3' Expansion Splice Tube.....	163.43	17.56
34 82 23 00-0029 EA 4" x 2" x 3' Expansion Splice Bar	174.41	17.56
34 82 23 00-0030 EA 5" x 5" x 2' Fixed Splice Tube	148.98	17.56
34 82 23 00-0031 EA 4" x 2" x 2' Fixed Splice Bar	152.95	17.56
34 82 23 00-0032 EA 6" x 6" x 3/16" Box x 9' Flare Tube	220.66	23.71
34 82 23 00-0033 Transition For Bridge Railing (34 82 23)		
Note: Includes hardware for transition for bridge railing.		
34 82 23 00-0034 EA Two Rail Box Beam To Bridge Transition With Splices.....	899.78	94.02
34 82 23 00-0035 EA Three Rail Box Beam To Bridge Transition With Splices.....	957.88	98.71
34 82 23 00-0036 EA Four Rail Box Beam To Bridge Transition With Splices	1,120.06	103.42
34 82 23 00-0037 EA 6" x 6" x 16'-1/2' Bottom Transition Tube.....	378.20	47.01
34 82 23 00-0038 EA 6" x 6" x 22' Bottom Transition Tube.....	467.87	51.71
34 82 23 00-0039 EA 8" x 6" x 16'-1/2' Bottom Transition Tube.....	442.86	47.01
34 82 23 00-0040 EA 6" x 6" x 16'-1/2' Top Transition Tube.....	387.92	47.01



Transportation		34	34
Bridges		34 80	
Bridge Specialties		34 82	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 82 23 00-0041	EA		6" x 6" x 21-1/2' Top Transition Tube.....	459.84	51.71
34 82 23 00-0042	EA		8" x 6" x 16-1/2' Top Transition Tube.....	454.92	47.01
34 82 23 00-0043	EA		6" x 6" x 16-1/2' Middle Transition Tube	364.87	47.01
34 82 23 00-0044	EA		8" x 6" x 16-1/2' Middle Transition Tube	448.89	47.01
34 82 23 00-0045			Anchor Plates And End Caps For Bridge Railing (34 82 23)		
34 82 23 00-0046	EA		14" x 14" Bridge Railing Anchor Plate.....	40.15	4.54
34 82 23 00-0047	EA		18" x 22" Deck Anchor Plate.....	243.28	22.69
34 82 23 00-0048	EA		2" x 2" Bridge Railing End Cap	32.89	2.27
34 82 23 00-0049	EA		3" x 3" Bridge Railing End Cap	20.41	2.27
34 82 23 00-0050	EA		5" O.D Bridge Railing End Cap.....	20.26	2.27
34 82 26			Bridge Slope Protection (34 82)		
34 82 26 00-0001			Bridge Slope Protection (34 82 26)		
			Note: Solid concrete masonry unit installed in sand bedding.		
34 82 26 00-0002	SF		8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection.....	11.05	4.50
34 82 26 00-0003	SF		8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection.....	12.97	4.96
34 82 26 00-0004	SF		8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection.....	14.24	5.26

END OF SECTION 34

34	34	Transportation
	34 80	Bridges
	34 82	Bridge Specialties



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Waterway and Marine Construction		35	35
Common Work Results for Waterway and Marine Construction		35 05	
Common Work Results for Dams		35 05 70	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction⁽³⁵⁾

35 05 70 Common Work Results for Dams^(35 05)

35 05 70 00-0001	Rubber Dam Repair ^(35 05 70)		
35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes).....	26.04
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage).....	51.17
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage).....	75.56
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material	83.90

END OF SECTION 35

35 Waterway and Marine Construction**35 05 Common Work Results for Waterway and Marine Construction****35 05 70 Common Work Results for Dams**

MINOR	DESCRIPTION
CSI UOM	

TOTAL DIRECT	DEMOLITION
UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001 Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19)

Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-2059 for bolts, 40 05 19 00-2074 for gaskets.

40 05 19 00-0002 Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0001)

40 05 19 00-0003 4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)

40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	448.88	167.96
	For Class 52 Rating, Deduct	-21.38	
	For Class 54 Rating, Add	14.58	
	For Class 55 Rating, Add	32.41	
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	474.13	170.89
	For Class 52 Rating, Deduct	-23.67	
	For Class 54 Rating, Add	16.14	
	For Class 55 Rating, Add	35.87	
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	499.38	173.83
	For Class 52 Rating, Deduct	-25.96	
	For Class 54 Rating, Add	17.70	
	For Class 55 Rating, Add	39.34	
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	524.63	176.77
	For Class 52 Rating, Deduct	-28.25	
	For Class 54 Rating, Add	19.26	
	For Class 55 Rating, Add	42.81	
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	549.88	179.70
	For Class 52 Rating, Deduct	-30.54	
	For Class 54 Rating, Add	20.82	
	For Class 55 Rating, Add	46.28	
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	575.13	182.64
	For Class 52 Rating, Deduct	-32.82	
	For Class 54 Rating, Add	22.38	
	For Class 55 Rating, Add	49.74	
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	600.38	185.58
	For Class 52 Rating, Deduct	-35.11	
	For Class 54 Rating, Add	23.94	
	For Class 55 Rating, Add	53.21	
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	625.63	188.51
	For Class 52 Rating, Deduct	-37.40	
	For Class 54 Rating, Add	25.50	
	For Class 55 Rating, Add	56.68	
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	650.87	191.45
	For Class 52 Rating, Deduct	-39.69	
	For Class 54 Rating, Add	27.06	
	For Class 55 Rating, Add	60.15	
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	676.12	194.39
	For Class 52 Rating, Deduct	-41.98	
	For Class 54 Rating, Add	28.62	
	For Class 55 Rating, Add	63.61	
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	701.38	197.32
	For Class 52 Rating, Deduct	-44.26	
	For Class 54 Rating, Add	30.18	
	For Class 55 Rating, Add	67.08	
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	726.63	200.26
	For Class 52 Rating, Deduct	-46.55	
	For Class 54 Rating, Add	31.74	
	For Class 55 Rating, Add	70.55	
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	751.87	203.20
	For Class 52 Rating, Deduct	-48.84	
	For Class 54 Rating, Add	33.30	
	For Class 55 Rating, Add	74.01	
40 05 19 00-0017	EA 4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	777.12	206.13
	For Class 52 Rating, Deduct	-51.13	
	For Class 54 Rating, Add	34.86	
	For Class 55 Rating, Add	77.48	
40 05 19 00-0018	EA 4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	802.37	209.07
	For Class 52 Rating, Deduct	-53.42	
	For Class 54 Rating, Add	36.42	
	For Class 55 Rating, Add	80.95	
40 05 19 00-0019	EA 4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	827.62	212.01
	For Class 52 Rating, Deduct	-55.70	
	For Class 54 Rating, Add	37.98	
	For Class 55 Rating, Add	84.42	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0020	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	852.86	214.94
		For Class 52 Rating, Deduct	-57.99	
		For Class 54 Rating, Add	39.54	
		For Class 55 Rating, Add	87.88	
40 05 19 00-0021	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	878.12	217.88
		For Class 52 Rating, Deduct	-60.28	
		For Class 54 Rating, Add	41.10	
		For Class 55 Rating, Add	91.35	
40 05 19 00-0022	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	903.37	220.82
		For Class 52 Rating, Deduct	-62.57	
		For Class 54 Rating, Add	42.66	
		For Class 55 Rating, Add	94.82	
40 05 19 00-0023	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	928.62	223.75
		For Class 52 Rating, Deduct	-64.86	
		For Class 54 Rating, Add	44.22	
		For Class 55 Rating, Add	98.29	
40 05 19 00-0024	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	953.86	226.69
		For Class 52 Rating, Deduct	-67.14	
		For Class 54 Rating, Add	45.78	
		For Class 55 Rating, Add	101.75	
40 05 19 00-0025	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	979.11	229.63
		For Class 52 Rating, Deduct	-69.43	
		For Class 54 Rating, Add	47.34	
		For Class 55 Rating, Add	105.22	
40 05 19 00-0026	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,004.36	232.56
		For Class 52 Rating, Deduct	-71.72	
		For Class 54 Rating, Add	48.90	
		For Class 55 Rating, Add	108.69	
40 05 19 00-0027	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,029.62	235.50
		For Class 52 Rating, Deduct	-74.01	
		For Class 54 Rating, Add	50.46	
		For Class 55 Rating, Add	112.16	
40 05 19 00-0028	EA	4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,054.86	238.43
		For Class 52 Rating, Deduct	-76.30	
		For Class 54 Rating, Add	52.02	
		For Class 55 Rating, Add	115.62	
40 05 19 00-0029	EA	4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,080.11	241.36
		For Class 52 Rating, Deduct	-78.58	
		For Class 54 Rating, Add	53.58	
		For Class 55 Rating, Add	119.09	
40 05 19 00-0030	EA	4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,105.36	244.30
		For Class 52 Rating, Deduct	-80.87	
		For Class 54 Rating, Add	55.14	
		For Class 55 Rating, Add	122.56	
40 05 19 00-0031	EA	4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,130.61	247.24
		For Class 52 Rating, Deduct	-83.16	
		For Class 54 Rating, Add	56.70	
		For Class 55 Rating, Add	126.03	
40 05 19 00-0032	EA	4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,155.85	250.17
		For Class 52 Rating, Deduct	-85.45	
		For Class 54 Rating, Add	58.26	
		For Class 55 Rating, Add	129.49	
40 05 19 00-0033	EA	4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,181.10	253.11
		For Class 52 Rating, Deduct	-87.74	
		For Class 54 Rating, Add	59.82	
		For Class 55 Rating, Add	132.96	
40 05 19 00-0034	EA	4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,206.36	256.05
		For Class 52 Rating, Deduct	-90.02	
		For Class 54 Rating, Add	61.38	
		For Class 55 Rating, Add	136.43	
40 05 19 00-0035	EA	4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,231.61	258.98
		For Class 52 Rating, Deduct	-92.31	
		For Class 54 Rating, Add	62.94	
		For Class 55 Rating, Add	139.89	
40 05 19 00-0036	EA	4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,256.85	261.92
		For Class 52 Rating, Deduct	-94.60	
		For Class 54 Rating, Add	64.50	
		For Class 55 Rating, Add	143.36	
40 05 19 00-0037	EA	4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,282.10	264.86
		For Class 52 Rating, Deduct	-96.89	
		For Class 54 Rating, Add	66.06	
		For Class 55 Rating, Add	146.83	
40 05 19 00-0038	EA	4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,307.35	267.80
		For Class 52 Rating, Deduct	-99.18	
		For Class 54 Rating, Add	67.62	
		For Class 55 Rating, Add	150.30	
40 05 19 00-0039	EA	4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,332.60	270.73
		For Class 52 Rating, Deduct	-101.46	
		For Class 54 Rating, Add	69.18	
		For Class 55 Rating, Add	153.76	
40 05 19 00-0040	EA	4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,357.85	273.67
		For Class 52 Rating, Deduct	-103.75	
		For Class 54 Rating, Add	70.74	
		For Class 55 Rating, Add	157.23	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0041	EA	4"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,383.10	276.61
			For Class 52 Rating, Deduct	-106.04	
			For Class 54 Rating, Add	72.30	
			For Class 55 Rating, Add	160.70	
40 05 19 00-0042	EA	4"	Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,408.35	279.54
			For Class 52 Rating, Deduct	-108.33	
			For Class 54 Rating, Add	73.86	
			For Class 55 Rating, Add	164.17	
40 05 19 00-0043			6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0044	EA	6"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	567.53	211.42
			For Class 52 Rating, Deduct	-27.19	
			For Class 54 Rating, Add	18.54	
			For Class 55 Rating, Add	41.21	
40 05 19 00-0045	EA	6"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	597.58	214.35
			For Class 52 Rating, Deduct	-30.01	
			For Class 54 Rating, Add	20.46	
			For Class 55 Rating, Add	45.48	
40 05 19 00-0046	EA	6"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	627.62	217.29
			For Class 52 Rating, Deduct	-32.82	
			For Class 54 Rating, Add	22.38	
			For Class 55 Rating, Add	49.74	
40 05 19 00-0047	EA	6"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	657.68	220.23
			For Class 52 Rating, Deduct	-35.64	
			For Class 54 Rating, Add	24.30	
			For Class 55 Rating, Add	54.01	
40 05 19 00-0048	EA	6"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	687.73	223.16
			For Class 52 Rating, Deduct	-38.46	
			For Class 54 Rating, Add	26.22	
			For Class 55 Rating, Add	58.28	
40 05 19 00-0049	EA	6"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	717.78	226.10
			For Class 52 Rating, Deduct	-41.27	
			For Class 54 Rating, Add	28.14	
			For Class 55 Rating, Add	62.55	
40 05 19 00-0050	EA	6"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	747.82	229.04
			For Class 52 Rating, Deduct	-44.09	
			For Class 54 Rating, Add	30.06	
			For Class 55 Rating, Add	66.81	
40 05 19 00-0051	EA	6"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	777.87	231.97
			For Class 52 Rating, Deduct	-46.90	
			For Class 54 Rating, Add	31.98	
			For Class 55 Rating, Add	71.08	
40 05 19 00-0052	EA	6"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	807.92	234.91
			For Class 52 Rating, Deduct	-49.72	
			For Class 54 Rating, Add	33.90	
			For Class 55 Rating, Add	75.35	
40 05 19 00-0053	EA	6"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	837.97	237.85
			For Class 52 Rating, Deduct	-52.54	
			For Class 54 Rating, Add	35.82	
			For Class 55 Rating, Add	79.62	
40 05 19 00-0054	EA	6"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	868.02	240.78
			For Class 52 Rating, Deduct	-55.35	
			For Class 54 Rating, Add	37.74	
			For Class 55 Rating, Add	83.88	
40 05 19 00-0055	EA	6"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	898.07	243.72
			For Class 52 Rating, Deduct	-58.17	
			For Class 54 Rating, Add	39.66	
			For Class 55 Rating, Add	88.15	
40 05 19 00-0056	EA	6"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	928.12	246.66
			For Class 52 Rating, Deduct	-60.98	
			For Class 54 Rating, Add	41.58	
			For Class 55 Rating, Add	92.42	
40 05 19 00-0057	EA	6"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	958.17	249.59
			For Class 52 Rating, Deduct	-63.80	
			For Class 54 Rating, Add	43.50	
			For Class 55 Rating, Add	96.69	
40 05 19 00-0058	EA	6"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	988.21	252.53
			For Class 52 Rating, Deduct	-66.62	
			For Class 54 Rating, Add	45.42	
			For Class 55 Rating, Add	100.95	
40 05 19 00-0059	EA	6"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,018.26	255.47
			For Class 52 Rating, Deduct	-69.43	
			For Class 54 Rating, Add	47.34	
			For Class 55 Rating, Add	105.22	
40 05 19 00-0060	EA	6"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,048.32	258.40
			For Class 52 Rating, Deduct	-72.25	
			For Class 54 Rating, Add	49.26	
			For Class 55 Rating, Add	109.49	
40 05 19 00-0061	EA	6"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,078.37	261.34
			For Class 52 Rating, Deduct	-75.06	
			For Class 54 Rating, Add	51.18	
			For Class 55 Rating, Add	113.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0062 EA 6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,108.41	264.28
For Class 52 Rating, Deduct	-77.88	
For Class 54 Rating, Add	53.10	
For Class 55 Rating, Add	118.02	
40 05 19 00-0063 EA 6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,138.46	267.20
For Class 52 Rating, Deduct	-80.70	
For Class 54 Rating, Add	55.02	
For Class 55 Rating, Add	122.29	
40 05 19 00-0064 EA 6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,168.51	270.14
For Class 52 Rating, Deduct	-83.51	
For Class 54 Rating, Add	56.94	
For Class 55 Rating, Add	126.56	
40 05 19 00-0065 EA 6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,198.56	273.08
For Class 52 Rating, Deduct	-86.33	
For Class 54 Rating, Add	58.86	
For Class 55 Rating, Add	130.83	
40 05 19 00-0066 EA 6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,228.60	276.01
For Class 52 Rating, Deduct	-89.14	
For Class 54 Rating, Add	60.78	
For Class 55 Rating, Add	135.09	
40 05 19 00-0067 EA 6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,258.66	278.95
For Class 52 Rating, Deduct	-91.96	
For Class 54 Rating, Add	62.70	
For Class 55 Rating, Add	139.36	
40 05 19 00-0068 EA 6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,288.71	281.89
For Class 52 Rating, Deduct	-94.78	
For Class 54 Rating, Add	64.62	
For Class 55 Rating, Add	143.63	
40 05 19 00-0069 EA 6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,318.76	284.82
For Class 52 Rating, Deduct	-97.59	
For Class 54 Rating, Add	66.54	
For Class 55 Rating, Add	147.90	
40 05 19 00-0070 EA 6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,348.80	287.76
For Class 52 Rating, Deduct	-100.41	
For Class 54 Rating, Add	68.46	
For Class 55 Rating, Add	152.16	
40 05 19 00-0071 EA 6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,378.85	290.70
For Class 52 Rating, Deduct	-103.22	
For Class 54 Rating, Add	70.38	
For Class 55 Rating, Add	156.43	
40 05 19 00-0072 EA 6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,408.90	293.63
For Class 52 Rating, Deduct	-106.04	
For Class 54 Rating, Add	72.30	
For Class 55 Rating, Add	160.70	
40 05 19 00-0073 EA 6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,438.96	296.57
For Class 52 Rating, Deduct	-108.86	
For Class 54 Rating, Add	74.22	
For Class 55 Rating, Add	164.97	
40 05 19 00-0074 EA 6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,469.00	299.51
For Class 52 Rating, Deduct	-111.67	
For Class 54 Rating, Add	76.14	
For Class 55 Rating, Add	169.23	
40 05 19 00-0075 EA 6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,499.05	302.44
For Class 52 Rating, Deduct	-114.49	
For Class 54 Rating, Add	78.06	
For Class 55 Rating, Add	173.50	
40 05 19 00-0076 EA 6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,529.10	305.38
For Class 52 Rating, Deduct	-117.30	
For Class 54 Rating, Add	79.98	
For Class 55 Rating, Add	177.77	
40 05 19 00-0077 EA 6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,559.15	308.32
For Class 52 Rating, Deduct	-120.12	
For Class 54 Rating, Add	81.90	
For Class 55 Rating, Add	182.04	
40 05 19 00-0078 EA 6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,589.19	311.26
For Class 52 Rating, Deduct	-122.94	
For Class 54 Rating, Add	83.82	
For Class 55 Rating, Add	186.30	
40 05 19 00-0079 EA 6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,619.24	314.19
For Class 52 Rating, Deduct	-125.75	
For Class 54 Rating, Add	85.74	
For Class 55 Rating, Add	190.57	
40 05 19 00-0080 EA 6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,649.30	317.13
For Class 52 Rating, Deduct	-128.57	
For Class 54 Rating, Add	87.66	
For Class 55 Rating, Add	194.84	
40 05 19 00-0081 EA 6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,679.35	320.07
For Class 52 Rating, Deduct	-131.38	
For Class 54 Rating, Add	89.58	
For Class 55 Rating, Add	199.11	
40 05 19 00-0082 EA 6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,709.39	323.00
For Class 52 Rating, Deduct	-134.20	
For Class 54 Rating, Add	91.50	
For Class 55 Rating, Add	203.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0083 8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0084 EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	773.31	270.14
For Class 52 Rating, Deduct	-40.04	
For Class 54 Rating, Add	27.30	
For Class 55 Rating, Add	60.68	
40 05 19 00-0085 EA 8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	812.96	273.08
For Class 52 Rating, Deduct	-43.91	
For Class 54 Rating, Add	29.94	
For Class 55 Rating, Add	66.55	
40 05 19 00-0086 EA 8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	852.60	276.01
For Class 52 Rating, Deduct	-47.78	
For Class 54 Rating, Add	32.58	
For Class 55 Rating, Add	72.41	
40 05 19 00-0087 EA 8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	892.26	278.95
For Class 52 Rating, Deduct	-51.66	
For Class 54 Rating, Add	35.22	
For Class 55 Rating, Add	78.28	
40 05 19 00-0088 EA 8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	931.91	281.89
For Class 52 Rating, Deduct	-55.53	
For Class 54 Rating, Add	37.86	
For Class 55 Rating, Add	84.15	
40 05 19 00-0089 EA 8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	971.56	284.82
For Class 52 Rating, Deduct	-59.40	
For Class 54 Rating, Add	40.50	
For Class 55 Rating, Add	90.02	
40 05 19 00-0090 EA 8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,011.20	287.76
For Class 52 Rating, Deduct	-63.27	
For Class 54 Rating, Add	43.14	
For Class 55 Rating, Add	95.89	
40 05 19 00-0091 EA 8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,050.85	290.70
For Class 52 Rating, Deduct	-67.14	
For Class 54 Rating, Add	45.78	
For Class 55 Rating, Add	101.75	
40 05 19 00-0092 EA 8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,090.50	293.63
For Class 52 Rating, Deduct	-71.02	
For Class 54 Rating, Add	48.42	
For Class 55 Rating, Add	107.62	
40 05 19 00-0093 EA 8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,130.16	296.57
For Class 52 Rating, Deduct	-74.89	
For Class 54 Rating, Add	51.06	
For Class 55 Rating, Add	113.49	
40 05 19 00-0094 EA 8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,169.80	299.51
For Class 52 Rating, Deduct	-78.76	
For Class 54 Rating, Add	53.70	
For Class 55 Rating, Add	119.36	
40 05 19 00-0095 EA 8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,209.45	302.44
For Class 52 Rating, Deduct	-82.63	
For Class 54 Rating, Add	56.34	
For Class 55 Rating, Add	125.23	
40 05 19 00-0096 EA 8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,249.10	305.38
For Class 52 Rating, Deduct	-86.50	
For Class 54 Rating, Add	58.98	
For Class 55 Rating, Add	131.09	
40 05 19 00-0097 EA 8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,288.75	308.32
For Class 52 Rating, Deduct	-90.38	
For Class 54 Rating, Add	61.62	
For Class 55 Rating, Add	136.96	
40 05 19 00-0098 EA 8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,328.39	311.26
For Class 52 Rating, Deduct	-94.25	
For Class 54 Rating, Add	64.26	
For Class 55 Rating, Add	142.83	
40 05 19 00-0099 EA 8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,368.04	314.19
For Class 52 Rating, Deduct	-98.12	
For Class 54 Rating, Add	66.90	
For Class 55 Rating, Add	148.70	
40 05 19 00-0100 EA 8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,407.70	317.13
For Class 52 Rating, Deduct	-101.99	
For Class 54 Rating, Add	69.54	
For Class 55 Rating, Add	154.56	
40 05 19 00-0101 EA 8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,447.35	320.07
For Class 52 Rating, Deduct	-105.86	
For Class 54 Rating, Add	72.18	
For Class 55 Rating, Add	160.43	
40 05 19 00-0102 EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,486.99	323.00
For Class 52 Rating, Deduct	-109.74	
For Class 54 Rating, Add	74.82	
For Class 55 Rating, Add	166.30	
40 05 19 00-0103 EA 8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,526.64	325.94
For Class 52 Rating, Deduct	-113.61	
For Class 54 Rating, Add	77.46	
For Class 55 Rating, Add	172.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0104	EA	8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,566.29	328.88
		For Class 52 Rating, Deduct	-117.48	
		For Class 54 Rating, Add	80.10	
		For Class 55 Rating, Add	178.04	
40 05 19 00-0105	EA	8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,605.94	331.81
		For Class 52 Rating, Deduct	-121.35	
		For Class 54 Rating, Add	82.74	
		For Class 55 Rating, Add	183.90	
40 05 19 00-0106	EA	8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,645.59	334.75
		For Class 52 Rating, Deduct	-125.22	
		For Class 54 Rating, Add	85.38	
		For Class 55 Rating, Add	189.77	
40 05 19 00-0107	EA	8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,685.24	337.69
		For Class 52 Rating, Deduct	-129.10	
		For Class 54 Rating, Add	88.02	
		For Class 55 Rating, Add	195.64	
40 05 19 00-0108	EA	8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,724.89	340.62
		For Class 52 Rating, Deduct	-132.97	
		For Class 54 Rating, Add	90.66	
		For Class 55 Rating, Add	201.51	
40 05 19 00-0109	EA	8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,764.54	343.56
		For Class 52 Rating, Deduct	-136.84	
		For Class 54 Rating, Add	93.30	
		For Class 55 Rating, Add	207.37	
40 05 19 00-0110	EA	8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,804.18	346.49
		For Class 52 Rating, Deduct	-140.71	
		For Class 54 Rating, Add	95.94	
		For Class 55 Rating, Add	213.24	
40 05 19 00-0111	EA	8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,843.83	349.42
		For Class 52 Rating, Deduct	-144.58	
		For Class 54 Rating, Add	98.58	
		For Class 55 Rating, Add	219.11	
40 05 19 00-0112	EA	8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,883.48	352.36
		For Class 52 Rating, Deduct	-148.46	
		For Class 54 Rating, Add	101.22	
		For Class 55 Rating, Add	224.98	
40 05 19 00-0113	EA	8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,923.14	355.30
		For Class 52 Rating, Deduct	-152.33	
		For Class 54 Rating, Add	103.86	
		For Class 55 Rating, Add	230.85	
40 05 19 00-0114	EA	8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,962.78	358.23
		For Class 52 Rating, Deduct	-156.20	
		For Class 54 Rating, Add	106.50	
		For Class 55 Rating, Add	236.71	
40 05 19 00-0115	EA	8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,002.43	361.17
		For Class 52 Rating, Deduct	-160.07	
		For Class 54 Rating, Add	109.14	
		For Class 55 Rating, Add	242.58	
40 05 19 00-0116	EA	8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,042.08	364.11
		For Class 52 Rating, Deduct	-163.94	
		For Class 54 Rating, Add	111.78	
		For Class 55 Rating, Add	248.45	
40 05 19 00-0117	EA	8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,081.73	367.04
		For Class 52 Rating, Deduct	-167.82	
		For Class 54 Rating, Add	114.42	
		For Class 55 Rating, Add	254.32	
40 05 19 00-0118	EA	8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,121.37	369.98
		For Class 52 Rating, Deduct	-171.69	
		For Class 54 Rating, Add	117.06	
		For Class 55 Rating, Add	260.19	
40 05 19 00-0119	EA	8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,161.03	372.92
		For Class 52 Rating, Deduct	-175.56	
		For Class 54 Rating, Add	119.70	
		For Class 55 Rating, Add	266.05	
40 05 19 00-0120	EA	8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,200.68	375.85
		For Class 52 Rating, Deduct	-179.43	
		For Class 54 Rating, Add	122.34	
		For Class 55 Rating, Add	271.92	
40 05 19 00-0121	EA	8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,240.33	378.79
		For Class 52 Rating, Deduct	-183.30	
		For Class 54 Rating, Add	124.98	
		For Class 55 Rating, Add	277.79	
40 05 19 00-0122	EA	8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,279.97	381.73
		For Class 52 Rating, Deduct	-187.18	
		For Class 54 Rating, Add	127.62	
		For Class 55 Rating, Add	283.66	
40 05 19 00-0123		10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0124	EA	10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	965.49	328.88
		For Class 52 Rating, Deduct	-51.39	
		For Class 54 Rating, Add	35.04	
		For Class 55 Rating, Add	77.88	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0125	EA	10"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,016.34	331.81
			For Class 52 Rating, Deduct	-56.50	
			For Class 54 Rating, Add	38.52	
			For Class 55 Rating, Add	85.62	
40 05 19 00-0126	EA	10"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,067.19	334.75
			For Class 52 Rating, Deduct	-61.60	
			For Class 54 Rating, Add	42.00	
			For Class 55 Rating, Add	93.35	
40 05 19 00-0127	EA	10"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,118.04	337.69
			For Class 52 Rating, Deduct	-66.70	
			For Class 54 Rating, Add	45.48	
			For Class 55 Rating, Add	101.09	
40 05 19 00-0128	EA	10"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,168.89	340.62
			For Class 52 Rating, Deduct	-71.81	
			For Class 54 Rating, Add	48.96	
			For Class 55 Rating, Add	108.82	
40 05 19 00-0129	EA	10"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,219.74	343.56
			For Class 52 Rating, Deduct	-76.91	
			For Class 54 Rating, Add	52.44	
			For Class 55 Rating, Add	116.56	
40 05 19 00-0130	EA	10"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,270.58	346.49
			For Class 52 Rating, Deduct	-82.02	
			For Class 54 Rating, Add	55.92	
			For Class 55 Rating, Add	124.29	
40 05 19 00-0131	EA	10"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,321.43	349.42
			For Class 52 Rating, Deduct	-87.12	
			For Class 54 Rating, Add	59.40	
			For Class 55 Rating, Add	132.03	
40 05 19 00-0132	EA	10"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,372.28	352.36
			For Class 52 Rating, Deduct	-92.22	
			For Class 54 Rating, Add	62.88	
			For Class 55 Rating, Add	139.76	
40 05 19 00-0133	EA	10"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,423.14	355.30
			For Class 52 Rating, Deduct	-97.33	
			For Class 54 Rating, Add	66.36	
			For Class 55 Rating, Add	147.50	
40 05 19 00-0134	EA	10"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,473.98	358.23
			For Class 52 Rating, Deduct	-102.43	
			For Class 54 Rating, Add	69.84	
			For Class 55 Rating, Add	155.23	
40 05 19 00-0135	EA	10"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,524.83	361.17
			For Class 52 Rating, Deduct	-107.54	
			For Class 54 Rating, Add	73.32	
			For Class 55 Rating, Add	162.97	
40 05 19 00-0136	EA	10"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,575.68	364.11
			For Class 52 Rating, Deduct	-112.64	
			For Class 54 Rating, Add	76.80	
			For Class 55 Rating, Add	170.70	
40 05 19 00-0137	EA	10"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,626.53	367.04
			For Class 52 Rating, Deduct	-117.74	
			For Class 54 Rating, Add	80.28	
			For Class 55 Rating, Add	178.44	
40 05 19 00-0138	EA	10"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,677.37	369.98
			For Class 52 Rating, Deduct	-122.85	
			For Class 54 Rating, Add	83.76	
			For Class 55 Rating, Add	186.17	
40 05 19 00-0139	EA	10"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,728.23	372.92
			For Class 52 Rating, Deduct	-127.95	
			For Class 54 Rating, Add	87.24	
			For Class 55 Rating, Add	193.91	
40 05 19 00-0140	EA	10"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,779.08	375.85
			For Class 52 Rating, Deduct	-133.06	
			For Class 54 Rating, Add	90.72	
			For Class 55 Rating, Add	201.64	
40 05 19 00-0141	EA	10"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,829.93	378.79
			For Class 52 Rating, Deduct	-138.16	
			For Class 54 Rating, Add	94.20	
			For Class 55 Rating, Add	209.38	
40 05 19 00-0142	EA	10"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,880.77	381.73
			For Class 52 Rating, Deduct	-143.26	
			For Class 54 Rating, Add	97.68	
			For Class 55 Rating, Add	217.11	
40 05 19 00-0143	EA	10"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,931.62	384.66
			For Class 52 Rating, Deduct	-148.37	
			For Class 54 Rating, Add	101.16	
			For Class 55 Rating, Add	224.84	
40 05 19 00-0144	EA	10"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,982.47	387.60
			For Class 52 Rating, Deduct	-153.47	
			For Class 54 Rating, Add	104.64	
			For Class 55 Rating, Add	232.58	
40 05 19 00-0145	EA	10"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,033.32	390.54
			For Class 52 Rating, Deduct	-158.58	
			For Class 54 Rating, Add	108.12	
			For Class 55 Rating, Add	240.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0146	EA	10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,084.17	393.47
		For Class 52 Rating, Deduct	-163.68	
		For Class 54 Rating, Add	111.60	
		For Class 55 Rating, Add	248.05	
40 05 19 00-0147	EA	10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,135.02	396.41
		For Class 52 Rating, Deduct	-168.78	
		For Class 54 Rating, Add	115.08	
		For Class 55 Rating, Add	255.78	
40 05 19 00-0148	EA	10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,185.87	399.35
		For Class 52 Rating, Deduct	-173.89	
		For Class 54 Rating, Add	118.56	
		For Class 55 Rating, Add	263.52	
40 05 19 00-0149	EA	10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,236.72	402.28
		For Class 52 Rating, Deduct	-178.99	
		For Class 54 Rating, Add	122.04	
		For Class 55 Rating, Add	271.25	
40 05 19 00-0150	EA	10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,287.56	405.22
		For Class 52 Rating, Deduct	-184.10	
		For Class 54 Rating, Add	125.52	
		For Class 55 Rating, Add	278.99	
40 05 19 00-0151	EA	10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,338.41	408.16
		For Class 52 Rating, Deduct	-189.20	
		For Class 54 Rating, Add	129.00	
		For Class 55 Rating, Add	286.72	
40 05 19 00-0152	EA	10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,389.27	411.09
		For Class 52 Rating, Deduct	-194.30	
		For Class 54 Rating, Add	132.48	
		For Class 55 Rating, Add	294.46	
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,440.12	414.03
		For Class 52 Rating, Deduct	-199.41	
		For Class 54 Rating, Add	135.96	
		For Class 55 Rating, Add	302.19	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,490.96	416.97
		For Class 52 Rating, Deduct	-204.51	
		For Class 54 Rating, Add	139.44	
		For Class 55 Rating, Add	309.93	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,541.01	419.89
		For Class 52 Rating, Deduct	-209.53	
		For Class 54 Rating, Add	142.86	
		For Class 55 Rating, Add	317.53	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,592.66	422.83
		For Class 52 Rating, Deduct	-214.72	
		For Class 54 Rating, Add	146.40	
		For Class 55 Rating, Add	325.40	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,643.51	425.77
		For Class 52 Rating, Deduct	-219.82	
		For Class 54 Rating, Add	149.88	
		For Class 55 Rating, Add	333.13	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,694.35	428.70
		For Class 52 Rating, Deduct	-224.93	
		For Class 54 Rating, Add	153.36	
		For Class 55 Rating, Add	340.87	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,745.21	431.64
		For Class 52 Rating, Deduct	-230.03	
		For Class 54 Rating, Add	156.84	
		For Class 55 Rating, Add	348.60	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,796.06	434.58
		For Class 52 Rating, Deduct	-235.14	
		For Class 54 Rating, Add	160.32	
		For Class 55 Rating, Add	356.34	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,846.91	437.52
		For Class 52 Rating, Deduct	-240.24	
		For Class 54 Rating, Add	163.80	
		For Class 55 Rating, Add	364.07	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,897.75	440.45
		For Class 52 Rating, Deduct	-245.34	
		For Class 54 Rating, Add	167.28	
		For Class 55 Rating, Add	371.81	
40 05 19 00-0163		12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,248.47	411.09
		For Class 52 Rating, Deduct	-68.82	
		For Class 54 Rating, Add	46.92	
		For Class 55 Rating, Add	104.29	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,311.32	414.03
		For Class 52 Rating, Deduct	-75.24	
		For Class 54 Rating, Add	51.30	
		For Class 55 Rating, Add	114.02	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,374.16	416.97
		For Class 52 Rating, Deduct	-81.66	
		For Class 54 Rating, Add	55.68	
		For Class 55 Rating, Add	123.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0167	EA	12"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,437.01	419.89
			For Class 52 Rating, Deduct	-88.09	
			For Class 54 Rating, Add	60.06	
			For Class 55 Rating, Add	133.49	
40 05 19 00-0168	EA	12"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,499.86	422.83
			For Class 52 Rating, Deduct	-94.51	
			For Class 54 Rating, Add	64.44	
			For Class 55 Rating, Add	143.23	
40 05 19 00-0169	EA	12"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,562.71	425.77
			For Class 52 Rating, Deduct	-100.94	
			For Class 54 Rating, Add	68.82	
			For Class 55 Rating, Add	152.96	
40 05 19 00-0170	EA	12"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,625.55	428.70
			For Class 52 Rating, Deduct	-107.36	
			For Class 54 Rating, Add	73.20	
			For Class 55 Rating, Add	162.70	
40 05 19 00-0171	EA	12"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,688.41	431.64
			For Class 52 Rating, Deduct	-113.78	
			For Class 54 Rating, Add	77.58	
			For Class 55 Rating, Add	172.43	
40 05 19 00-0172	EA	12"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,751.26	434.58
			For Class 52 Rating, Deduct	-120.21	
			For Class 54 Rating, Add	81.96	
			For Class 55 Rating, Add	182.17	
40 05 19 00-0173	EA	12"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,814.11	437.52
			For Class 52 Rating, Deduct	-126.63	
			For Class 54 Rating, Add	86.34	
			For Class 55 Rating, Add	191.91	
40 05 19 00-0174	EA	12"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,876.95	440.45
			For Class 52 Rating, Deduct	-133.06	
			For Class 54 Rating, Add	90.72	
			For Class 55 Rating, Add	201.64	
40 05 19 00-0175	EA	12"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,939.80	443.39
			For Class 52 Rating, Deduct	-139.48	
			For Class 54 Rating, Add	95.10	
			For Class 55 Rating, Add	211.38	
40 05 19 00-0176	EA	12"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,002.65	446.33
			For Class 52 Rating, Deduct	-145.90	
			For Class 54 Rating, Add	99.48	
			For Class 55 Rating, Add	221.11	
40 05 19 00-0177	EA	12"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,065.51	449.26
			For Class 52 Rating, Deduct	-152.33	
			For Class 54 Rating, Add	103.86	
			For Class 55 Rating, Add	230.85	
40 05 19 00-0178	EA	12"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,128.35	452.20
			For Class 52 Rating, Deduct	-158.75	
			For Class 54 Rating, Add	108.24	
			For Class 55 Rating, Add	240.58	
40 05 19 00-0179	EA	12"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,191.20	455.14
			For Class 52 Rating, Deduct	-165.18	
			For Class 54 Rating, Add	112.62	
			For Class 55 Rating, Add	250.32	
40 05 19 00-0180	EA	12"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,254.05	458.07
			For Class 52 Rating, Deduct	-171.60	
			For Class 54 Rating, Add	117.00	
			For Class 55 Rating, Add	260.05	
40 05 19 00-0181	EA	12"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,316.90	461.01
			For Class 52 Rating, Deduct	-178.02	
			For Class 54 Rating, Add	121.38	
			For Class 55 Rating, Add	269.79	
40 05 19 00-0182	EA	12"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,379.74	463.95
			For Class 52 Rating, Deduct	-184.45	
			For Class 54 Rating, Add	125.76	
			For Class 55 Rating, Add	279.52	
40 05 19 00-0183	EA	12"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,442.59	466.88
			For Class 52 Rating, Deduct	-190.87	
			For Class 54 Rating, Add	130.14	
			For Class 55 Rating, Add	289.26	
40 05 19 00-0184	EA	12"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,505.45	469.82
			For Class 52 Rating, Deduct	-197.30	
			For Class 54 Rating, Add	134.52	
			For Class 55 Rating, Add	298.99	
40 05 19 00-0185	EA	12"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,568.30	472.76
			For Class 52 Rating, Deduct	-203.72	
			For Class 54 Rating, Add	138.90	
			For Class 55 Rating, Add	308.73	
40 05 19 00-0186	EA	12"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,631.14	475.69
			For Class 52 Rating, Deduct	-210.14	
			For Class 54 Rating, Add	143.28	
			For Class 55 Rating, Add	318.46	
40 05 19 00-0187	EA	12"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,693.99	478.63
			For Class 52 Rating, Deduct	-216.57	
			For Class 54 Rating, Add	147.66	
			For Class 55 Rating, Add	328.20	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0188 EA 12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,756.84	481.57
For Class 52 Rating, Deduct	-222.99	
For Class 54 Rating, Add	152.04	
For Class 55 Rating, Add	337.93	
40 05 19 00-0189 EA 12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,819.69	484.50
For Class 52 Rating, Deduct	-229.42	
For Class 54 Rating, Add	156.42	
For Class 55 Rating, Add	347.67	
40 05 19 00-0190 EA 12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,882.54	487.44
For Class 52 Rating, Deduct	-235.84	
For Class 54 Rating, Add	160.80	
For Class 55 Rating, Add	357.40	
40 05 19 00-0191 EA 12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,945.39	490.38
For Class 52 Rating, Deduct	-242.26	
For Class 54 Rating, Add	165.18	
For Class 55 Rating, Add	367.14	
40 05 19 00-0192 EA 12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,008.24	493.31
For Class 52 Rating, Deduct	-248.69	
For Class 54 Rating, Add	169.56	
For Class 55 Rating, Add	376.88	
40 05 19 00-0193 EA 12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,071.09	496.25
For Class 52 Rating, Deduct	-255.11	
For Class 54 Rating, Add	173.94	
For Class 55 Rating, Add	386.61	
40 05 19 00-0194 EA 12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,133.93	499.18
For Class 52 Rating, Deduct	-261.54	
For Class 54 Rating, Add	178.32	
For Class 55 Rating, Add	396.35	
40 05 19 00-0195 EA 12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,196.78	502.11
For Class 52 Rating, Deduct	-267.96	
For Class 54 Rating, Add	182.70	
For Class 55 Rating, Add	406.08	
40 05 19 00-0196 EA 12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,259.63	505.05
For Class 52 Rating, Deduct	-274.38	
For Class 54 Rating, Add	187.08	
For Class 55 Rating, Add	415.82	
40 05 19 00-0197 EA 12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,322.49	507.99
For Class 52 Rating, Deduct	-280.81	
For Class 54 Rating, Add	191.46	
For Class 55 Rating, Add	425.55	
40 05 19 00-0198 EA 12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,385.33	510.92
For Class 52 Rating, Deduct	-287.23	
For Class 54 Rating, Add	195.84	
For Class 55 Rating, Add	435.29	
40 05 19 00-0199 EA 12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,448.18	513.86
For Class 52 Rating, Deduct	-293.66	
For Class 54 Rating, Add	200.22	
For Class 55 Rating, Add	445.02	
40 05 19 00-0200 EA 12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,511.03	516.80
For Class 52 Rating, Deduct	-300.08	
For Class 54 Rating, Add	204.60	
For Class 55 Rating, Add	454.76	
40 05 19 00-0201 EA 12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,573.88	519.73
For Class 52 Rating, Deduct	-306.50	
For Class 54 Rating, Add	208.98	
For Class 55 Rating, Add	464.49	
40 05 19 00-0202 EA 12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,636.72	522.67
For Class 52 Rating, Deduct	-312.93	
For Class 54 Rating, Add	213.36	
For Class 55 Rating, Add	474.23	
40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0204 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,623.44	493.31
For Class 52 Rating, Deduct	-96.36	
For Class 54 Rating, Add	65.70	
For Class 55 Rating, Add	146.03	
40 05 19 00-0205 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,699.09	496.25
For Class 52 Rating, Deduct	-104.19	
For Class 54 Rating, Add	71.04	
For Class 55 Rating, Add	157.90	
40 05 19 00-0206 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,774.73	499.18
For Class 52 Rating, Deduct	-112.02	
For Class 54 Rating, Add	76.38	
For Class 55 Rating, Add	169.77	
40 05 19 00-0207 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,850.38	502.11
For Class 52 Rating, Deduct	-119.86	
For Class 54 Rating, Add	81.72	
For Class 55 Rating, Add	181.64	
40 05 19 00-0208 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,926.03	505.05
For Class 52 Rating, Deduct	-127.69	
For Class 54 Rating, Add	87.06	
For Class 55 Rating, Add	193.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0209	EA	14"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,001.69	507.99
			For Class 52 Rating, Deduct	-135.52	
			For Class 54 Rating, Add	92.40	
			For Class 55 Rating, Add	205.37	
40 05 19 00-0210	EA	14"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,077.33	510.92
			For Class 52 Rating, Deduct	-143.35	
			For Class 54 Rating, Add	97.74	
			For Class 55 Rating, Add	217.24	
40 05 19 00-0211	EA	14"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,152.98	513.86
			For Class 52 Rating, Deduct	-151.18	
			For Class 54 Rating, Add	103.08	
			For Class 55 Rating, Add	229.11	
40 05 19 00-0212	EA	14"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,228.63	516.80
			For Class 52 Rating, Deduct	-159.02	
			For Class 54 Rating, Add	108.42	
			For Class 55 Rating, Add	240.98	
40 05 19 00-0213	EA	14"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,304.28	519.73
			For Class 52 Rating, Deduct	-166.85	
			For Class 54 Rating, Add	113.76	
			For Class 55 Rating, Add	252.85	
40 05 19 00-0214	EA	14"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,379.92	522.67
			For Class 52 Rating, Deduct	-174.68	
			For Class 54 Rating, Add	119.10	
			For Class 55 Rating, Add	264.72	
40 05 19 00-0215	EA	14"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,455.58	525.61
			For Class 52 Rating, Deduct	-182.51	
			For Class 54 Rating, Add	124.44	
			For Class 55 Rating, Add	276.59	
40 05 19 00-0216	EA	14"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,531.23	528.54
			For Class 52 Rating, Deduct	-190.34	
			For Class 54 Rating, Add	129.78	
			For Class 55 Rating, Add	288.46	
40 05 19 00-0217	EA	14"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,606.88	531.48
			For Class 52 Rating, Deduct	-198.18	
			For Class 54 Rating, Add	135.12	
			For Class 55 Rating, Add	300.33	
40 05 19 00-0218	EA	14"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,682.52	534.42
			For Class 52 Rating, Deduct	-206.01	
			For Class 54 Rating, Add	140.46	
			For Class 55 Rating, Add	312.20	
40 05 19 00-0219	EA	14"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,758.17	537.35
			For Class 52 Rating, Deduct	-213.84	
			For Class 54 Rating, Add	145.80	
			For Class 55 Rating, Add	324.06	
40 05 19 00-0220	EA	14"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,833.82	540.29
			For Class 52 Rating, Deduct	-221.67	
			For Class 54 Rating, Add	151.14	
			For Class 55 Rating, Add	335.93	
40 05 19 00-0221	EA	14"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,909.47	543.23
			For Class 52 Rating, Deduct	-229.50	
			For Class 54 Rating, Add	156.48	
			For Class 55 Rating, Add	347.80	
40 05 19 00-0222	EA	14"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,985.12	546.16
			For Class 52 Rating, Deduct	-237.34	
			For Class 54 Rating, Add	161.82	
			For Class 55 Rating, Add	359.67	
40 05 19 00-0223	EA	14"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,060.77	549.10
			For Class 52 Rating, Deduct	-245.17	
			For Class 54 Rating, Add	167.16	
			For Class 55 Rating, Add	371.54	
40 05 19 00-0224	EA	14"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,136.42	552.04
			For Class 52 Rating, Deduct	-253.00	
			For Class 54 Rating, Add	172.50	
			For Class 55 Rating, Add	383.41	
40 05 19 00-0225	EA	14"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,212.07	554.97
			For Class 52 Rating, Deduct	-260.83	
			For Class 54 Rating, Add	177.84	
			For Class 55 Rating, Add	395.28	
40 05 19 00-0226	EA	14"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,287.71	557.91
			For Class 52 Rating, Deduct	-268.66	
			For Class 54 Rating, Add	183.18	
			For Class 55 Rating, Add	407.15	
40 05 19 00-0227	EA	14"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,363.36	560.85
			For Class 52 Rating, Deduct	-276.50	
			For Class 54 Rating, Add	188.52	
			For Class 55 Rating, Add	419.02	
40 05 19 00-0228	EA	14"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,439.02	563.79
			For Class 52 Rating, Deduct	-284.33	
			For Class 54 Rating, Add	193.86	
			For Class 55 Rating, Add	430.89	
40 05 19 00-0229	EA	14"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,514.67	566.72
			For Class 52 Rating, Deduct	-292.16	
			For Class 54 Rating, Add	199.20	
			For Class 55 Rating, Add	442.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0230	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,590.31	569.66
		For Class 52 Rating, Deduct	-299.99	
		For Class 54 Rating, Add	204.54	
		For Class 55 Rating, Add	454.62	
40 05 19 00-0231	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,665.96	572.59
		For Class 52 Rating, Deduct	-307.82	
		For Class 54 Rating, Add	209.88	
		For Class 55 Rating, Add	466.49	
40 05 19 00-0232	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,741.61	575.52
		For Class 52 Rating, Deduct	-315.66	
		For Class 54 Rating, Add	215.22	
		For Class 55 Rating, Add	478.36	
40 05 19 00-0233	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,817.26	578.46
		For Class 52 Rating, Deduct	-323.49	
		For Class 54 Rating, Add	220.56	
		For Class 55 Rating, Add	490.23	
40 05 19 00-0234	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,892.90	581.40
		For Class 52 Rating, Deduct	-331.32	
		For Class 54 Rating, Add	225.90	
		For Class 55 Rating, Add	502.10	
40 05 19 00-0235	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,968.56	584.33
		For Class 52 Rating, Deduct	-339.15	
		For Class 54 Rating, Add	231.24	
		For Class 55 Rating, Add	513.97	
40 05 19 00-0236	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,044.21	587.27
		For Class 52 Rating, Deduct	-346.98	
		For Class 54 Rating, Add	236.58	
		For Class 55 Rating, Add	525.84	
40 05 19 00-0237	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,119.86	590.21
		For Class 52 Rating, Deduct	-354.82	
		For Class 54 Rating, Add	241.92	
		For Class 55 Rating, Add	537.71	
40 05 19 00-0238	EA	14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,195.50	593.14
		For Class 52 Rating, Deduct	-362.65	
		For Class 54 Rating, Add	247.26	
		For Class 55 Rating, Add	549.58	
40 05 19 00-0239	EA	14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,271.15	596.08
		For Class 52 Rating, Deduct	-370.48	
		For Class 54 Rating, Add	252.60	
		For Class 55 Rating, Add	561.45	
40 05 19 00-0240	EA	14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,346.80	599.02
		For Class 52 Rating, Deduct	-378.31	
		For Class 54 Rating, Add	257.94	
		For Class 55 Rating, Add	573.31	
40 05 19 00-0241	EA	14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,422.46	601.95
		For Class 52 Rating, Deduct	-386.14	
		For Class 54 Rating, Add	263.28	
		For Class 55 Rating, Add	585.18	
40 05 19 00-0242		16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0243	EA	16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,892.62	563.79
		For Class 52 Rating, Deduct	-114.22	
		For Class 54 Rating, Add	77.88	
		For Class 55 Rating, Add	173.10	
40 05 19 00-0244	EA	16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,980.27	566.72
		For Class 52 Rating, Deduct	-123.38	
		For Class 54 Rating, Add	84.12	
		For Class 55 Rating, Add	186.97	
40 05 19 00-0245	EA	16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,067.91	569.66
		For Class 52 Rating, Deduct	-132.53	
		For Class 54 Rating, Add	90.36	
		For Class 55 Rating, Add	200.84	
40 05 19 00-0246	EA	16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,155.56	572.59
		For Class 52 Rating, Deduct	-141.68	
		For Class 54 Rating, Add	96.60	
		For Class 55 Rating, Add	214.71	
40 05 19 00-0247	EA	16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,243.21	575.52
		For Class 52 Rating, Deduct	-150.83	
		For Class 54 Rating, Add	102.84	
		For Class 55 Rating, Add	228.58	
40 05 19 00-0248	EA	16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,330.86	578.46
		For Class 52 Rating, Deduct	-159.98	
		For Class 54 Rating, Add	109.08	
		For Class 55 Rating, Add	242.45	
40 05 19 00-0249	EA	16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,418.50	581.40
		For Class 52 Rating, Deduct	-169.14	
		For Class 54 Rating, Add	115.32	
		For Class 55 Rating, Add	256.32	
40 05 19 00-0250	EA	16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,506.16	584.33
		For Class 52 Rating, Deduct	-178.29	
		For Class 54 Rating, Add	121.56	
		For Class 55 Rating, Add	270.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0251	EA	16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,593.81	587.27	
		For Class 52 Rating, Deduct	-187.44		
		For Class 54 Rating, Add	127.80		
		For Class 55 Rating, Add	284.06		
40 05 19 00-0252	EA	16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,681.46	590.21	
		For Class 52 Rating, Deduct	-196.59		
		For Class 54 Rating, Add	134.04		
		For Class 55 Rating, Add	297.93		
40 05 19 00-0253	EA	16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,769.10	593.14	
		For Class 52 Rating, Deduct	-205.74		
		For Class 54 Rating, Add	140.28		
		For Class 55 Rating, Add	311.80		
40 05 19 00-0254	EA	16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,856.75	596.08	
		For Class 52 Rating, Deduct	-214.90		
		For Class 54 Rating, Add	146.52		
		For Class 55 Rating, Add	325.67		
40 05 19 00-0255	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,944.40	599.02	
		For Class 52 Rating, Deduct	-224.05		
		For Class 54 Rating, Add	152.76		
		For Class 55 Rating, Add	339.53		
40 05 19 00-0256	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,032.06	601.95	
		For Class 52 Rating, Deduct	-233.20		
		For Class 54 Rating, Add	159.00		
		For Class 55 Rating, Add	353.40		
40 05 19 00-0257	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,119.70	604.89	
		For Class 52 Rating, Deduct	-242.35		
		For Class 54 Rating, Add	165.24		
		For Class 55 Rating, Add	367.27		
40 05 19 00-0258	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,207.35	607.83	
		For Class 52 Rating, Deduct	-251.50		
		For Class 54 Rating, Add	171.48		
		For Class 55 Rating, Add	381.14		
40 05 19 00-0259	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,295.00	610.76	
		For Class 52 Rating, Deduct	-260.66		
		For Class 54 Rating, Add	177.72		
		For Class 55 Rating, Add	395.01		
40 05 19 00-0260	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,382.65	613.70	
		For Class 52 Rating, Deduct	-269.81		
		For Class 54 Rating, Add	183.96		
		For Class 55 Rating, Add	408.88		
40 05 19 00-0261	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,470.29	616.64	
		For Class 52 Rating, Deduct	-278.96		
		For Class 54 Rating, Add	190.20		
		For Class 55 Rating, Add	422.75		
40 05 19 00-0262	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,557.94	619.57	
		For Class 52 Rating, Deduct	-288.11		
		For Class 54 Rating, Add	196.44		
		For Class 55 Rating, Add	436.62		
40 05 19 00-0263	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,645.60	622.51	
		For Class 52 Rating, Deduct	-297.26		
		For Class 54 Rating, Add	202.68		
		For Class 55 Rating, Add	450.49		
40 05 19 00-0264	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,733.25	625.45	
		For Class 52 Rating, Deduct	-306.42		
		For Class 54 Rating, Add	208.92		
		For Class 55 Rating, Add	464.36		
40 05 19 00-0265	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,820.89	628.38	
		For Class 52 Rating, Deduct	-315.57		
		For Class 54 Rating, Add	215.16		
		For Class 55 Rating, Add	478.23		
40 05 19 00-0266	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,908.54	631.32	
		For Class 52 Rating, Deduct	-324.72		
		For Class 54 Rating, Add	221.40		
		For Class 55 Rating, Add	492.10		
40 05 19 00-0267	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,996.19	634.26	
		For Class 52 Rating, Deduct	-333.87		
		For Class 54 Rating, Add	227.64		
		For Class 55 Rating, Add	505.97		
40 05 19 00-0268	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,083.84	637.19	
		For Class 52 Rating, Deduct	-343.02		
		For Class 54 Rating, Add	233.88		
		For Class 55 Rating, Add	519.84		
40 05 19 00-0269	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,171.49	640.13	
		For Class 52 Rating, Deduct	-352.18		
		For Class 54 Rating, Add	240.12		
		For Class 55 Rating, Add	533.71		
40 05 19 00-0270	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,259.14	643.07	
		For Class 52 Rating, Deduct	-361.33		
		For Class 54 Rating, Add	246.36		
		For Class 55 Rating, Add	547.58		
40 05 19 00-0271	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,346.79	646.00	
		For Class 52 Rating, Deduct	-370.48		
		For Class 54 Rating, Add	252.60		
		For Class 55 Rating, Add	561.45		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272	EA	16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,434.44	648.94
		For Class 52 Rating, Deduct	-379.63	
		For Class 54 Rating, Add	258.84	
		For Class 55 Rating, Add	575.32	
40 05 19 00-0273	EA	16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,522.08	651.87
		For Class 52 Rating, Deduct	-388.78	
		For Class 54 Rating, Add	265.08	
		For Class 55 Rating, Add	589.18	
40 05 19 00-0274	EA	16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,609.73	654.80
		For Class 52 Rating, Deduct	-397.94	
		For Class 54 Rating, Add	271.32	
		For Class 55 Rating, Add	603.05	
40 05 19 00-0275	EA	16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,697.38	657.74
		For Class 52 Rating, Deduct	-407.09	
		For Class 54 Rating, Add	277.56	
		For Class 55 Rating, Add	616.92	
40 05 19 00-0276	EA	16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,785.04	660.68
		For Class 52 Rating, Deduct	-416.24	
		For Class 54 Rating, Add	283.80	
		For Class 55 Rating, Add	630.79	
40 05 19 00-0277	EA	16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,872.68	663.61
		For Class 52 Rating, Deduct	-425.39	
		For Class 54 Rating, Add	290.04	
		For Class 55 Rating, Add	644.66	
40 05 19 00-0278	EA	16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,960.33	666.55
		For Class 52 Rating, Deduct	-434.54	
		For Class 54 Rating, Add	296.28	
		For Class 55 Rating, Add	658.53	
40 05 19 00-0279	EA	16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,047.98	669.49
		For Class 52 Rating, Deduct	-443.70	
		For Class 54 Rating, Add	302.52	
		For Class 55 Rating, Add	672.40	
40 05 19 00-0280	EA	16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,135.63	672.42
		For Class 52 Rating, Deduct	-452.85	
		For Class 54 Rating, Add	308.76	
		For Class 55 Rating, Add	686.27	
40 05 19 00-0281		18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0282	EA	18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,186.77	635.43
		For Class 52 Rating, Deduct	-134.64	
		For Class 54 Rating, Add	91.80	
		For Class 55 Rating, Add	204.04	
40 05 19 00-0283	EA	18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,287.22	638.37
		For Class 52 Rating, Deduct	-145.20	
		For Class 54 Rating, Add	99.00	
		For Class 55 Rating, Add	220.04	
40 05 19 00-0284	EA	18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,387.67	641.30
		For Class 52 Rating, Deduct	-155.76	
		For Class 54 Rating, Add	106.20	
		For Class 55 Rating, Add	236.05	
40 05 19 00-0285	EA	18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,488.12	644.24
		For Class 52 Rating, Deduct	-166.32	
		For Class 54 Rating, Add	113.40	
		For Class 55 Rating, Add	252.05	
40 05 19 00-0286	EA	18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,588.56	647.18
		For Class 52 Rating, Deduct	-176.88	
		For Class 54 Rating, Add	120.60	
		For Class 55 Rating, Add	268.05	
40 05 19 00-0287	EA	18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,689.01	650.11
		For Class 52 Rating, Deduct	-187.44	
		For Class 54 Rating, Add	127.80	
		For Class 55 Rating, Add	284.06	
40 05 19 00-0288	EA	18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,789.47	653.05
		For Class 52 Rating, Deduct	-198.00	
		For Class 54 Rating, Add	135.00	
		For Class 55 Rating, Add	300.06	
40 05 19 00-0289	EA	18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,889.92	655.99
		For Class 52 Rating, Deduct	-208.56	
		For Class 54 Rating, Add	142.20	
		For Class 55 Rating, Add	316.06	
40 05 19 00-0290	EA	18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,990.36	658.92
		For Class 52 Rating, Deduct	-219.12	
		For Class 54 Rating, Add	149.40	
		For Class 55 Rating, Add	332.07	
40 05 19 00-0291	EA	18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,090.81	661.86
		For Class 52 Rating, Deduct	-229.68	
		For Class 54 Rating, Add	156.60	
		For Class 55 Rating, Add	348.07	
40 05 19 00-0292	EA	18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,191.26	664.79
		For Class 52 Rating, Deduct	-240.24	
		For Class 54 Rating, Add	163.80	
		For Class 55 Rating, Add	364.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0293	EA	18"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,291.71	667.72
			For Class 52 Rating, Deduct	-250.80	
			For Class 54 Rating, Add	171.00	
			For Class 55 Rating, Add	380.08	
40 05 19 00-0294	EA	18"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,392.16	670.66
			For Class 52 Rating, Deduct	-261.36	
			For Class 54 Rating, Add	178.20	
			For Class 55 Rating, Add	396.08	
40 05 19 00-0295	EA	18"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,492.61	673.60
			For Class 52 Rating, Deduct	-271.92	
			For Class 54 Rating, Add	185.40	
			For Class 55 Rating, Add	412.08	
40 05 19 00-0296	EA	18"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,593.06	676.53
			For Class 52 Rating, Deduct	-282.48	
			For Class 54 Rating, Add	192.60	
			For Class 55 Rating, Add	428.09	
40 05 19 00-0297	EA	18"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,693.51	679.47
			For Class 52 Rating, Deduct	-293.04	
			For Class 54 Rating, Add	199.80	
			For Class 55 Rating, Add	444.09	
40 05 19 00-0298	EA	18"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,793.95	682.41
			For Class 52 Rating, Deduct	-303.60	
			For Class 54 Rating, Add	207.00	
			For Class 55 Rating, Add	460.09	
40 05 19 00-0299	EA	18"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,894.40	685.34
			For Class 52 Rating, Deduct	-314.16	
			For Class 54 Rating, Add	214.20	
			For Class 55 Rating, Add	476.10	
40 05 19 00-0300	EA	18"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,994.85	688.28
			For Class 52 Rating, Deduct	-324.72	
			For Class 54 Rating, Add	221.40	
			For Class 55 Rating, Add	492.10	
40 05 19 00-0301	EA	18"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,095.31	691.22
			For Class 52 Rating, Deduct	-335.28	
			For Class 54 Rating, Add	228.60	
			For Class 55 Rating, Add	508.10	
40 05 19 00-0302	EA	18"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,195.75	694.15
			For Class 52 Rating, Deduct	-345.84	
			For Class 54 Rating, Add	235.80	
			For Class 55 Rating, Add	524.10	
40 05 19 00-0303	EA	18"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,296.20	697.09
			For Class 52 Rating, Deduct	-356.40	
			For Class 54 Rating, Add	243.00	
			For Class 55 Rating, Add	540.11	
40 05 19 00-0304	EA	18"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,396.65	700.03
			For Class 52 Rating, Deduct	-366.96	
			For Class 54 Rating, Add	250.20	
			For Class 55 Rating, Add	556.11	
40 05 19 00-0305	EA	18"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,497.10	702.96
			For Class 52 Rating, Deduct	-377.52	
			For Class 54 Rating, Add	257.40	
			For Class 55 Rating, Add	572.11	
40 05 19 00-0306	EA	18"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,597.54	705.90
			For Class 52 Rating, Deduct	-388.08	
			For Class 54 Rating, Add	264.60	
			For Class 55 Rating, Add	588.12	
40 05 19 00-0307	EA	18"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,698.00	708.84
			For Class 52 Rating, Deduct	-398.64	
			For Class 54 Rating, Add	271.80	
			For Class 55 Rating, Add	604.12	
40 05 19 00-0308	EA	18"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,798.45	711.78
			For Class 52 Rating, Deduct	-409.20	
			For Class 54 Rating, Add	279.00	
			For Class 55 Rating, Add	620.12	
40 05 19 00-0309	EA	18"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,898.90	714.71
			For Class 52 Rating, Deduct	-419.76	
			For Class 54 Rating, Add	286.20	
			For Class 55 Rating, Add	636.13	
40 05 19 00-0310	EA	18"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,999.34	717.65
			For Class 52 Rating, Deduct	-430.32	
			For Class 54 Rating, Add	293.40	
			For Class 55 Rating, Add	652.13	
40 05 19 00-0311	EA	18"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,099.79	720.59
			For Class 52 Rating, Deduct	-440.88	
			For Class 54 Rating, Add	300.60	
			For Class 55 Rating, Add	668.13	
40 05 19 00-0312	EA	18"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,200.24	723.52
			For Class 52 Rating, Deduct	-451.44	
			For Class 54 Rating, Add	307.80	
			For Class 55 Rating, Add	684.14	
40 05 19 00-0313	EA	18"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,300.69	726.46
			For Class 52 Rating, Deduct	-462.00	
			For Class 54 Rating, Add	315.00	
			For Class 55 Rating, Add	700.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0314	EA	18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,401.14	729.40
		For Class 52 Rating, Deduct	-472.56	
		For Class 54 Rating, Add	322.20	
		For Class 55 Rating, Add	716.14	
40 05 19 00-0315	EA	18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,501.59	732.33
		For Class 52 Rating, Deduct	-483.12	
		For Class 54 Rating, Add	329.40	
		For Class 55 Rating, Add	732.15	
40 05 19 00-0316	EA	18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,602.04	735.27
		For Class 52 Rating, Deduct	-493.68	
		For Class 54 Rating, Add	336.60	
		For Class 55 Rating, Add	748.15	
40 05 19 00-0317	EA	18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,702.49	738.21
		For Class 52 Rating, Deduct	-504.24	
		For Class 54 Rating, Add	343.80	
		For Class 55 Rating, Add	764.15	
40 05 19 00-0318	EA	18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,802.93	741.14
		For Class 52 Rating, Deduct	-514.80	
		For Class 54 Rating, Add	351.00	
		For Class 55 Rating, Add	780.16	
40 05 19 00-0319	EA	18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,903.38	744.07
		For Class 52 Rating, Deduct	-525.36	
		For Class 54 Rating, Add	358.20	
		For Class 55 Rating, Add	796.16	
40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)				
40 05 19 00-0321	EA	20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,546.11	725.29
		For Class 52 Rating, Deduct	-159.19	
		For Class 54 Rating, Add	108.54	
		For Class 55 Rating, Add	241.25	
40 05 19 00-0322	EA	20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,660.96	728.21
		For Class 52 Rating, Deduct	-171.34	
		For Class 54 Rating, Add	116.82	
		For Class 55 Rating, Add	259.65	
40 05 19 00-0323	EA	20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,775.81	731.15
		For Class 52 Rating, Deduct	-183.48	
		For Class 54 Rating, Add	125.10	
		For Class 55 Rating, Add	278.06	
40 05 19 00-0324	EA	20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,890.65	734.09
		For Class 52 Rating, Deduct	-195.62	
		For Class 54 Rating, Add	133.38	
		For Class 55 Rating, Add	296.46	
40 05 19 00-0325	EA	20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,005.51	737.02
		For Class 52 Rating, Deduct	-207.77	
		For Class 54 Rating, Add	141.66	
		For Class 55 Rating, Add	314.86	
40 05 19 00-0326	EA	20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,120.36	739.96
		For Class 52 Rating, Deduct	-219.91	
		For Class 54 Rating, Add	149.94	
		For Class 55 Rating, Add	333.27	
40 05 19 00-0327	EA	20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,235.21	742.90
		For Class 52 Rating, Deduct	-232.06	
		For Class 54 Rating, Add	158.22	
		For Class 55 Rating, Add	351.67	
40 05 19 00-0328	EA	20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,350.05	745.83
		For Class 52 Rating, Deduct	-244.20	
		For Class 54 Rating, Add	166.50	
		For Class 55 Rating, Add	370.07	
40 05 19 00-0329	EA	20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,464.90	748.77
		For Class 52 Rating, Deduct	-256.34	
		For Class 54 Rating, Add	174.78	
		For Class 55 Rating, Add	388.48	
40 05 19 00-0330	EA	20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,579.75	751.71
		For Class 52 Rating, Deduct	-268.49	
		For Class 54 Rating, Add	183.06	
		For Class 55 Rating, Add	406.88	
40 05 19 00-0331	EA	20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,694.61	754.64
		For Class 52 Rating, Deduct	-280.63	
		For Class 54 Rating, Add	191.34	
		For Class 55 Rating, Add	425.29	
40 05 19 00-0332	EA	20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,809.45	757.58
		For Class 52 Rating, Deduct	-292.78	
		For Class 54 Rating, Add	199.62	
		For Class 55 Rating, Add	443.69	
40 05 19 00-0333	EA	20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,924.30	760.52
		For Class 52 Rating, Deduct	-304.92	
		For Class 54 Rating, Add	207.90	
		For Class 55 Rating, Add	462.09	
40 05 19 00-0334	EA	20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,039.15	763.45
		For Class 52 Rating, Deduct	-317.06	
		For Class 54 Rating, Add	216.18	
		For Class 55 Rating, Add	480.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0335	EA	20"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,154.00	766.39
			For Class 52 Rating, Deduct	-329.21	
			For Class 54 Rating, Add	224.46	
			For Class 55 Rating, Add	498.90	
40 05 19 00-0336	EA	20"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,268.84	769.33
			For Class 52 Rating, Deduct	-341.35	
			For Class 54 Rating, Add	232.74	
			For Class 55 Rating, Add	517.30	
40 05 19 00-0337	EA	20"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,383.69	772.26
			For Class 52 Rating, Deduct	-353.50	
			For Class 54 Rating, Add	241.02	
			For Class 55 Rating, Add	535.71	
40 05 19 00-0338	EA	20"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,498.55	775.20
			For Class 52 Rating, Deduct	-365.64	
			For Class 54 Rating, Add	249.30	
			For Class 55 Rating, Add	554.11	
40 05 19 00-0339	EA	20"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,613.40	778.14
			For Class 52 Rating, Deduct	-377.78	
			For Class 54 Rating, Add	257.58	
			For Class 55 Rating, Add	572.51	
40 05 19 00-0340	EA	20"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,728.24	781.07
			For Class 52 Rating, Deduct	-389.93	
			For Class 54 Rating, Add	265.86	
			For Class 55 Rating, Add	590.92	
40 05 19 00-0341	EA	20"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,843.09	784.01
			For Class 52 Rating, Deduct	-402.07	
			For Class 54 Rating, Add	274.14	
			For Class 55 Rating, Add	609.32	
40 05 19 00-0342	EA	20"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,957.94	786.95
			For Class 52 Rating, Deduct	-414.22	
			For Class 54 Rating, Add	282.42	
			For Class 55 Rating, Add	627.73	
40 05 19 00-0343	EA	20"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,072.79	789.88
			For Class 52 Rating, Deduct	-426.36	
			For Class 54 Rating, Add	290.70	
			For Class 55 Rating, Add	646.13	
40 05 19 00-0344	EA	20"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,187.64	792.82
			For Class 52 Rating, Deduct	-438.50	
			For Class 54 Rating, Add	298.98	
			For Class 55 Rating, Add	664.53	
40 05 19 00-0345	EA	20"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,302.49	795.76
			For Class 52 Rating, Deduct	-450.65	
			For Class 54 Rating, Add	307.26	
			For Class 55 Rating, Add	682.94	
40 05 19 00-0346	EA	20"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,417.34	798.69
			For Class 52 Rating, Deduct	-462.79	
			For Class 54 Rating, Add	315.54	
			For Class 55 Rating, Add	701.34	
40 05 19 00-0347	EA	20"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,532.19	801.63
			For Class 52 Rating, Deduct	-474.94	
			For Class 54 Rating, Add	323.82	
			For Class 55 Rating, Add	719.74	
40 05 19 00-0348	EA	20"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,647.03	804.56
			For Class 52 Rating, Deduct	-487.08	
			For Class 54 Rating, Add	332.10	
			For Class 55 Rating, Add	738.15	
40 05 19 00-0349	EA	20"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,761.88	807.50
			For Class 52 Rating, Deduct	-499.22	
			For Class 54 Rating, Add	340.38	
			For Class 55 Rating, Add	756.55	
40 05 19 00-0350	EA	20"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,876.73	810.43
			For Class 52 Rating, Deduct	-511.37	
			For Class 54 Rating, Add	348.66	
			For Class 55 Rating, Add	774.95	
40 05 19 00-0351	EA	20"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,991.59	813.37
			For Class 52 Rating, Deduct	-523.51	
			For Class 54 Rating, Add	356.94	
			For Class 55 Rating, Add	793.36	
40 05 19 00-0352	EA	20"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,106.43	816.31
			For Class 52 Rating, Deduct	-535.66	
			For Class 54 Rating, Add	365.22	
			For Class 55 Rating, Add	811.76	
40 05 19 00-0353	EA	20"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,221.28	819.24
			For Class 52 Rating, Deduct	-547.80	
			For Class 54 Rating, Add	373.50	
			For Class 55 Rating, Add	830.17	
40 05 19 00-0354	EA	20"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,336.13	822.18
			For Class 52 Rating, Deduct	-559.94	
			For Class 54 Rating, Add	381.78	
			For Class 55 Rating, Add	848.57	
40 05 19 00-0355	EA	20"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,450.98	825.12
			For Class 52 Rating, Deduct	-572.09	
			For Class 54 Rating, Add	390.06	
			For Class 55 Rating, Add	866.97	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0356	EA	20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,565.82	828.05
		For Class 52 Rating, Deduct	-584.23	
		For Class 54 Rating, Add	398.34	
		For Class 55 Rating, Add	885.38	
40 05 19 00-0357	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,680.68	830.99
		For Class 52 Rating, Deduct	-596.38	
		For Class 54 Rating, Add	406.62	
		For Class 55 Rating, Add	903.78	
40 05 19 00-0358	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,795.53	833.93
		For Class 52 Rating, Deduct	-608.52	
		For Class 54 Rating, Add	414.90	
		For Class 55 Rating, Add	922.18	
40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)				
40 05 19 00-0360	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,105.52	857.42
		For Class 52 Rating, Deduct	-198.70	
		For Class 54 Rating, Add	135.48	
		For Class 55 Rating, Add	301.13	
40 05 19 00-0361	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,246.77	860.36
		For Class 52 Rating, Deduct	-213.75	
		For Class 54 Rating, Add	145.74	
		For Class 55 Rating, Add	323.93	
40 05 19 00-0362	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,388.01	863.29
		For Class 52 Rating, Deduct	-228.80	
		For Class 54 Rating, Add	156.00	
		For Class 55 Rating, Add	346.74	
40 05 19 00-0363	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,529.26	866.23
		For Class 52 Rating, Deduct	-243.85	
		For Class 54 Rating, Add	166.26	
		For Class 55 Rating, Add	369.54	
40 05 19 00-0364	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,670.52	869.17
		For Class 52 Rating, Deduct	-258.90	
		For Class 54 Rating, Add	176.52	
		For Class 55 Rating, Add	392.35	
40 05 19 00-0365	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,811.77	872.10
		For Class 52 Rating, Deduct	-273.94	
		For Class 54 Rating, Add	186.78	
		For Class 55 Rating, Add	415.15	
40 05 19 00-0366	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,953.01	875.04
		For Class 52 Rating, Deduct	-288.99	
		For Class 54 Rating, Add	197.04	
		For Class 55 Rating, Add	437.95	
40 05 19 00-0367	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,094.26	877.98
		For Class 52 Rating, Deduct	-304.04	
		For Class 54 Rating, Add	207.30	
		For Class 55 Rating, Add	460.76	
40 05 19 00-0368	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,235.51	880.90
		For Class 52 Rating, Deduct	-319.09	
		For Class 54 Rating, Add	217.56	
		For Class 55 Rating, Add	483.56	
40 05 19 00-0369	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,376.76	883.84
		For Class 52 Rating, Deduct	-334.14	
		For Class 54 Rating, Add	227.82	
		For Class 55 Rating, Add	506.37	
40 05 19 00-0370	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,518.00	886.78
		For Class 52 Rating, Deduct	-349.18	
		For Class 54 Rating, Add	238.08	
		For Class 55 Rating, Add	529.17	
40 05 19 00-0371	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,659.26	889.71
		For Class 52 Rating, Deduct	-364.23	
		For Class 54 Rating, Add	248.34	
		For Class 55 Rating, Add	551.98	
40 05 19 00-0372	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,800.51	892.65
		For Class 52 Rating, Deduct	-379.28	
		For Class 54 Rating, Add	258.60	
		For Class 55 Rating, Add	574.78	
40 05 19 00-0373	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,941.76	895.59
		For Class 52 Rating, Deduct	-394.33	
		For Class 54 Rating, Add	268.86	
		For Class 55 Rating, Add	597.59	
40 05 19 00-0374	EA	24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,083.00	898.52
		For Class 52 Rating, Deduct	-409.38	
		For Class 54 Rating, Add	279.12	
		For Class 55 Rating, Add	620.39	
40 05 19 00-0375	EA	24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,224.25	901.46
		For Class 52 Rating, Deduct	-424.42	
		For Class 54 Rating, Add	289.38	
		For Class 55 Rating, Add	643.20	
40 05 19 00-0376	EA	24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,365.50	904.40
		For Class 52 Rating, Deduct	-439.47	
		For Class 54 Rating, Add	299.64	
		For Class 55 Rating, Add	666.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0377	EA	24"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,506.76	907.33
			For Class 52 Rating, Deduct	-454.52	
			For Class 54 Rating, Add	309.90	
			For Class 55 Rating, Add	688.80	
40 05 19 00-0378	EA	24"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,648.00	910.27
			For Class 52 Rating, Deduct	-469.57	
			For Class 54 Rating, Add	320.16	
			For Class 55 Rating, Add	711.61	
40 05 19 00-0379	EA	24"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,789.25	913.21
			For Class 52 Rating, Deduct	-484.62	
			For Class 54 Rating, Add	330.42	
			For Class 55 Rating, Add	734.41	
40 05 19 00-0380	EA	24"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,930.50	916.14
			For Class 52 Rating, Deduct	-499.66	
			For Class 54 Rating, Add	340.68	
			For Class 55 Rating, Add	757.22	
40 05 19 00-0381	EA	24"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,071.75	919.08
			For Class 52 Rating, Deduct	-514.71	
			For Class 54 Rating, Add	350.94	
			For Class 55 Rating, Add	780.02	
40 05 19 00-0382	EA	24"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,212.99	922.02
			For Class 52 Rating, Deduct	-529.76	
			For Class 54 Rating, Add	361.20	
			For Class 55 Rating, Add	802.83	
40 05 19 00-0383	EA	24"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,354.24	924.96
			For Class 52 Rating, Deduct	-544.81	
			For Class 54 Rating, Add	371.46	
			For Class 55 Rating, Add	825.63	
40 05 19 00-0384	EA	24"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,495.50	927.89
			For Class 52 Rating, Deduct	-559.86	
			For Class 54 Rating, Add	381.72	
			For Class 55 Rating, Add	848.44	
40 05 19 00-0385	EA	24"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,636.75	930.83
			For Class 52 Rating, Deduct	-574.90	
			For Class 54 Rating, Add	391.98	
			For Class 55 Rating, Add	871.24	
40 05 19 00-0386	EA	24"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,777.99	933.77
			For Class 52 Rating, Deduct	-589.95	
			For Class 54 Rating, Add	402.24	
			For Class 55 Rating, Add	894.05	
40 05 19 00-0387	EA	24"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,919.24	936.70
			For Class 52 Rating, Deduct	-605.00	
			For Class 54 Rating, Add	412.50	
			For Class 55 Rating, Add	916.85	
40 05 19 00-0388	EA	24"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,060.49	939.64
			For Class 52 Rating, Deduct	-620.05	
			For Class 54 Rating, Add	422.76	
			For Class 55 Rating, Add	939.65	
40 05 19 00-0389	EA	24"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,277.37	992.49
			For Class 52 Rating, Deduct	-635.10	
			For Class 54 Rating, Add	433.02	
			For Class 55 Rating, Add	962.46	
40 05 19 00-0390	EA	24"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,418.62	995.43
			For Class 52 Rating, Deduct	-650.14	
			For Class 54 Rating, Add	443.28	
			For Class 55 Rating, Add	985.26	
40 05 19 00-0391	EA	24"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,559.87	998.36
			For Class 52 Rating, Deduct	-665.19	
			For Class 54 Rating, Add	453.54	
			For Class 55 Rating, Add	1,008.07	
40 05 19 00-0392	EA	24"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,701.12	1,001.30
			For Class 52 Rating, Deduct	-680.24	
			For Class 54 Rating, Add	463.80	
			For Class 55 Rating, Add	1,030.87	
40 05 19 00-0393	EA	24"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,842.37	1,004.24
			For Class 52 Rating, Deduct	-695.29	
			For Class 54 Rating, Add	474.06	
			For Class 55 Rating, Add	1,053.68	
40 05 19 00-0394	EA	24"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,983.62	1,007.17
			For Class 52 Rating, Deduct	-710.34	
			For Class 54 Rating, Add	484.32	
			For Class 55 Rating, Add	1,076.48	
40 05 19 00-0395	EA	24"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,124.87	1,010.11
			For Class 52 Rating, Deduct	-725.38	
			For Class 54 Rating, Add	494.58	
			For Class 55 Rating, Add	1,099.29	
40 05 19 00-0396	EA	24"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,266.12	1,013.05
			For Class 52 Rating, Deduct	-740.43	
			For Class 54 Rating, Add	504.84	
			For Class 55 Rating, Add	1,122.09	
40 05 19 00-0397	EA	24"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,407.36	1,015.98
			For Class 52 Rating, Deduct	-755.48	
			For Class 54 Rating, Add	515.10	
			For Class 55 Rating, Add	1,144.90	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
40 05 19 00-0398	30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)				
40 05 19 00-0399	EA 30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,705.00	1,209.78	
	For Class 52 Rating, Deduct		-315.92		
	For Class 54 Rating, Add		215.40		
	For Class 55 Rating, Add		478.76		
40 05 19 00-0400	EA 30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,907.05	1,212.72	
	For Class 52 Rating, Deduct		-337.66		
	For Class 54 Rating, Add		230.22		
	For Class 55 Rating, Add		511.70		
40 05 19 00-0401	EA 30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,109.10	1,215.65	
	For Class 52 Rating, Deduct		-359.39		
	For Class 54 Rating, Add		245.04		
	For Class 55 Rating, Add		544.64		
40 05 19 00-0402	EA 30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,311.15	1,218.59	
	For Class 52 Rating, Deduct		-381.13		
	For Class 54 Rating, Add		259.86		
	For Class 55 Rating, Add		577.58		
40 05 19 00-0403	EA 30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,513.20	1,221.53	
	For Class 52 Rating, Deduct		-402.86		
	For Class 54 Rating, Add		274.68		
	For Class 55 Rating, Add		610.52		
40 05 19 00-0404	EA 30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,715.24	1,224.46	
	For Class 52 Rating, Deduct		-424.60		
	For Class 54 Rating, Add		289.50		
	For Class 55 Rating, Add		643.46		
40 05 19 00-0405	EA 30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,917.29	1,227.40	
	For Class 52 Rating, Deduct		-446.34		
	For Class 54 Rating, Add		304.32		
	For Class 55 Rating, Add		676.40		
40 05 19 00-0406	EA 30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,119.34	1,230.34	
	For Class 52 Rating, Deduct		-468.07		
	For Class 54 Rating, Add		319.14		
	For Class 55 Rating, Add		709.34		
40 05 19 00-0407	EA 30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,321.40	1,233.27	
	For Class 52 Rating, Deduct		-489.81		
	For Class 54 Rating, Add		333.96		
	For Class 55 Rating, Add		742.28		
40 05 19 00-0408	EA 30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,523.44	1,236.21	
	For Class 52 Rating, Deduct		-511.54		
	For Class 54 Rating, Add		348.78		
	For Class 55 Rating, Add		775.22		
40 05 19 00-0409	EA 30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,725.49	1,239.15	
	For Class 52 Rating, Deduct		-533.28		
	For Class 54 Rating, Add		363.60		
	For Class 55 Rating, Add		808.16		
40 05 19 00-0410	EA 30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,927.54	1,242.08	
	For Class 52 Rating, Deduct		-555.02		
	For Class 54 Rating, Add		378.42		
	For Class 55 Rating, Add		841.10		
40 05 19 00-0411	EA 30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,129.59	1,245.02	
	For Class 52 Rating, Deduct		-576.75		
	For Class 54 Rating, Add		393.24		
	For Class 55 Rating, Add		874.04		
40 05 19 00-0412	EA 30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,331.63	1,247.96	
	For Class 52 Rating, Deduct		-598.49		
	For Class 54 Rating, Add		408.06		
	For Class 55 Rating, Add		906.98		
40 05 19 00-0413	EA 30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,533.69	1,250.89	
	For Class 52 Rating, Deduct		-620.22		
	For Class 54 Rating, Add		422.88		
	For Class 55 Rating, Add		939.92		
40 05 19 00-0414	EA 30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,735.74	1,253.83	
	For Class 52 Rating, Deduct		-641.96		
	For Class 54 Rating, Add		437.70		
	For Class 55 Rating, Add		972.86		
40 05 19 00-0415	EA 30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,937.79	1,256.77	
	For Class 52 Rating, Deduct		-663.70		
	For Class 54 Rating, Add		452.52		
	For Class 55 Rating, Add		1,005.80		
40 05 19 00-0416	EA 30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,139.83	1,259.70	
	For Class 52 Rating, Deduct		-685.43		
	For Class 54 Rating, Add		467.34		
	For Class 55 Rating, Add		1,038.74		
40 05 19 00-0417	EA 30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,341.88	1,262.63	
	For Class 52 Rating, Deduct		-707.17		
	For Class 54 Rating, Add		482.16		
	For Class 55 Rating, Add		1,071.68		
40 05 19 00-0418	EA 30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,543.93	1,265.57	
	For Class 52 Rating, Deduct		-728.90		
	For Class 54 Rating, Add		496.98		
	For Class 55 Rating, Add		1,104.62		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0419	EA	30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,745.98	1,268.50
		For Class 52 Rating, Deduct	-750.64	
		For Class 54 Rating, Add	511.80	
		For Class 55 Rating, Add	1,137.56	
40 05 19 00-0420	EA	30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,948.03	1,271.44
		For Class 52 Rating, Deduct	-772.38	
		For Class 54 Rating, Add	526.62	
		For Class 55 Rating, Add	1,170.50	
40 05 19 00-0421	EA	30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,150.08	1,274.38
		For Class 52 Rating, Deduct	-794.11	
		For Class 54 Rating, Add	541.44	
		For Class 55 Rating, Add	1,203.44	
40 05 19 00-0422	EA	30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,352.13	1,277.31
		For Class 52 Rating, Deduct	-815.85	
		For Class 54 Rating, Add	556.26	
		For Class 55 Rating, Add	1,236.38	
40 05 19 00-0423	EA	30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,553.38	1,280.25
		For Class 52 Rating, Deduct	-837.50	
		For Class 54 Rating, Add	571.02	
		For Class 55 Rating, Add	1,269.19	
40 05 19 00-0424	EA	30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,756.22	1,283.19
		For Class 52 Rating, Deduct	-859.32	
		For Class 54 Rating, Add	585.90	
		For Class 55 Rating, Add	1,302.26	
40 05 19 00-0425	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,958.27	1,286.12
		For Class 52 Rating, Deduct	-881.06	
		For Class 54 Rating, Add	600.72	
		For Class 55 Rating, Add	1,335.20	
40 05 19 00-0426	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,160.33	1,289.06
		For Class 52 Rating, Deduct	-902.79	
		For Class 54 Rating, Add	615.54	
		For Class 55 Rating, Add	1,368.14	
40 05 19 00-0427	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,362.38	1,292.00
		For Class 52 Rating, Deduct	-924.53	
		For Class 54 Rating, Add	630.36	
		For Class 55 Rating, Add	1,401.08	
40 05 19 00-0428	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,564.42	1,294.93
		For Class 52 Rating, Deduct	-946.26	
		For Class 54 Rating, Add	645.18	
		For Class 55 Rating, Add	1,434.02	
40 05 19 00-0429	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,766.47	1,297.87
		For Class 52 Rating, Deduct	-968.00	
		For Class 54 Rating, Add	660.00	
		For Class 55 Rating, Add	1,466.96	
40 05 19 00-0430	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,968.52	1,300.81
		For Class 52 Rating, Deduct	-989.74	
		For Class 54 Rating, Add	674.82	
		For Class 55 Rating, Add	1,499.90	
40 05 19 00-0431	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,170.57	1,303.75
		For Class 52 Rating, Deduct	-1,011.47	
		For Class 54 Rating, Add	689.64	
		For Class 55 Rating, Add	1,532.84	
40 05 19 00-0432	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,372.61	1,306.68
		For Class 52 Rating, Deduct	-1,033.21	
		For Class 54 Rating, Add	704.46	
		For Class 55 Rating, Add	1,565.78	
40 05 19 00-0433	EA	30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,574.67	1,309.62
		For Class 52 Rating, Deduct	-1,054.94	
		For Class 54 Rating, Add	719.28	
		For Class 55 Rating, Add	1,598.72	
40 05 19 00-0434	EA	30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,776.72	1,312.56
		For Class 52 Rating, Deduct	-1,076.68	
		For Class 54 Rating, Add	734.10	
		For Class 55 Rating, Add	1,631.66	
40 05 19 00-0435	EA	30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,978.77	1,315.49
		For Class 52 Rating, Deduct	-1,098.42	
		For Class 54 Rating, Add	748.92	
		For Class 55 Rating, Add	1,664.60	
40 05 19 00-0436	EA	30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,180.81	1,318.43
		For Class 52 Rating, Deduct	-1,120.15	
		For Class 54 Rating, Add	763.74	
		For Class 55 Rating, Add	1,697.54	
40 05 19 00-0437		36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0438	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,431.99	1,532.78
		For Class 52 Rating, Deduct	-452.06	
		For Class 54 Rating, Add	308.22	
		For Class 55 Rating, Add	685.07	
40 05 19 00-0439	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,705.24	1,535.72
		For Class 52 Rating, Deduct	-481.62	
		For Class 54 Rating, Add	328.38	
		For Class 55 Rating, Add	729.88	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0440	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,978.50	1,538.65
		For Class 52 Rating, Deduct	-511.19	
		For Class 54 Rating, Add	348.54	
		For Class 55 Rating, Add	774.69	
40 05 19 00-0441	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,251.74	1,541.59
		For Class 52 Rating, Deduct	-540.76	
		For Class 54 Rating, Add	368.70	
		For Class 55 Rating, Add	819.50	
40 05 19 00-0442	EA	36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,524.99	1,544.53
		For Class 52 Rating, Deduct	-570.33	
		For Class 54 Rating, Add	388.86	
		For Class 55 Rating, Add	864.31	
40 05 19 00-0443	EA	36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,798.24	1,547.47
		For Class 52 Rating, Deduct	-599.90	
		For Class 54 Rating, Add	409.02	
		For Class 55 Rating, Add	909.12	
40 05 19 00-0444	EA	36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,071.49	1,550.40
		For Class 52 Rating, Deduct	-629.46	
		For Class 54 Rating, Add	429.18	
		For Class 55 Rating, Add	953.92	
40 05 19 00-0445	EA	36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,344.73	1,553.34
		For Class 52 Rating, Deduct	-659.03	
		For Class 54 Rating, Add	449.34	
		For Class 55 Rating, Add	998.73	
40 05 19 00-0446	EA	36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,617.99	1,556.28
		For Class 52 Rating, Deduct	-688.60	
		For Class 54 Rating, Add	469.50	
		For Class 55 Rating, Add	1,043.54	
40 05 19 00-0447	EA	36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,891.24	1,559.21
		For Class 52 Rating, Deduct	-718.17	
		For Class 54 Rating, Add	489.66	
		For Class 55 Rating, Add	1,088.35	
40 05 19 00-0448	EA	36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,164.49	1,562.15
		For Class 52 Rating, Deduct	-747.74	
		For Class 54 Rating, Add	509.82	
		For Class 55 Rating, Add	1,133.16	
40 05 19 00-0449	EA	36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,437.73	1,565.09
		For Class 52 Rating, Deduct	-777.30	
		For Class 54 Rating, Add	529.98	
		For Class 55 Rating, Add	1,177.97	
40 05 19 00-0450	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,710.98	1,568.01
		For Class 52 Rating, Deduct	-806.87	
		For Class 54 Rating, Add	550.14	
		For Class 55 Rating, Add	1,222.78	
40 05 19 00-0451	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,984.23	1,570.95
		For Class 52 Rating, Deduct	-836.44	
		For Class 54 Rating, Add	570.30	
		For Class 55 Rating, Add	1,267.59	
40 05 19 00-0452	EA	36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,257.48	1,573.89
		For Class 52 Rating, Deduct	-866.01	
		For Class 54 Rating, Add	590.46	
		For Class 55 Rating, Add	1,312.40	
40 05 19 00-0453	EA	36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,530.73	1,576.82
		For Class 52 Rating, Deduct	-895.58	
		For Class 54 Rating, Add	610.62	
		For Class 55 Rating, Add	1,357.20	
40 05 19 00-0454	EA	36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,803.98	1,579.76
		For Class 52 Rating, Deduct	-925.14	
		For Class 54 Rating, Add	630.78	
		For Class 55 Rating, Add	1,402.01	
40 05 19 00-0455	EA	36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,077.23	1,582.70
		For Class 52 Rating, Deduct	-954.71	
		For Class 54 Rating, Add	650.94	
		For Class 55 Rating, Add	1,446.82	
40 05 19 00-0456	EA	36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,350.48	1,585.63
		For Class 52 Rating, Deduct	-984.28	
		For Class 54 Rating, Add	671.10	
		For Class 55 Rating, Add	1,491.63	
40 05 19 00-0457	EA	36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,623.72	1,588.57
		For Class 52 Rating, Deduct	-1,013.85	
		For Class 54 Rating, Add	691.26	
		For Class 55 Rating, Add	1,536.44	
40 05 19 00-0458	EA	36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,896.97	1,591.51
		For Class 52 Rating, Deduct	-1,043.42	
		For Class 54 Rating, Add	711.42	
		For Class 55 Rating, Add	1,581.25	
40 05 19 00-0459	EA	36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,170.23	1,594.44
		For Class 52 Rating, Deduct	-1,072.98	
		For Class 54 Rating, Add	731.58	
		For Class 55 Rating, Add	1,626.06	
40 05 19 00-0460	EA	36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,443.48	1,597.38
		For Class 52 Rating, Deduct	-1,102.55	
		For Class 54 Rating, Add	751.74	
		For Class 55 Rating, Add	1,670.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0461	EA	36"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,716.72	1,600.32
			For Class 52 Rating, Deduct	-1,132.12	
			For Class 54 Rating, Add	771.90	
			For Class 55 Rating, Add	1,715.68	
40 05 19 00-0462	EA	36"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,989.97	1,603.25
			For Class 52 Rating, Deduct	-1,161.69	
			For Class 54 Rating, Add	792.06	
			For Class 55 Rating, Add	1,760.49	
40 05 19 00-0463	EA	36"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,263.22	1,606.19
			For Class 52 Rating, Deduct	-1,191.26	
			For Class 54 Rating, Add	812.22	
			For Class 55 Rating, Add	1,805.29	
40 05 19 00-0464	EA	36"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,536.47	1,609.13
			For Class 52 Rating, Deduct	-1,220.82	
			For Class 54 Rating, Add	832.38	
			For Class 55 Rating, Add	1,850.10	
40 05 19 00-0465	EA	36"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,809.71	1,612.06
			For Class 52 Rating, Deduct	-1,250.39	
			For Class 54 Rating, Add	852.54	
			For Class 55 Rating, Add	1,894.91	
40 05 19 00-0466	EA	36"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,082.97	1,615.00
			For Class 52 Rating, Deduct	-1,279.96	
			For Class 54 Rating, Add	872.70	
			For Class 55 Rating, Add	1,939.72	
40 05 19 00-0467	EA	36"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,356.22	1,617.94
			For Class 52 Rating, Deduct	-1,309.53	
			For Class 54 Rating, Add	892.86	
			For Class 55 Rating, Add	1,984.53	
40 05 19 00-0468	EA	36"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,629.47	1,620.87
			For Class 52 Rating, Deduct	-1,339.10	
			For Class 54 Rating, Add	913.02	
			For Class 55 Rating, Add	2,029.34	
40 05 19 00-0469	EA	36"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,902.71	1,623.81
			For Class 52 Rating, Deduct	-1,368.66	
			For Class 54 Rating, Add	933.18	
			For Class 55 Rating, Add	2,074.15	
40 05 19 00-0470	EA	36"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,175.96	1,626.75
			For Class 52 Rating, Deduct	-1,398.23	
			For Class 54 Rating, Add	953.34	
			For Class 55 Rating, Add	2,118.96	
40 05 19 00-0471	EA	36"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,449.21	1,629.68
			For Class 52 Rating, Deduct	-1,427.80	
			For Class 54 Rating, Add	973.50	
			For Class 55 Rating, Add	2,163.77	
40 05 19 00-0472	EA	36"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,722.47	1,632.62
			For Class 52 Rating, Deduct	-1,457.37	
			For Class 54 Rating, Add	993.66	
			For Class 55 Rating, Add	2,208.57	
40 05 19 00-0473	EA	36"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,995.71	1,635.56
			For Class 52 Rating, Deduct	-1,486.94	
			For Class 54 Rating, Add	1,013.82	
			For Class 55 Rating, Add	2,253.38	
40 05 19 00-0474	EA	36"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,268.96	1,638.49
			For Class 52 Rating, Deduct	-1,516.50	
			For Class 54 Rating, Add	1,033.98	
			For Class 55 Rating, Add	2,298.19	
40 05 19 00-0475	EA	36"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,542.21	1,641.43
			For Class 52 Rating, Deduct	-1,546.07	
			For Class 54 Rating, Add	1,054.14	
			For Class 55 Rating, Add	2,343.00	
40 05 19 00-0476			42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0477	EA	42"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,409.86	1,932.13
			For Class 52 Rating, Deduct	-603.06	
			For Class 54 Rating, Add	411.18	
			For Class 55 Rating, Add	913.92	
40 05 19 00-0478	EA	42"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,815.91	1,935.07
			For Class 52 Rating, Deduct	-647.24	
			For Class 54 Rating, Add	441.30	
			For Class 55 Rating, Add	980.86	
40 05 19 00-0479	EA	42"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,217.17	1,938.00
			For Class 52 Rating, Deduct	-690.89	
			For Class 54 Rating, Add	471.06	
			For Class 55 Rating, Add	1,047.01	
40 05 19 00-0480	EA	42"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,622.41	1,940.94
			For Class 52 Rating, Deduct	-734.98	
			For Class 54 Rating, Add	501.12	
			For Class 55 Rating, Add	1,113.82	
40 05 19 00-0481	EA	42"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,023.66	1,943.88
			For Class 52 Rating, Deduct	-778.62	
			For Class 54 Rating, Add	530.88	
			For Class 55 Rating, Add	1,179.97	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0482	EA	42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,429.71	1,946.81
		For Class 52 Rating, Deduct	-822.80	
		For Class 54 Rating, Add	561.00	
		For Class 55 Rating, Add	1,246.92	
40 05 19 00-0483	EA	42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,830.16	1,949.74
		For Class 52 Rating, Deduct	-866.36	
		For Class 54 Rating, Add	590.70	
		For Class 55 Rating, Add	1,312.93	
40 05 19 00-0484	EA	42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,236.20	1,952.68
		For Class 52 Rating, Deduct	-910.54	
		For Class 54 Rating, Add	620.82	
		For Class 55 Rating, Add	1,379.88	
40 05 19 00-0485	EA	42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,637.45	1,955.61
		For Class 52 Rating, Deduct	-954.18	
		For Class 54 Rating, Add	650.58	
		For Class 55 Rating, Add	1,446.02	
40 05 19 00-0486	EA	42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,042.71	1,958.55
		For Class 52 Rating, Deduct	-998.27	
		For Class 54 Rating, Add	680.64	
		For Class 55 Rating, Add	1,512.84	
40 05 19 00-0487	EA	42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,443.96	1,961.49
		For Class 52 Rating, Deduct	-1,041.92	
		For Class 54 Rating, Add	710.40	
		For Class 55 Rating, Add	1,578.98	
40 05 19 00-0488	EA	42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,849.20	1,964.42
		For Class 52 Rating, Deduct	-1,086.01	
		For Class 54 Rating, Add	740.46	
		For Class 55 Rating, Add	1,645.80	
40 05 19 00-0489	EA	42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,250.45	1,967.36
		For Class 52 Rating, Deduct	-1,129.66	
		For Class 54 Rating, Add	770.22	
		For Class 55 Rating, Add	1,711.94	
40 05 19 00-0490	EA	42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,652.50	1,970.30
		For Class 52 Rating, Deduct	-1,173.39	
		For Class 54 Rating, Add	800.04	
		For Class 55 Rating, Add	1,778.22	
40 05 19 00-0491	EA	42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,056.95	1,973.23
		For Class 52 Rating, Deduct	-1,217.39	
		For Class 54 Rating, Add	830.04	
		For Class 55 Rating, Add	1,844.90	
40 05 19 00-0492	EA	42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,458.20	1,976.17
		For Class 52 Rating, Deduct	-1,261.04	
		For Class 54 Rating, Add	859.80	
		For Class 55 Rating, Add	1,911.05	
40 05 19 00-0493	EA	42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,864.25	1,979.11
		For Class 52 Rating, Deduct	-1,305.22	
		For Class 54 Rating, Add	889.92	
		For Class 55 Rating, Add	1,978.00	
40 05 19 00-0494	EA	42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,265.50	1,982.04
		For Class 52 Rating, Deduct	-1,348.86	
		For Class 54 Rating, Add	919.68	
		For Class 55 Rating, Add	2,044.14	
40 05 19 00-0495	EA	42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,670.75	1,984.98
		For Class 52 Rating, Deduct	-1,392.95	
		For Class 54 Rating, Add	949.74	
		For Class 55 Rating, Add	2,110.96	
40 05 19 00-0496	EA	42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,071.99	1,987.92
		For Class 52 Rating, Deduct	-1,436.60	
		For Class 54 Rating, Add	979.50	
		For Class 55 Rating, Add	2,177.10	
40 05 19 00-0497	EA	42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,478.04	1,990.85
		For Class 52 Rating, Deduct	-1,480.78	
		For Class 54 Rating, Add	1,009.62	
		For Class 55 Rating, Add	2,244.05	
40 05 19 00-0498	EA	42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,879.29	1,993.79
		For Class 52 Rating, Deduct	-1,524.42	
		For Class 54 Rating, Add	1,039.38	
		For Class 55 Rating, Add	2,310.20	
40 05 19 00-0499	EA	42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,284.55	1,996.73
		For Class 52 Rating, Deduct	-1,568.51	
		For Class 54 Rating, Add	1,069.44	
		For Class 55 Rating, Add	2,377.01	
40 05 19 00-0500	EA	42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,685.79	1,999.66
		For Class 52 Rating, Deduct	-1,612.16	
		For Class 54 Rating, Add	1,099.20	
		For Class 55 Rating, Add	2,443.16	
40 05 19 00-0501	EA	42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,091.84	2,002.60
		For Class 52 Rating, Deduct	-1,656.34	
		For Class 54 Rating, Add	1,129.32	
		For Class 55 Rating, Add	2,510.10	
40 05 19 00-0502	EA	42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,493.09	2,005.54
		For Class 52 Rating, Deduct	-1,699.98	
		For Class 54 Rating, Add	1,159.08	
		For Class 55 Rating, Add	2,576.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0503 EA 42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	18,897.54 -1,743.98 1,189.08 2,642.93	2,008.47
40 05 19 00-0504 EA 42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	19,299.58 -1,787.72 1,218.90 2,709.21	2,011.41
40 05 19 00-0505 EA 42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	19,620.84 -1,822.57 1,242.66 2,762.02	2,014.35
40 05 19 00-0506 EA 42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	20,106.09 -1,875.46 1,278.72 2,842.17	2,017.28
40 05 19 00-0507 EA 42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	20,507.34 -1,919.10 1,308.48 2,908.31	2,020.22
40 05 19 00-0508 EA 42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	20,912.58 -1,963.19 1,338.54 2,975.13	2,023.16
40 05 19 00-0509 EA 42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	21,313.83 -2,006.84 1,368.30 3,041.27	2,026.08
40 05 19 00-0510 EA 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	21,719.88 -2,051.02 1,398.42 3,108.22	2,029.02
40 05 19 00-0511 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	22,120.33 -2,094.58 1,428.12 3,174.23	2,031.96
40 05 19 00-0512 EA 42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	22,526.38 -2,138.75 1,458.24 3,241.18	2,034.89
40 05 19 00-0513 EA 42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	22,927.63 -2,182.40 1,488.00 3,307.33	2,037.83
40 05 19 00-0514 EA 42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	23,332.88 -2,226.49 1,518.06 3,374.14	2,040.77
40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0516 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	10,552.95 -756.10 515.52 1,145.83	2,428.37
40 05 19 00-0517 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	11,142.19 -820.42 559.38 1,243.32	2,431.31
40 05 19 00-0518 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	11,730.65 -884.66 603.18 1,340.67	2,434.24
40 05 19 00-0519 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	12,323.90 -949.43 647.34 1,438.82	2,437.18
40 05 19 00-0520 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	12,913.15 -1,013.76 691.20 1,536.31	2,440.12
40 05 19 00-0521 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	13,502.39 -1,078.09 735.06 1,633.79	2,443.05
40 05 19 00-0522 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	14,094.84 -1,142.77 779.16 1,731.81	2,445.99
40 05 19 00-0523 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	14,684.89 -1,207.18 823.08 1,829.43	2,448.93

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0524 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,273.34	2,451.86
For Class 52 Rating, Deduct	-1,271.42	
For Class 54 Rating, Add	866.88	
For Class 55 Rating, Add	1,926.79	
40 05 19 00-0525 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,866.59	2,454.80
For Class 52 Rating, Deduct	-1,336.19	
For Class 54 Rating, Add	911.04	
For Class 55 Rating, Add	2,024.94	
40 05 19 00-0526 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,455.84	2,457.74
For Class 52 Rating, Deduct	-1,400.52	
For Class 54 Rating, Add	954.90	
For Class 55 Rating, Add	2,122.42	
40 05 19 00-0527 EA 48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,049.09	2,460.67
For Class 52 Rating, Deduct	-1,465.29	
For Class 54 Rating, Add	999.06	
For Class 55 Rating, Add	2,220.58	
40 05 19 00-0528 EA 48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,637.54	2,463.61
For Class 52 Rating, Deduct	-1,529.53	
For Class 54 Rating, Add	1,042.86	
For Class 55 Rating, Add	2,317.93	
40 05 19 00-0529 EA 48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,226.78	2,466.55
For Class 52 Rating, Deduct	-1,593.86	
For Class 54 Rating, Add	1,086.72	
For Class 55 Rating, Add	2,415.42	
40 05 19 00-0530 EA 48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,820.03	2,469.48
For Class 52 Rating, Deduct	-1,658.62	
For Class 54 Rating, Add	1,130.88	
For Class 55 Rating, Add	2,513.57	
40 05 19 00-0531 EA 48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,409.29	2,472.42
For Class 52 Rating, Deduct	-1,722.95	
For Class 54 Rating, Add	1,174.74	
For Class 55 Rating, Add	2,611.06	
40 05 19 00-0532 EA 48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,997.74	2,475.36
For Class 52 Rating, Deduct	-1,787.19	
For Class 54 Rating, Add	1,218.54	
For Class 55 Rating, Add	2,708.41	
40 05 19 00-0533 EA 48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,590.98	2,478.29
For Class 52 Rating, Deduct	-1,851.96	
For Class 54 Rating, Add	1,262.70	
For Class 55 Rating, Add	2,806.56	
40 05 19 00-0534 EA 48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,180.23	2,481.23
For Class 52 Rating, Deduct	-1,916.29	
For Class 54 Rating, Add	1,306.56	
For Class 55 Rating, Add	2,904.05	
40 05 19 00-0535 EA 48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,768.68	2,484.16
For Class 52 Rating, Deduct	-1,980.53	
For Class 54 Rating, Add	1,350.36	
For Class 55 Rating, Add	3,001.40	
40 05 19 00-0536 EA 48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,361.93	2,487.09
For Class 52 Rating, Deduct	-2,045.30	
For Class 54 Rating, Add	1,394.52	
For Class 55 Rating, Add	3,099.55	
40 05 19 00-0537 EA 48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,951.97	2,490.03
For Class 52 Rating, Deduct	-2,109.71	
For Class 54 Rating, Add	1,438.44	
For Class 55 Rating, Add	3,197.17	
40 05 19 00-0538 EA 48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,540.43	2,492.97
For Class 52 Rating, Deduct	-2,173.95	
For Class 54 Rating, Add	1,482.24	
For Class 55 Rating, Add	3,294.53	
40 05 19 00-0539 EA 48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,133.68	2,495.90
For Class 52 Rating, Deduct	-2,238.72	
For Class 54 Rating, Add	1,526.40	
For Class 55 Rating, Add	3,392.68	
40 05 19 00-0540 EA 48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,722.93	2,498.84
For Class 52 Rating, Deduct	-2,303.05	
For Class 54 Rating, Add	1,570.26	
For Class 55 Rating, Add	3,490.16	
40 05 19 00-0541 EA 48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,311.37	2,501.78
For Class 52 Rating, Deduct	-2,367.29	
For Class 54 Rating, Add	1,614.06	
For Class 55 Rating, Add	3,587.52	
40 05 19 00-0542 EA 48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,904.62	2,504.71
For Class 52 Rating, Deduct	-2,432.06	
For Class 54 Rating, Add	1,658.22	
For Class 55 Rating, Add	3,685.67	
40 05 19 00-0543 EA 48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,493.87	2,507.65
For Class 52 Rating, Deduct	-2,496.38	
For Class 54 Rating, Add	1,702.08	
For Class 55 Rating, Add	3,783.16	
40 05 19 00-0544 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,011.13	2,510.59
For Class 52 Rating, Deduct	-2,552.79	
For Class 54 Rating, Add	1,740.54	
For Class 55 Rating, Add	3,868.64	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0545	EA		48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,676.37	2,513.52
			For Class 52 Rating, Deduct	-2,625.48	
			For Class 54 Rating, Add	1,790.10	
			For Class 55 Rating, Add	3,978.80	
40 05 19 00-0546	EA		48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,264.82	2,516.46
			For Class 52 Rating, Deduct	-2,689.72	
			For Class 54 Rating, Add	1,833.90	
			For Class 55 Rating, Add	4,076.15	
40 05 19 00-0547	EA		48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,858.87	2,519.40
			For Class 52 Rating, Deduct	-2,754.58	
			For Class 54 Rating, Add	1,878.12	
			For Class 55 Rating, Add	4,174.43	
40 05 19 00-0548	EA		48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,447.32	2,522.33
			For Class 52 Rating, Deduct	-2,818.82	
			For Class 54 Rating, Add	1,921.92	
			For Class 55 Rating, Add	4,271.79	
40 05 19 00-0549	EA		48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,035.76	2,525.27
			For Class 52 Rating, Deduct	-2,883.06	
			For Class 54 Rating, Add	1,965.72	
			For Class 55 Rating, Add	4,369.14	
40 05 19 00-0550	EA		48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,629.81	2,528.21
			For Class 52 Rating, Deduct	-2,947.91	
			For Class 54 Rating, Add	2,009.94	
			For Class 55 Rating, Add	4,467.43	
40 05 19 00-0551	EA		48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,218.27	2,531.15
			For Class 52 Rating, Deduct	-3,012.15	
			For Class 54 Rating, Add	2,053.74	
			For Class 55 Rating, Add	4,564.78	
40 05 19 00-0552	EA		48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,807.52	2,534.08
			For Class 52 Rating, Deduct	-3,076.48	
			For Class 54 Rating, Add	2,097.60	
			For Class 55 Rating, Add	4,662.27	
40 05 19 00-0553	EA		48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,400.76	2,537.02
			For Class 52 Rating, Deduct	-3,141.25	
			For Class 54 Rating, Add	2,141.76	
			For Class 55 Rating, Add	4,760.42	
40 05 19 00-0554			Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0001)		
40 05 19 00-0555			4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0556	EA		4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	339.59	134.37
			For Class 52 Rating, Deduct	-14.96	
			For Class 54 Rating, Add	10.20	
			For Class 55 Rating, Add	22.67	
40 05 19 00-0557	EA		4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	363.95	136.72
			For Class 52 Rating, Deduct	-17.25	
			For Class 54 Rating, Add	11.76	
			For Class 55 Rating, Add	26.14	
40 05 19 00-0558	EA		4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	388.31	139.06
			For Class 52 Rating, Deduct	-19.54	
			For Class 54 Rating, Add	13.32	
			For Class 55 Rating, Add	29.61	
40 05 19 00-0559	EA		4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	412.67	141.42
			For Class 52 Rating, Deduct	-21.82	
			For Class 54 Rating, Add	14.88	
			For Class 55 Rating, Add	33.07	
40 05 19 00-0560	EA		4" Flanged x Grooved (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	437.03	143.76
			For Class 52 Rating, Deduct	-24.11	
			For Class 54 Rating, Add	16.44	
			For Class 55 Rating, Add	36.54	
40 05 19 00-0561	EA		4" Flanged x Grooved (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	461.39	146.12
			For Class 52 Rating, Deduct	-26.40	
			For Class 54 Rating, Add	18.00	
			For Class 55 Rating, Add	40.01	
40 05 19 00-0562	EA		4" Flanged x Grooved (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	485.75	148.47
			For Class 52 Rating, Deduct	-28.69	
			For Class 54 Rating, Add	19.56	
			For Class 55 Rating, Add	43.48	
40 05 19 00-0563	EA		4" Flanged x Grooved (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	510.10	150.81
			For Class 52 Rating, Deduct	-30.98	
			For Class 54 Rating, Add	21.12	
			For Class 55 Rating, Add	46.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0564	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	534.46	153.17
			For Class 52 Rating, Deduct	-33.26	
			For Class 54 Rating, Add	22.68	
			For Class 55 Rating, Add	50.41	
40 05 19 00-0565	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	558.82	155.51
			For Class 52 Rating, Deduct	-35.55	
			For Class 54 Rating, Add	24.24	
			For Class 55 Rating, Add	53.88	
40 05 19 00-0566	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	583.18	157.86
			For Class 52 Rating, Deduct	-37.84	
			For Class 54 Rating, Add	25.80	
			For Class 55 Rating, Add	57.34	
40 05 19 00-0567	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	607.54	160.21
			For Class 52 Rating, Deduct	-40.13	
			For Class 54 Rating, Add	27.36	
			For Class 55 Rating, Add	60.81	
40 05 19 00-0568	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	631.90	162.56
			For Class 52 Rating, Deduct	-42.42	
			For Class 54 Rating, Add	28.92	
			For Class 55 Rating, Add	64.28	
40 05 19 00-0569	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	656.26	164.90
			For Class 52 Rating, Deduct	-44.70	
			For Class 54 Rating, Add	30.48	
			For Class 55 Rating, Add	67.75	
40 05 19 00-0570	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	680.62	167.26
			For Class 52 Rating, Deduct	-46.99	
			For Class 54 Rating, Add	32.04	
			For Class 55 Rating, Add	71.21	
40 05 19 00-0571	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	704.98	169.60
			For Class 52 Rating, Deduct	-49.28	
			For Class 54 Rating, Add	33.60	
			For Class 55 Rating, Add	74.68	
40 05 19 00-0572	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	729.34	171.96
			For Class 52 Rating, Deduct	-51.57	
			For Class 54 Rating, Add	35.16	
			For Class 55 Rating, Add	78.15	
40 05 19 00-0573	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	753.70	174.30
			For Class 52 Rating, Deduct	-53.86	
			For Class 54 Rating, Add	36.72	
			For Class 55 Rating, Add	81.62	
40 05 19 00-0574	EA		4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	778.06	176.65
			For Class 52 Rating, Deduct	-56.14	
			For Class 54 Rating, Add	38.28	
			For Class 55 Rating, Add	85.08	
40 05 19 00-0575	EA		4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	802.42	179.01
			For Class 52 Rating, Deduct	-58.43	
			For Class 54 Rating, Add	39.84	
			For Class 55 Rating, Add	88.55	
40 05 19 00-0576	EA		4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	826.77	181.35
			For Class 52 Rating, Deduct	-60.72	
			For Class 54 Rating, Add	41.40	
			For Class 55 Rating, Add	92.02	
40 05 19 00-0577	EA		4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	851.13	183.70
			For Class 52 Rating, Deduct	-63.01	
			For Class 54 Rating, Add	42.96	
			For Class 55 Rating, Add	95.49	
40 05 19 00-0578	EA		4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	875.49	186.05
			For Class 52 Rating, Deduct	-65.30	
			For Class 54 Rating, Add	44.52	
			For Class 55 Rating, Add	98.95	
40 05 19 00-0579	EA		4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	899.85	188.40
			For Class 52 Rating, Deduct	-67.58	
			For Class 54 Rating, Add	46.08	
			For Class 55 Rating, Add	102.42	
40 05 19 00-0580	EA		4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	924.21	190.75
			For Class 52 Rating, Deduct	-69.87	
			For Class 54 Rating, Add	47.64	
			For Class 55 Rating, Add	105.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0581	EA		4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	948.57	193.10
			For Class 52 Rating, Deduct	-72.16	
			For Class 54 Rating, Add	49.20	
			For Class 55 Rating, Add	109.36	
40 05 19 00-0582	EA		4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	972.93	195.44
			For Class 52 Rating, Deduct	-74.45	
			For Class 54 Rating, Add	50.76	
			For Class 55 Rating, Add	112.82	
40 05 19 00-0583	EA		4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	997.29	197.80
			For Class 52 Rating, Deduct	-76.74	
			For Class 54 Rating, Add	52.32	
			For Class 55 Rating, Add	116.29	
40 05 19 00-0584	EA		4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,021.65	200.14
			For Class 52 Rating, Deduct	-79.02	
			For Class 54 Rating, Add	53.88	
			For Class 55 Rating, Add	119.76	
40 05 19 00-0585	EA		4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,046.01	202.49
			For Class 52 Rating, Deduct	-81.31	
			For Class 54 Rating, Add	55.44	
			For Class 55 Rating, Add	123.22	
40 05 19 00-0586	EA		4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,070.37	204.84
			For Class 52 Rating, Deduct	-83.60	
			For Class 54 Rating, Add	57.00	
			For Class 55 Rating, Add	126.69	
40 05 19 00-0587	EA		4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,094.73	207.19
			For Class 52 Rating, Deduct	-85.89	
			For Class 54 Rating, Add	58.56	
			For Class 55 Rating, Add	130.16	
40 05 19 00-0588	EA		4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,119.09	209.55
			For Class 52 Rating, Deduct	-88.18	
			For Class 54 Rating, Add	60.12	
			For Class 55 Rating, Add	133.63	
40 05 19 00-0589	EA		4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,143.44	211.89
			For Class 52 Rating, Deduct	-90.46	
			For Class 54 Rating, Add	61.68	
			For Class 55 Rating, Add	137.09	
40 05 19 00-0590	EA		4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,167.80	214.24
			For Class 52 Rating, Deduct	-92.75	
			For Class 54 Rating, Add	63.24	
			For Class 55 Rating, Add	140.56	
40 05 19 00-0591	EA		4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,192.16	216.59
			For Class 52 Rating, Deduct	-95.04	
			For Class 54 Rating, Add	64.80	
			For Class 55 Rating, Add	144.03	
40 05 19 00-0592	EA		4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,216.52	218.94
			For Class 52 Rating, Deduct	-97.33	
			For Class 54 Rating, Add	66.36	
			For Class 55 Rating, Add	147.50	
40 05 19 00-0593	EA		4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,240.88	221.28
			For Class 52 Rating, Deduct	-99.62	
			For Class 54 Rating, Add	67.92	
			For Class 55 Rating, Add	150.96	
40 05 19 00-0594	EA		4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,265.24	223.64
			For Class 52 Rating, Deduct	-101.90	
			For Class 54 Rating, Add	69.48	
			For Class 55 Rating, Add	154.43	
40 05 19 00-0595			6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0596	EA		6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	425.06	169.14
			For Class 52 Rating, Deduct	-18.57	
			For Class 54 Rating, Add	12.66	
			For Class 55 Rating, Add	28.14	
40 05 19 00-0597	EA		6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	454.22	171.48
			For Class 52 Rating, Deduct	-21.38	
			For Class 54 Rating, Add	14.58	
			For Class 55 Rating, Add	32.41	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0598	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	483.38	173.83
			For Class 52 Rating, Deduct	-24.20	
			For Class 54 Rating, Add	16.50	
			For Class 55 Rating, Add	36.67	
40 05 19 00-0599	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	512.54	176.18
			For Class 52 Rating, Deduct	-27.02	
			For Class 54 Rating, Add	18.42	
			For Class 55 Rating, Add	40.94	
40 05 19 00-0600	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	541.70	178.53
			For Class 52 Rating, Deduct	-29.83	
			For Class 54 Rating, Add	20.34	
			For Class 55 Rating, Add	45.21	
40 05 19 00-0601	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	570.86	180.88
			For Class 52 Rating, Deduct	-32.65	
			For Class 54 Rating, Add	22.26	
			For Class 55 Rating, Add	49.48	
40 05 19 00-0602	EA		6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	600.02	183.23
			For Class 52 Rating, Deduct	-35.46	
			For Class 54 Rating, Add	24.18	
			For Class 55 Rating, Add	53.74	
40 05 19 00-0603	EA		6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	629.18	185.58
			For Class 52 Rating, Deduct	-38.28	
			For Class 54 Rating, Add	26.10	
			For Class 55 Rating, Add	58.01	
40 05 19 00-0604	EA		6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	658.34	187.93
			For Class 52 Rating, Deduct	-41.10	
			For Class 54 Rating, Add	28.02	
			For Class 55 Rating, Add	62.28	
40 05 19 00-0605	EA		6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	687.50	190.28
			For Class 52 Rating, Deduct	-43.91	
			For Class 54 Rating, Add	29.94	
			For Class 55 Rating, Add	66.55	
40 05 19 00-0606	EA		6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	716.66	192.62
			For Class 52 Rating, Deduct	-46.73	
			For Class 54 Rating, Add	31.86	
			For Class 55 Rating, Add	70.81	
40 05 19 00-0607	EA		6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	745.82	194.98
			For Class 52 Rating, Deduct	-49.54	
			For Class 54 Rating, Add	33.78	
			For Class 55 Rating, Add	75.08	
40 05 19 00-0608	EA		6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	774.98	197.32
			For Class 52 Rating, Deduct	-52.36	
			For Class 54 Rating, Add	35.70	
			For Class 55 Rating, Add	79.35	
40 05 19 00-0609	EA		6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	804.13	199.67
			For Class 52 Rating, Deduct	-55.18	
			For Class 54 Rating, Add	37.62	
			For Class 55 Rating, Add	83.62	
40 05 19 00-0610	EA		6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	833.29	202.02
			For Class 52 Rating, Deduct	-57.99	
			For Class 54 Rating, Add	39.54	
			For Class 55 Rating, Add	87.88	
40 05 19 00-0611	EA		6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	862.45	204.37
			For Class 52 Rating, Deduct	-60.81	
			For Class 54 Rating, Add	41.46	
			For Class 55 Rating, Add	92.15	
40 05 19 00-0612	EA		6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	891.61	206.71
			For Class 52 Rating, Deduct	-63.62	
			For Class 54 Rating, Add	43.38	
			For Class 55 Rating, Add	96.42	
40 05 19 00-0613	EA		6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	920.77	209.07
			For Class 52 Rating, Deduct	-66.44	
			For Class 54 Rating, Add	45.30	
			For Class 55 Rating, Add	100.69	
40 05 19 00-0614	EA		6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	949.93	211.42
			For Class 52 Rating, Deduct	-69.26	
			For Class 54 Rating, Add	47.22	
			For Class 55 Rating, Add	104.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0615	EA		6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	979.09	213.77
			For Class 52 Rating, Deduct	-72.07	
			For Class 54 Rating, Add	49.14	
			For Class 55 Rating, Add	109.22	
40 05 19 00-0616	EA		6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,008.25	216.12
			For Class 52 Rating, Deduct	-74.89	
			For Class 54 Rating, Add	51.06	
			For Class 55 Rating, Add	113.49	
40 05 19 00-0617	EA		6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,037.41	218.46
			For Class 52 Rating, Deduct	-77.70	
			For Class 54 Rating, Add	52.98	
			For Class 55 Rating, Add	117.76	
40 05 19 00-0618	EA		6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,066.57	220.82
			For Class 52 Rating, Deduct	-80.52	
			For Class 54 Rating, Add	54.90	
			For Class 55 Rating, Add	122.02	
40 05 19 00-0619	EA		6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,095.73	223.16
			For Class 52 Rating, Deduct	-83.34	
			For Class 54 Rating, Add	56.82	
			For Class 55 Rating, Add	126.29	
40 05 19 00-0620	EA		6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,124.89	225.51
			For Class 52 Rating, Deduct	-86.15	
			For Class 54 Rating, Add	58.74	
			For Class 55 Rating, Add	130.56	
40 05 19 00-0621	EA		6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,154.05	227.86
			For Class 52 Rating, Deduct	-88.97	
			For Class 54 Rating, Add	60.66	
			For Class 55 Rating, Add	134.83	
40 05 19 00-0622	EA		6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,183.20	230.21
			For Class 52 Rating, Deduct	-91.78	
			For Class 54 Rating, Add	62.58	
			For Class 55 Rating, Add	139.09	
40 05 19 00-0623	EA		6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,212.36	232.56
			For Class 52 Rating, Deduct	-94.60	
			For Class 54 Rating, Add	64.50	
			For Class 55 Rating, Add	143.36	
40 05 19 00-0624	EA		6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,241.52	234.91
			For Class 52 Rating, Deduct	-97.42	
			For Class 54 Rating, Add	66.42	
			For Class 55 Rating, Add	147.63	
40 05 19 00-0625	EA		6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,270.68	237.26
			For Class 52 Rating, Deduct	-100.23	
			For Class 54 Rating, Add	68.34	
			For Class 55 Rating, Add	151.90	
40 05 19 00-0626	EA		6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,299.84	239.61
			For Class 52 Rating, Deduct	-103.05	
			For Class 54 Rating, Add	70.26	
			For Class 55 Rating, Add	156.16	
40 05 19 00-0627	EA		6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,329.00	241.96
			For Class 52 Rating, Deduct	-105.86	
			For Class 54 Rating, Add	72.18	
			For Class 55 Rating, Add	160.43	
40 05 19 00-0628	EA		6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,358.16	244.30
			For Class 52 Rating, Deduct	-108.68	
			For Class 54 Rating, Add	74.10	
			For Class 55 Rating, Add	164.70	
40 05 19 00-0629	EA		6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,387.32	246.66
			For Class 52 Rating, Deduct	-111.50	
			For Class 54 Rating, Add	76.02	
			For Class 55 Rating, Add	168.97	
40 05 19 00-0630	EA		6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,416.48	249.00
			For Class 52 Rating, Deduct	-114.31	
			For Class 54 Rating, Add	77.94	
			For Class 55 Rating, Add	173.23	
40 05 19 00-0631	EA		6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,445.64	251.36
			For Class 52 Rating, Deduct	-117.13	
			For Class 54 Rating, Add	79.86	
			For Class 55 Rating, Add	177.50	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0632	EA		6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,474.80	253.70
			For Class 52 Rating, Deduct	-119.94	
			For Class 54 Rating, Add	81.78	
			For Class 55 Rating, Add	181.77	
40 05 19 00-0633	EA		6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,503.96	256.05
			For Class 52 Rating, Deduct	-122.76	
			For Class 54 Rating, Add	83.70	
			For Class 55 Rating, Add	186.04	
40 05 19 00-0634	EA		6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,533.12	258.40
			For Class 52 Rating, Deduct	-125.58	
			For Class 54 Rating, Add	85.62	
			For Class 55 Rating, Add	190.30	
40 05 19 00-0635 8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0636	EA		8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	573.85	216.12
			For Class 52 Rating, Deduct	-27.10	
			For Class 54 Rating, Add	18.48	
			For Class 55 Rating, Add	41.07	
40 05 19 00-0637	EA		8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	612.61	218.46
			For Class 52 Rating, Deduct	-30.98	
			For Class 54 Rating, Add	21.12	
			For Class 55 Rating, Add	46.94	
40 05 19 00-0638	EA		8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	651.37	220.82
			For Class 52 Rating, Deduct	-34.85	
			For Class 54 Rating, Add	23.76	
			For Class 55 Rating, Add	52.81	
40 05 19 00-0639	EA		8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	690.13	223.16
			For Class 52 Rating, Deduct	-38.72	
			For Class 54 Rating, Add	26.40	
			For Class 55 Rating, Add	58.68	
40 05 19 00-0640	EA		8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	728.89	225.51
			For Class 52 Rating, Deduct	-42.59	
			For Class 54 Rating, Add	29.04	
			For Class 55 Rating, Add	64.55	
40 05 19 00-0641	EA		8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	767.65	227.86
			For Class 52 Rating, Deduct	-46.46	
			For Class 54 Rating, Add	31.68	
			For Class 55 Rating, Add	70.41	
40 05 19 00-0642	EA		8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	806.40	230.21
			For Class 52 Rating, Deduct	-50.34	
			For Class 54 Rating, Add	34.32	
			For Class 55 Rating, Add	76.28	
40 05 19 00-0643	EA		8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	845.16	232.56
			For Class 52 Rating, Deduct	-54.21	
			For Class 54 Rating, Add	36.96	
			For Class 55 Rating, Add	82.15	
40 05 19 00-0644	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	883.92	234.91
			For Class 52 Rating, Deduct	-58.08	
			For Class 54 Rating, Add	39.60	
			For Class 55 Rating, Add	88.02	
40 05 19 00-0645	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	922.68	237.26
			For Class 52 Rating, Deduct	-61.95	
			For Class 54 Rating, Add	42.24	
			For Class 55 Rating, Add	93.89	
40 05 19 00-0646	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	961.44	239.61
			For Class 52 Rating, Deduct	-65.82	
			For Class 54 Rating, Add	44.88	
			For Class 55 Rating, Add	99.75	
40 05 19 00-0647	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,000.20	241.96
			For Class 52 Rating, Deduct	-69.70	
			For Class 54 Rating, Add	47.52	
			For Class 55 Rating, Add	105.62	
40 05 19 00-0648	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,038.96	244.30
			For Class 52 Rating, Deduct	-73.57	
			For Class 54 Rating, Add	50.16	
			For Class 55 Rating, Add	111.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0649	EA		8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,077.72	246.66
			For Class 52 Rating, Deduct	-77.44	
			For Class 54 Rating, Add	52.80	
			For Class 55 Rating, Add	117.36	
40 05 19 00-0650	EA		8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,116.48	249.00
			For Class 52 Rating, Deduct	-81.31	
			For Class 54 Rating, Add	55.44	
			For Class 55 Rating, Add	123.22	
40 05 19 00-0651	EA		8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,155.24	251.36
			For Class 52 Rating, Deduct	-85.18	
			For Class 54 Rating, Add	58.08	
			For Class 55 Rating, Add	129.09	
40 05 19 00-0652	EA		8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,194.00	253.70
			For Class 52 Rating, Deduct	-89.06	
			For Class 54 Rating, Add	60.72	
			For Class 55 Rating, Add	134.96	
40 05 19 00-0653	EA		8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,232.76	256.05
			For Class 52 Rating, Deduct	-92.93	
			For Class 54 Rating, Add	63.36	
			For Class 55 Rating, Add	140.83	
40 05 19 00-0654	EA		8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,271.52	258.40
			For Class 52 Rating, Deduct	-96.80	
			For Class 54 Rating, Add	66.00	
			For Class 55 Rating, Add	146.70	
40 05 19 00-0655	EA		8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,310.27	260.75
			For Class 52 Rating, Deduct	-100.67	
			For Class 54 Rating, Add	68.64	
			For Class 55 Rating, Add	152.56	
40 05 19 00-0656	EA		8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,349.03	263.09
			For Class 52 Rating, Deduct	-104.54	
			For Class 54 Rating, Add	71.28	
			For Class 55 Rating, Add	158.43	
40 05 19 00-0657	EA		8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,387.79	265.45
			For Class 52 Rating, Deduct	-108.42	
			For Class 54 Rating, Add	73.92	
			For Class 55 Rating, Add	164.30	
40 05 19 00-0658	EA		8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,426.55	267.80
			For Class 52 Rating, Deduct	-112.29	
			For Class 54 Rating, Add	76.56	
			For Class 55 Rating, Add	170.17	
40 05 19 00-0659	EA		8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,465.31	270.14
			For Class 52 Rating, Deduct	-116.16	
			For Class 54 Rating, Add	79.20	
			For Class 55 Rating, Add	176.04	
40 05 19 00-0660	EA		8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,504.07	272.50
			For Class 52 Rating, Deduct	-120.03	
			For Class 54 Rating, Add	81.84	
			For Class 55 Rating, Add	181.90	
40 05 19 00-0661	EA		8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,542.83	274.84
			For Class 52 Rating, Deduct	-123.90	
			For Class 54 Rating, Add	84.48	
			For Class 55 Rating, Add	187.77	
40 05 19 00-0662	EA		8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,581.59	277.20
			For Class 52 Rating, Deduct	-127.78	
			For Class 54 Rating, Add	87.12	
			For Class 55 Rating, Add	193.64	
40 05 19 00-0663	EA		8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,620.35	279.54
			For Class 52 Rating, Deduct	-131.65	
			For Class 54 Rating, Add	89.76	
			For Class 55 Rating, Add	199.51	
40 05 19 00-0664	EA		8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,659.11	281.89
			For Class 52 Rating, Deduct	-135.52	
			For Class 54 Rating, Add	92.40	
			For Class 55 Rating, Add	205.37	
40 05 19 00-0665	EA		8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,697.87	284.24
			For Class 52 Rating, Deduct	-139.39	
			For Class 54 Rating, Add	95.04	
			For Class 55 Rating, Add	211.24	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0666	EA		8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,736.63	286.59
			For Class 52 Rating, Deduct	-143.26	
			For Class 54 Rating, Add	97.68	
			For Class 55 Rating, Add	217.11	
40 05 19 00-0667	EA		8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,775.39	288.93
			For Class 52 Rating, Deduct	-147.14	
			For Class 54 Rating, Add	100.32	
			For Class 55 Rating, Add	222.98	
40 05 19 00-0668	EA		8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,814.14	291.29
			For Class 52 Rating, Deduct	-151.01	
			For Class 54 Rating, Add	102.96	
			For Class 55 Rating, Add	228.85	
40 05 19 00-0669	EA		8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,852.90	293.63
			For Class 52 Rating, Deduct	-154.88	
			For Class 54 Rating, Add	105.60	
			For Class 55 Rating, Add	234.71	
40 05 19 00-0670	EA		8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,891.66	295.99
			For Class 52 Rating, Deduct	-158.75	
			For Class 54 Rating, Add	108.24	
			For Class 55 Rating, Add	240.58	
40 05 19 00-0671	EA		8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,930.42	298.34
			For Class 52 Rating, Deduct	-162.62	
			For Class 54 Rating, Add	110.88	
			For Class 55 Rating, Add	246.45	
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,969.18	300.68
			For Class 52 Rating, Deduct	-166.50	
			For Class 54 Rating, Add	113.52	
			For Class 55 Rating, Add	252.32	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,007.94	303.04
			For Class 52 Rating, Deduct	-170.37	
			For Class 54 Rating, Add	116.16	
			For Class 55 Rating, Add	258.18	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,046.70	305.38
			For Class 52 Rating, Deduct	-174.24	
			For Class 54 Rating, Add	118.80	
			For Class 55 Rating, Add	264.05	
40 05 19 00-0675			10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	713.83	263.09
			For Class 52 Rating, Deduct	-34.67	
			For Class 54 Rating, Add	23.64	
			For Class 55 Rating, Add	52.54	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	763.79	265.45
			For Class 52 Rating, Deduct	-39.78	
			For Class 54 Rating, Add	27.12	
			For Class 55 Rating, Add	60.28	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	813.75	267.80
			For Class 52 Rating, Deduct	-44.88	
			For Class 54 Rating, Add	30.60	
			For Class 55 Rating, Add	68.01	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	863.71	270.14
			For Class 52 Rating, Deduct	-49.98	
			For Class 54 Rating, Add	34.08	
			For Class 55 Rating, Add	75.75	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	913.67	272.50
			For Class 52 Rating, Deduct	-55.09	
			For Class 54 Rating, Add	37.56	
			For Class 55 Rating, Add	83.48	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	963.63	274.84
			For Class 52 Rating, Deduct	-60.19	
			For Class 54 Rating, Add	41.04	
			For Class 55 Rating, Add	91.22	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,013.59	277.20
			For Class 52 Rating, Deduct	-65.30	
			For Class 54 Rating, Add	44.52	
			For Class 55 Rating, Add	98.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0683	EA	10"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,063.55	279.54
			For Class 52 Rating, Deduct	-70.40	
			For Class 54 Rating, Add	48.00	
			For Class 55 Rating, Add	106.69	
40 05 19 00-0684	EA	10"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,113.51	281.89
			For Class 52 Rating, Deduct	-75.50	
			For Class 54 Rating, Add	51.48	
			For Class 55 Rating, Add	114.42	
40 05 19 00-0685	EA	10"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,163.47	284.24
			For Class 52 Rating, Deduct	-80.61	
			For Class 54 Rating, Add	54.96	
			For Class 55 Rating, Add	122.16	
40 05 19 00-0686	EA	10"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,213.43	286.59
			For Class 52 Rating, Deduct	-85.71	
			For Class 54 Rating, Add	58.44	
			For Class 55 Rating, Add	129.89	
40 05 19 00-0687	EA	10"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,263.39	288.93
			For Class 52 Rating, Deduct	-90.82	
			For Class 54 Rating, Add	61.92	
			For Class 55 Rating, Add	137.63	
40 05 19 00-0688	EA	10"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,313.34	291.29
			For Class 52 Rating, Deduct	-95.92	
			For Class 54 Rating, Add	65.40	
			For Class 55 Rating, Add	145.36	
40 05 19 00-0689	EA	10"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,363.30	293.63
			For Class 52 Rating, Deduct	-101.02	
			For Class 54 Rating, Add	68.88	
			For Class 55 Rating, Add	153.10	
40 05 19 00-0690	EA	10"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,413.26	295.99
			For Class 52 Rating, Deduct	-106.13	
			For Class 54 Rating, Add	72.36	
			For Class 55 Rating, Add	160.83	
40 05 19 00-0691	EA	10"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,463.22	298.34
			For Class 52 Rating, Deduct	-111.23	
			For Class 54 Rating, Add	75.84	
			For Class 55 Rating, Add	168.57	
40 05 19 00-0692	EA	10"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,513.18	300.68
			For Class 52 Rating, Deduct	-116.34	
			For Class 54 Rating, Add	79.32	
			For Class 55 Rating, Add	176.30	
40 05 19 00-0693	EA	10"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,563.14	303.04
			For Class 52 Rating, Deduct	-121.44	
			For Class 54 Rating, Add	82.80	
			For Class 55 Rating, Add	184.04	
40 05 19 00-0694	EA	10"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,613.10	305.38
			For Class 52 Rating, Deduct	-126.54	
			For Class 54 Rating, Add	86.28	
			For Class 55 Rating, Add	191.77	
40 05 19 00-0695	EA	10"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,663.06	307.73
			For Class 52 Rating, Deduct	-131.65	
			For Class 54 Rating, Add	89.76	
			For Class 55 Rating, Add	199.51	
40 05 19 00-0696	EA	10"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,713.02	310.08
			For Class 52 Rating, Deduct	-136.75	
			For Class 54 Rating, Add	93.24	
			For Class 55 Rating, Add	207.24	
40 05 19 00-0697	EA	10"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,762.98	312.43
			For Class 52 Rating, Deduct	-141.86	
			For Class 54 Rating, Add	96.72	
			For Class 55 Rating, Add	214.98	
40 05 19 00-0698	EA	10"	Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,812.94	314.77
			For Class 52 Rating, Deduct	-146.96	
			For Class 54 Rating, Add	100.20	
			For Class 55 Rating, Add	222.71	
40 05 19 00-0699	EA	10"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,862.90	317.13
			For Class 52 Rating, Deduct	-152.06	
			For Class 54 Rating, Add	103.68	
			For Class 55 Rating, Add	230.45	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,912.86	319.47
		For Class 52 Rating, Deduct	-157.17	
		For Class 54 Rating, Add	107.16	
		For Class 55 Rating, Add	238.18	
40 05 19 00-0701	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,962.81	321.83
		For Class 52 Rating, Deduct	-162.27	
		For Class 54 Rating, Add	110.64	
		For Class 55 Rating, Add	245.92	
40 05 19 00-0702	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,012.77	324.17
		For Class 52 Rating, Deduct	-167.38	
		For Class 54 Rating, Add	114.12	
		For Class 55 Rating, Add	253.65	
40 05 19 00-0703	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,062.73	326.52
		For Class 52 Rating, Deduct	-172.48	
		For Class 54 Rating, Add	117.60	
		For Class 55 Rating, Add	261.39	
40 05 19 00-0704	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,112.69	328.88
		For Class 52 Rating, Deduct	-177.58	
		For Class 54 Rating, Add	121.08	
		For Class 55 Rating, Add	269.12	
40 05 19 00-0705	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,162.65	331.22
		For Class 52 Rating, Deduct	-182.69	
		For Class 54 Rating, Add	124.56	
		For Class 55 Rating, Add	276.86	
40 05 19 00-0706	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,212.61	333.57
		For Class 52 Rating, Deduct	-187.79	
		For Class 54 Rating, Add	128.04	
		For Class 55 Rating, Add	284.59	
40 05 19 00-0707	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,262.57	335.92
		For Class 52 Rating, Deduct	-192.90	
		For Class 54 Rating, Add	131.52	
		For Class 55 Rating, Add	292.33	
40 05 19 00-0708	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,312.53	338.27
		For Class 52 Rating, Deduct	-198.00	
		For Class 54 Rating, Add	135.00	
		For Class 55 Rating, Add	300.06	
40 05 19 00-0709	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,362.49	340.62
		For Class 52 Rating, Deduct	-203.10	
		For Class 54 Rating, Add	138.48	
		For Class 55 Rating, Add	307.79	
40 05 19 00-0710	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,412.45	342.97
		For Class 52 Rating, Deduct	-208.21	
		For Class 54 Rating, Add	141.96	
		For Class 55 Rating, Add	315.53	
40 05 19 00-0711	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,462.41	345.31
		For Class 52 Rating, Deduct	-213.31	
		For Class 54 Rating, Add	145.44	
		For Class 55 Rating, Add	323.26	
40 05 19 00-0712	EA	10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,512.37	347.67
		For Class 52 Rating, Deduct	-218.42	
		For Class 54 Rating, Add	148.92	
		For Class 55 Rating, Add	331.00	
40 05 19 00-0713	EA	10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,562.33	350.01
		For Class 52 Rating, Deduct	-223.52	
		For Class 54 Rating, Add	152.40	
		For Class 55 Rating, Add	338.73	
40 05 19 00-0714	EA	10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,612.28	352.36
		For Class 52 Rating, Deduct	-228.62	
		For Class 54 Rating, Add	155.88	
		For Class 55 Rating, Add	346.47	
40 05 19 00-0715		12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
		(40 05 19 00-0554)		
40 05 19 00-0716	EA	12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	915.89	328.88
		For Class 52 Rating, Deduct	-45.94	
		For Class 54 Rating, Add	31.32	
		For Class 55 Rating, Add	69.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0717	EA	12"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	977.85 -52.36 35.70 79.35	331.22
40 05 19 00-0718	EA	12"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,039.81 -58.78 40.08 89.08	333.57
40 05 19 00-0719	EA	12"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,101.77 -65.21 44.46 98.82	335.92
40 05 19 00-0720	EA	12"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,163.73 -71.63 48.84 108.56	338.27
40 05 19 00-0721	EA	12"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,225.69 -78.06 53.22 118.29	340.62
40 05 19 00-0722	EA	12"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,287.65 -84.48 57.60 128.03	342.97
40 05 19 00-0723	EA	12"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,349.61 -90.90 61.98 137.76	345.31
40 05 19 00-0724	EA	12"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,411.57 -97.33 66.36 147.50	347.67
40 05 19 00-0725	EA	12"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,473.53 -103.75 70.74 157.23	350.01
40 05 19 00-0726	EA	12"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,535.48 -110.18 75.12 166.97	352.36
40 05 19 00-0727	EA	12"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,597.44 -116.60 79.50 176.70	354.71
40 05 19 00-0728	EA	12"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,659.40 -123.02 83.88 186.44	357.06
40 05 19 00-0729	EA	12"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,721.36 -129.45 88.26 196.17	359.41
40 05 19 00-0730	EA	12"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,783.32 -135.87 92.64 205.91	361.76
40 05 19 00-0731	EA	12"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,845.28 -142.30 97.02 215.64	364.11
40 05 19 00-0732	EA	12"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,907.24 -148.72 101.40 225.38	366.46
40 05 19 00-0733	EA	12"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,969.20 -155.14 105.78 235.11	368.81

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0734	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,031.16	371.15
		For Class 52 Rating, Deduct		-161.57	
		For Class 54 Rating, Add		110.16	
		For Class 55 Rating, Add		244.85	
40 05 19 00-0735	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,093.12	373.51
		For Class 52 Rating, Deduct		-167.99	
		For Class 54 Rating, Add		114.54	
		For Class 55 Rating, Add		254.58	
40 05 19 00-0736	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,155.08	375.85
		For Class 52 Rating, Deduct		-174.42	
		For Class 54 Rating, Add		118.92	
		For Class 55 Rating, Add		264.32	
40 05 19 00-0737	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,217.04	378.20
		For Class 52 Rating, Deduct		-180.84	
		For Class 54 Rating, Add		123.30	
		For Class 55 Rating, Add		274.05	
40 05 19 00-0738	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,279.00	380.55
		For Class 52 Rating, Deduct		-187.26	
		For Class 54 Rating, Add		127.68	
		For Class 55 Rating, Add		283.79	
40 05 19 00-0739	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,340.95	382.90
		For Class 52 Rating, Deduct		-193.69	
		For Class 54 Rating, Add		132.06	
		For Class 55 Rating, Add		293.53	
40 05 19 00-0740	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,402.91	385.26
		For Class 52 Rating, Deduct		-200.11	
		For Class 54 Rating, Add		136.44	
		For Class 55 Rating, Add		303.26	
40 05 19 00-0741	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,464.87	387.60
		For Class 52 Rating, Deduct		-206.54	
		For Class 54 Rating, Add		140.82	
		For Class 55 Rating, Add		313.00	
40 05 19 00-0742	EA	12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,526.83	389.95
		For Class 52 Rating, Deduct		-212.96	
		For Class 54 Rating, Add		145.20	
		For Class 55 Rating, Add		322.73	
40 05 19 00-0743	EA	12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,588.79	392.30
		For Class 52 Rating, Deduct		-219.38	
		For Class 54 Rating, Add		149.58	
		For Class 55 Rating, Add		332.47	
40 05 19 00-0744	EA	12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,650.75	394.65
		For Class 52 Rating, Deduct		-225.81	
		For Class 54 Rating, Add		153.96	
		For Class 55 Rating, Add		342.20	
40 05 19 00-0745	EA	12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,712.71	396.99
		For Class 52 Rating, Deduct		-232.23	
		For Class 54 Rating, Add		158.34	
		For Class 55 Rating, Add		351.94	
40 05 19 00-0746	EA	12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,774.67	399.35
		For Class 52 Rating, Deduct		-238.66	
		For Class 54 Rating, Add		162.72	
		For Class 55 Rating, Add		361.67	
40 05 19 00-0747	EA	12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,836.63	401.69
		For Class 52 Rating, Deduct		-245.08	
		For Class 54 Rating, Add		167.10	
		For Class 55 Rating, Add		371.41	
40 05 19 00-0748	EA	12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,898.59	404.05
		For Class 52 Rating, Deduct		-251.50	
		For Class 54 Rating, Add		171.48	
		For Class 55 Rating, Add		381.14	
40 05 19 00-0749	EA	12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,960.55	406.39
		For Class 52 Rating, Deduct		-257.93	
		For Class 54 Rating, Add		175.86	
		For Class 55 Rating, Add		390.88	
40 05 19 00-0750	EA	12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,022.51	408.74
		For Class 52 Rating, Deduct		-264.35	
		For Class 54 Rating, Add		180.24	
		For Class 55 Rating, Add		400.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0751	EA		12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,084.47	411.09
			For Class 52 Rating, Deduct	-270.78	
			For Class 54 Rating, Add	184.62	
			For Class 55 Rating, Add	410.35	
40 05 19 00-0752	EA		12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,146.42	413.44
			For Class 52 Rating, Deduct	-277.20	
			For Class 54 Rating, Add	189.00	
			For Class 55 Rating, Add	420.08	
40 05 19 00-0753	EA		12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,208.38	415.79
			For Class 52 Rating, Deduct	-283.62	
			For Class 54 Rating, Add	193.38	
			For Class 55 Rating, Add	429.82	
40 05 19 00-0754	EA		12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,270.34	418.14
			For Class 52 Rating, Deduct	-290.05	
			For Class 54 Rating, Add	197.76	
			For Class 55 Rating, Add	439.55	
40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0756	EA		14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,221.95	394.65
			For Class 52 Rating, Deduct	-68.64	
			For Class 54 Rating, Add	46.80	
			For Class 55 Rating, Add	104.02	
40 05 19 00-0757	EA		14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,296.71	396.99
			For Class 52 Rating, Deduct	-76.47	
			For Class 54 Rating, Add	52.14	
			For Class 55 Rating, Add	115.89	
40 05 19 00-0758	EA		14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,371.47	399.35
			For Class 52 Rating, Deduct	-84.30	
			For Class 54 Rating, Add	57.48	
			For Class 55 Rating, Add	127.76	
40 05 19 00-0759	EA		14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,446.23	401.69
			For Class 52 Rating, Deduct	-92.14	
			For Class 54 Rating, Add	62.82	
			For Class 55 Rating, Add	139.63	
40 05 19 00-0760	EA		14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,520.99	404.05
			For Class 52 Rating, Deduct	-99.97	
			For Class 54 Rating, Add	68.16	
			For Class 55 Rating, Add	151.50	
40 05 19 00-0761	EA		14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,595.75	406.39
			For Class 52 Rating, Deduct	-107.80	
			For Class 54 Rating, Add	73.50	
			For Class 55 Rating, Add	163.37	
40 05 19 00-0762	EA		14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,670.51	408.74
			For Class 52 Rating, Deduct	-115.63	
			For Class 54 Rating, Add	78.84	
			For Class 55 Rating, Add	175.24	
40 05 19 00-0763	EA		14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,745.27	411.09
			For Class 52 Rating, Deduct	-123.46	
			For Class 54 Rating, Add	84.18	
			For Class 55 Rating, Add	187.10	
40 05 19 00-0764	EA		14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,820.02	413.44
			For Class 52 Rating, Deduct	-131.30	
			For Class 54 Rating, Add	89.52	
			For Class 55 Rating, Add	198.97	
40 05 19 00-0765	EA		14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,894.78	415.79
			For Class 52 Rating, Deduct	-139.13	
			For Class 54 Rating, Add	94.86	
			For Class 55 Rating, Add	210.84	
40 05 19 00-0766	EA		14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,969.54	418.14
			For Class 52 Rating, Deduct	-146.96	
			For Class 54 Rating, Add	100.20	
			For Class 55 Rating, Add	222.71	
40 05 19 00-0767	EA		14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,044.30	420.49
			For Class 52 Rating, Deduct	-154.79	
			For Class 54 Rating, Add	105.54	
			For Class 55 Rating, Add	234.58	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0768	EA		14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,119.06	422.83
			For Class 52 Rating, Deduct	-162.62	
			For Class 54 Rating, Add	110.88	
			For Class 55 Rating, Add	246.45	
40 05 19 00-0769	EA		14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,193.82	425.19
			For Class 52 Rating, Deduct	-170.46	
			For Class 54 Rating, Add	116.22	
			For Class 55 Rating, Add	258.32	
40 05 19 00-0770	EA		14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,268.58	427.53
			For Class 52 Rating, Deduct	-178.29	
			For Class 54 Rating, Add	121.56	
			For Class 55 Rating, Add	270.19	
40 05 19 00-0771	EA		14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,343.34	429.89
			For Class 52 Rating, Deduct	-186.12	
			For Class 54 Rating, Add	126.90	
			For Class 55 Rating, Add	282.06	
40 05 19 00-0772	EA		14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,418.10	432.23
			For Class 52 Rating, Deduct	-193.95	
			For Class 54 Rating, Add	132.24	
			For Class 55 Rating, Add	293.93	
40 05 19 00-0773	EA		14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,492.86	434.58
			For Class 52 Rating, Deduct	-201.78	
			For Class 54 Rating, Add	137.58	
			For Class 55 Rating, Add	305.79	
40 05 19 00-0774	EA		14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,567.62	436.93
			For Class 52 Rating, Deduct	-209.62	
			For Class 54 Rating, Add	142.92	
			For Class 55 Rating, Add	317.66	
40 05 19 00-0775	EA		14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,642.38	439.28
			For Class 52 Rating, Deduct	-217.45	
			For Class 54 Rating, Add	148.26	
			For Class 55 Rating, Add	329.53	
40 05 19 00-0776	EA		14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,717.14	441.62
			For Class 52 Rating, Deduct	-225.28	
			For Class 54 Rating, Add	153.60	
			For Class 55 Rating, Add	341.40	
40 05 19 00-0777	EA		14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,791.89	443.98
			For Class 52 Rating, Deduct	-233.11	
			For Class 54 Rating, Add	158.94	
			For Class 55 Rating, Add	353.27	
40 05 19 00-0778	EA		14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,866.65	446.33
			For Class 52 Rating, Deduct	-240.94	
			For Class 54 Rating, Add	164.28	
			For Class 55 Rating, Add	365.14	
40 05 19 00-0779	EA		14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,941.41	448.68
			For Class 52 Rating, Deduct	-248.78	
			For Class 54 Rating, Add	169.62	
			For Class 55 Rating, Add	377.01	
40 05 19 00-0780	EA		14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,016.17	451.03
			For Class 52 Rating, Deduct	-256.61	
			For Class 54 Rating, Add	174.96	
			For Class 55 Rating, Add	388.88	
40 05 19 00-0781	EA		14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,090.93	453.37
			For Class 52 Rating, Deduct	-264.44	
			For Class 54 Rating, Add	180.30	
			For Class 55 Rating, Add	400.75	
40 05 19 00-0782	EA		14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,165.69	455.73
			For Class 52 Rating, Deduct	-272.27	
			For Class 54 Rating, Add	185.64	
			For Class 55 Rating, Add	412.62	
40 05 19 00-0783	EA		14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,240.45	458.07
			For Class 52 Rating, Deduct	-280.10	
			For Class 54 Rating, Add	190.98	
			For Class 55 Rating, Add	424.48	
40 05 19 00-0784	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,315.21	460.42
			For Class 52 Rating, Deduct	-287.94	
			For Class 54 Rating, Add	196.32	
			For Class 55 Rating, Add	436.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0785	EA	14"	Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,389.97 -295.77 201.66 448.22	462.77
40 05 19 00-0786	EA	14"	Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,464.73 -303.60 207.00 460.09	465.12
40 05 19 00-0787	EA	14"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,539.49 -311.43 212.34 471.96	467.46
40 05 19 00-0788	EA	14"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,614.25 -319.26 217.68 483.83	469.82
40 05 19 00-0789	EA	14"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,689.01 -327.10 223.02 495.70	472.16
40 05 19 00-0790	EA	14"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,763.76 -334.93 228.36 507.57	474.52
40 05 19 00-0791	EA	14"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,838.52 -342.76 233.70 519.44	476.87
40 05 19 00-0792	EA	14"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,913.28 -350.59 239.04 531.31	479.21
40 05 19 00-0793	EA	14"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,988.04 -358.42 244.38 543.18	481.57
40 05 19 00-0794			16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0795	EA	16"	Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,421.77 -81.22 55.38 123.09	451.03
40 05 19 00-0796	EA	16"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,508.53 -90.38 61.62 136.96	453.37
40 05 19 00-0797	EA	16"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,595.29 -99.53 67.86 150.83	455.73
40 05 19 00-0798	EA	16"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,682.05 -108.68 74.10 164.70	458.07
40 05 19 00-0799	EA	16"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,768.81 -117.83 80.34 178.57	460.42
40 05 19 00-0800	EA	16"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,855.57 -126.98 86.58 192.44	462.77
40 05 19 00-0801	EA	16"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,942.33 -136.14 92.82 206.31	465.12

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0802	EA		16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,029.09	467.46
			For Class 52 Rating, Deduct	-145.29	
			For Class 54 Rating, Add	99.06	
			For Class 55 Rating, Add	220.18	
40 05 19 00-0803	EA		16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,115.85	469.82
			For Class 52 Rating, Deduct	-154.44	
			For Class 54 Rating, Add	105.30	
			For Class 55 Rating, Add	234.05	
40 05 19 00-0804	EA		16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,194.61	472.16
			For Class 52 Rating, Deduct	-162.71	
			For Class 54 Rating, Add	110.94	
			For Class 55 Rating, Add	246.58	
40 05 19 00-0805	EA		16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,289.36	474.52
			For Class 52 Rating, Deduct	-172.74	
			For Class 54 Rating, Add	117.78	
			For Class 55 Rating, Add	261.79	
40 05 19 00-0806	EA		16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,376.12	476.87
			For Class 52 Rating, Deduct	-181.90	
			For Class 54 Rating, Add	124.02	
			For Class 55 Rating, Add	275.66	
40 05 19 00-0807	EA		16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,462.88	479.21
			For Class 52 Rating, Deduct	-191.05	
			For Class 54 Rating, Add	130.26	
			For Class 55 Rating, Add	289.52	
40 05 19 00-0808	EA		16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,549.64	481.57
			For Class 52 Rating, Deduct	-200.20	
			For Class 54 Rating, Add	136.50	
			For Class 55 Rating, Add	303.39	
40 05 19 00-0809	EA		16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,636.40	483.91
			For Class 52 Rating, Deduct	-209.35	
			For Class 54 Rating, Add	142.74	
			For Class 55 Rating, Add	317.26	
40 05 19 00-0810	EA		16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,723.16	486.26
			For Class 52 Rating, Deduct	-218.50	
			For Class 54 Rating, Add	148.98	
			For Class 55 Rating, Add	331.13	
40 05 19 00-0811	EA		16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,809.92	488.61
			For Class 52 Rating, Deduct	-227.66	
			For Class 54 Rating, Add	155.22	
			For Class 55 Rating, Add	345.00	
40 05 19 00-0812	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,896.68	490.96
			For Class 52 Rating, Deduct	-236.81	
			For Class 54 Rating, Add	161.46	
			For Class 55 Rating, Add	358.87	
40 05 19 00-0813	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,983.44	493.31
			For Class 52 Rating, Deduct	-245.96	
			For Class 54 Rating, Add	167.70	
			For Class 55 Rating, Add	372.74	
40 05 19 00-0814	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,070.20	495.66
			For Class 52 Rating, Deduct	-255.11	
			For Class 54 Rating, Add	173.94	
			For Class 55 Rating, Add	386.61	
40 05 19 00-0815	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,156.96	498.00
			For Class 52 Rating, Deduct	-264.26	
			For Class 54 Rating, Add	180.18	
			For Class 55 Rating, Add	400.48	
40 05 19 00-0816	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,243.72	500.36
			For Class 52 Rating, Deduct	-273.42	
			For Class 54 Rating, Add	186.42	
			For Class 55 Rating, Add	414.35	
40 05 19 00-0817	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,330.48	502.70
			For Class 52 Rating, Deduct	-282.57	
			For Class 54 Rating, Add	192.66	
			For Class 55 Rating, Add	428.22	
40 05 19 00-0818	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,417.23	505.05
			For Class 52 Rating, Deduct	-291.72	
			For Class 54 Rating, Add	198.90	
			For Class 55 Rating, Add	442.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0819	EA		16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,503.99	507.41
			For Class 52 Rating, Deduct	-300.87	
			For Class 54 Rating, Add	205.14	
			For Class 55 Rating, Add	455.96	
40 05 19 00-0820	EA		16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,590.75	509.75
			For Class 52 Rating, Deduct	-310.02	
			For Class 54 Rating, Add	211.38	
			For Class 55 Rating, Add	469.83	
40 05 19 00-0821	EA		16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,677.51	512.10
			For Class 52 Rating, Deduct	-319.18	
			For Class 54 Rating, Add	217.62	
			For Class 55 Rating, Add	483.70	
40 05 19 00-0822	EA		16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,764.27	514.45
			For Class 52 Rating, Deduct	-328.33	
			For Class 54 Rating, Add	223.86	
			For Class 55 Rating, Add	497.57	
40 05 19 00-0823	EA		16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,851.03	516.80
			For Class 52 Rating, Deduct	-337.48	
			For Class 54 Rating, Add	230.10	
			For Class 55 Rating, Add	511.44	
40 05 19 00-0824	EA		16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,937.79	519.15
			For Class 52 Rating, Deduct	-346.63	
			For Class 54 Rating, Add	236.34	
			For Class 55 Rating, Add	525.31	
40 05 19 00-0825	EA		16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,024.55	521.50
			For Class 52 Rating, Deduct	-355.78	
			For Class 54 Rating, Add	242.58	
			For Class 55 Rating, Add	539.17	
40 05 19 00-0826	EA		16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,111.31	523.84
			For Class 52 Rating, Deduct	-364.94	
			For Class 54 Rating, Add	248.82	
			For Class 55 Rating, Add	553.04	
40 05 19 00-0827	EA		16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,198.07	526.20
			For Class 52 Rating, Deduct	-374.09	
			For Class 54 Rating, Add	255.06	
			For Class 55 Rating, Add	566.91	
40 05 19 00-0828	EA		16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,284.83	528.54
			For Class 52 Rating, Deduct	-383.24	
			For Class 54 Rating, Add	261.30	
			For Class 55 Rating, Add	580.78	
40 05 19 00-0829	EA		16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,371.59	530.89
			For Class 52 Rating, Deduct	-392.39	
			For Class 54 Rating, Add	267.54	
			For Class 55 Rating, Add	594.65	
40 05 19 00-0830	EA		16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,458.35	533.25
			For Class 52 Rating, Deduct	-401.54	
			For Class 54 Rating, Add	273.78	
			For Class 55 Rating, Add	608.52	
40 05 19 00-0831	EA		16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,545.10	535.59
			For Class 52 Rating, Deduct	-410.70	
			For Class 54 Rating, Add	280.02	
			For Class 55 Rating, Add	622.39	
40 05 19 00-0832	EA		16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,631.86	537.95
			For Class 52 Rating, Deduct	-419.85	
			For Class 54 Rating, Add	286.26	
			For Class 55 Rating, Add	636.26	
40 05 19 00-0833			18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0834	EA		18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,646.21	508.35
			For Class 52 Rating, Deduct	-96.36	
			For Class 54 Rating, Add	65.70	
			For Class 55 Rating, Add	146.03	
40 05 19 00-0835	EA		18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,745.77	510.69
			For Class 52 Rating, Deduct	-106.92	
			For Class 54 Rating, Add	72.90	
			For Class 55 Rating, Add	162.03	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0836	EA	18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,845.33	513.05
		For Class 52 Rating, Deduct	-117.48	
		For Class 54 Rating, Add	80.10	
		For Class 55 Rating, Add	178.04	
40 05 19 00-0837	EA	18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,944.89	515.39
		For Class 52 Rating, Deduct	-128.04	
		For Class 54 Rating, Add	87.30	
		For Class 55 Rating, Add	194.04	
40 05 19 00-0838	EA	18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,044.45	517.75
		For Class 52 Rating, Deduct	-138.60	
		For Class 54 Rating, Add	94.50	
		For Class 55 Rating, Add	210.04	
40 05 19 00-0839	EA	18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,144.01	520.09
		For Class 52 Rating, Deduct	-149.16	
		For Class 54 Rating, Add	101.70	
		For Class 55 Rating, Add	226.05	
40 05 19 00-0840	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,243.57	522.44
		For Class 52 Rating, Deduct	-159.72	
		For Class 54 Rating, Add	108.90	
		For Class 55 Rating, Add	242.05	
40 05 19 00-0841	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,343.13	524.79
		For Class 52 Rating, Deduct	-170.28	
		For Class 54 Rating, Add	116.10	
		For Class 55 Rating, Add	258.05	
40 05 19 00-0842	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,442.69	527.14
		For Class 52 Rating, Deduct	-180.84	
		For Class 54 Rating, Add	123.30	
		For Class 55 Rating, Add	274.05	
40 05 19 00-0843	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,542.24	529.48
		For Class 52 Rating, Deduct	-191.40	
		For Class 54 Rating, Add	130.50	
		For Class 55 Rating, Add	290.06	
40 05 19 00-0844	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,641.80	531.84
		For Class 52 Rating, Deduct	-201.96	
		For Class 54 Rating, Add	137.70	
		For Class 55 Rating, Add	306.06	
40 05 19 00-0845	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,741.36	534.19
		For Class 52 Rating, Deduct	-212.52	
		For Class 54 Rating, Add	144.90	
		For Class 55 Rating, Add	322.06	
40 05 19 00-0846	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,840.92	536.53
		For Class 52 Rating, Deduct	-223.08	
		For Class 54 Rating, Add	152.10	
		For Class 55 Rating, Add	338.07	
40 05 19 00-0847	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,940.48	538.89
		For Class 52 Rating, Deduct	-233.64	
		For Class 54 Rating, Add	159.30	
		For Class 55 Rating, Add	354.07	
40 05 19 00-0848	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,040.04	541.23
		For Class 52 Rating, Deduct	-244.20	
		For Class 54 Rating, Add	166.50	
		For Class 55 Rating, Add	370.07	
40 05 19 00-0849	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,139.60	543.59
		For Class 52 Rating, Deduct	-254.76	
		For Class 54 Rating, Add	173.70	
		For Class 55 Rating, Add	386.08	
40 05 19 00-0850	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,239.16	545.93
		For Class 52 Rating, Deduct	-265.32	
		For Class 54 Rating, Add	180.90	
		For Class 55 Rating, Add	402.08	
40 05 19 00-0851	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,338.72	548.28
		For Class 52 Rating, Deduct	-275.88	
		For Class 54 Rating, Add	188.10	
		For Class 55 Rating, Add	418.08	
40 05 19 00-0852	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,438.28	550.63
		For Class 52 Rating, Deduct	-286.44	
		For Class 54 Rating, Add	195.30	
		For Class 55 Rating, Add	434.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0853	EA		18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,537.84	552.98
			For Class 52 Rating, Deduct	-297.00	
			For Class 54 Rating, Add	202.50	
			For Class 55 Rating, Add	450.09	
40 05 19 00-0854	EA		18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,637.40	555.32
			For Class 52 Rating, Deduct	-307.56	
			For Class 54 Rating, Add	209.70	
			For Class 55 Rating, Add	466.09	
40 05 19 00-0855	EA		18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,736.96	557.68
			For Class 52 Rating, Deduct	-318.12	
			For Class 54 Rating, Add	216.90	
			For Class 55 Rating, Add	482.10	
40 05 19 00-0856	EA		18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,836.51	560.02
			For Class 52 Rating, Deduct	-328.68	
			For Class 54 Rating, Add	224.10	
			For Class 55 Rating, Add	498.10	
40 05 19 00-0857	EA		18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,936.07	562.38
			For Class 52 Rating, Deduct	-339.24	
			For Class 54 Rating, Add	231.30	
			For Class 55 Rating, Add	514.10	
40 05 19 00-0858	EA		18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,035.63	564.73
			For Class 52 Rating, Deduct	-349.80	
			For Class 54 Rating, Add	238.50	
			For Class 55 Rating, Add	530.11	
40 05 19 00-0859	EA		18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,135.19	567.07
			For Class 52 Rating, Deduct	-360.36	
			For Class 54 Rating, Add	245.70	
			For Class 55 Rating, Add	546.11	
40 05 19 00-0860	EA		18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,234.75	569.43
			For Class 52 Rating, Deduct	-370.92	
			For Class 54 Rating, Add	252.90	
			For Class 55 Rating, Add	562.11	
40 05 19 00-0861	EA		18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,334.31	571.77
			For Class 52 Rating, Deduct	-381.48	
			For Class 54 Rating, Add	260.10	
			For Class 55 Rating, Add	578.12	
40 05 19 00-0862	EA		18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,433.87	574.12
			For Class 52 Rating, Deduct	-392.04	
			For Class 54 Rating, Add	267.30	
			For Class 55 Rating, Add	594.12	
40 05 19 00-0863	EA		18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,533.43	576.47
			For Class 52 Rating, Deduct	-402.60	
			For Class 54 Rating, Add	274.50	
			For Class 55 Rating, Add	610.12	
40 05 19 00-0864	EA		18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,632.99	578.82
			For Class 52 Rating, Deduct	-413.16	
			For Class 54 Rating, Add	281.70	
			For Class 55 Rating, Add	626.13	
40 05 19 00-0865	EA		18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,732.55	581.16
			For Class 52 Rating, Deduct	-423.72	
			For Class 54 Rating, Add	288.90	
			For Class 55 Rating, Add	642.13	
40 05 19 00-0866	EA		18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,832.11	583.52
			For Class 52 Rating, Deduct	-434.28	
			For Class 54 Rating, Add	296.10	
			For Class 55 Rating, Add	658.13	
40 05 19 00-0867	EA		18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,931.67	585.86
			For Class 52 Rating, Deduct	-444.84	
			For Class 54 Rating, Add	303.30	
			For Class 55 Rating, Add	674.13	
40 05 19 00-0868	EA		18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,031.23	588.22
			For Class 52 Rating, Deduct	-455.40	
			For Class 54 Rating, Add	310.50	
			For Class 55 Rating, Add	690.14	
40 05 19 00-0869	EA		18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,130.78	590.56
			For Class 52 Rating, Deduct	-465.96	
			For Class 54 Rating, Add	317.70	
			For Class 55 Rating, Add	706.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0870	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,230.34	592.91
		For Class 52 Rating, Deduct	-476.52	
		For Class 54 Rating, Add	324.90	
		For Class 55 Rating, Add	722.14	
40 05 19 00-0871	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,329.90	595.27
		For Class 52 Rating, Deduct	-487.08	
		For Class 54 Rating, Add	332.10	
		For Class 55 Rating, Add	738.15	
40 05 19 00-0872 20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)				
40 05 19 00-0873	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,902.33	580.22
		For Class 52 Rating, Deduct	-112.55	
		For Class 54 Rating, Add	76.74	
		For Class 55 Rating, Add	170.57	
40 05 19 00-0874	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,016.29	582.58
		For Class 52 Rating, Deduct	-124.70	
		For Class 54 Rating, Add	85.02	
		For Class 55 Rating, Add	188.97	
40 05 19 00-0875	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,130.25	584.92
		For Class 52 Rating, Deduct	-136.84	
		For Class 54 Rating, Add	93.30	
		For Class 55 Rating, Add	207.37	
40 05 19 00-0876	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,244.21	587.27
		For Class 52 Rating, Deduct	-148.98	
		For Class 54 Rating, Add	101.58	
		For Class 55 Rating, Add	225.78	
40 05 19 00-0877	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,358.17	589.62
		For Class 52 Rating, Deduct	-161.13	
		For Class 54 Rating, Add	109.86	
		For Class 55 Rating, Add	244.18	
40 05 19 00-0878	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,472.13	591.97
		For Class 52 Rating, Deduct	-173.27	
		For Class 54 Rating, Add	118.14	
		For Class 55 Rating, Add	262.59	
40 05 19 00-0879	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,586.09	594.32
		For Class 52 Rating, Deduct	-185.42	
		For Class 54 Rating, Add	126.42	
		For Class 55 Rating, Add	280.99	
40 05 19 00-0880	EA	20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,700.04	596.67
		For Class 52 Rating, Deduct	-197.56	
		For Class 54 Rating, Add	134.70	
		For Class 55 Rating, Add	299.39	
40 05 19 00-0881	EA	20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,814.00	599.02
		For Class 52 Rating, Deduct	-209.70	
		For Class 54 Rating, Add	142.98	
		For Class 55 Rating, Add	317.80	
40 05 19 00-0882	EA	20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,927.96	601.37
		For Class 52 Rating, Deduct	-221.85	
		For Class 54 Rating, Add	151.26	
		For Class 55 Rating, Add	336.20	
40 05 19 00-0883	EA	20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,041.92	603.72
		For Class 52 Rating, Deduct	-233.99	
		For Class 54 Rating, Add	159.54	
		For Class 55 Rating, Add	354.60	
40 05 19 00-0884	EA	20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,155.88	606.06
		For Class 52 Rating, Deduct	-246.14	
		For Class 54 Rating, Add	167.82	
		For Class 55 Rating, Add	373.01	
40 05 19 00-0885	EA	20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,269.84	608.42
		For Class 52 Rating, Deduct	-258.28	
		For Class 54 Rating, Add	176.10	
		For Class 55 Rating, Add	391.41	
40 05 19 00-0886	EA	20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,383.80	610.76
		For Class 52 Rating, Deduct	-270.42	
		For Class 54 Rating, Add	184.38	
		For Class 55 Rating, Add	409.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0887	EA		20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,497.76	613.11
			For Class 52 Rating, Deduct	-282.57	
			For Class 54 Rating, Add	192.66	
			For Class 55 Rating, Add	428.22	
40 05 19 00-0888	EA		20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,611.72	615.46
			For Class 52 Rating, Deduct	-294.71	
			For Class 54 Rating, Add	200.94	
			For Class 55 Rating, Add	446.62	
40 05 19 00-0889	EA		20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,725.68	617.81
			For Class 52 Rating, Deduct	-306.86	
			For Class 54 Rating, Add	209.22	
			For Class 55 Rating, Add	465.03	
40 05 19 00-0890	EA		20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,839.64	620.15
			For Class 52 Rating, Deduct	-319.00	
			For Class 54 Rating, Add	217.50	
			For Class 55 Rating, Add	483.43	
40 05 19 00-0891	EA		20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,953.60	622.51
			For Class 52 Rating, Deduct	-331.14	
			For Class 54 Rating, Add	225.78	
			For Class 55 Rating, Add	501.83	
40 05 19 00-0892	EA		20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,067.56	624.86
			For Class 52 Rating, Deduct	-343.29	
			For Class 54 Rating, Add	234.06	
			For Class 55 Rating, Add	520.24	
40 05 19 00-0893	EA		20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,181.51	627.21
			For Class 52 Rating, Deduct	-355.43	
			For Class 54 Rating, Add	242.34	
			For Class 55 Rating, Add	538.64	
40 05 19 00-0894	EA		20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,295.47	629.56
			For Class 52 Rating, Deduct	-367.58	
			For Class 54 Rating, Add	250.62	
			For Class 55 Rating, Add	557.04	
40 05 19 00-0895	EA		20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,409.43	631.90
			For Class 52 Rating, Deduct	-379.72	
			For Class 54 Rating, Add	258.90	
			For Class 55 Rating, Add	575.45	
40 05 19 00-0896	EA		20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,523.39	634.26
			For Class 52 Rating, Deduct	-391.86	
			For Class 54 Rating, Add	267.18	
			For Class 55 Rating, Add	593.85	
40 05 19 00-0897	EA		20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,637.35	636.60
			For Class 52 Rating, Deduct	-404.01	
			For Class 54 Rating, Add	275.46	
			For Class 55 Rating, Add	612.26	
40 05 19 00-0898	EA		20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,751.31	638.95
			For Class 52 Rating, Deduct	-416.15	
			For Class 54 Rating, Add	283.74	
			For Class 55 Rating, Add	630.66	
40 05 19 00-0899	EA		20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,865.27	641.30
			For Class 52 Rating, Deduct	-428.30	
			For Class 54 Rating, Add	292.02	
			For Class 55 Rating, Add	649.06	
40 05 19 00-0900	EA		20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,979.23	643.65
			For Class 52 Rating, Deduct	-440.44	
			For Class 54 Rating, Add	300.30	
			For Class 55 Rating, Add	667.47	
40 05 19 00-0901	EA		20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,093.19	646.00
			For Class 52 Rating, Deduct	-452.58	
			For Class 54 Rating, Add	308.58	
			For Class 55 Rating, Add	685.87	
40 05 19 00-0902	EA		20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,207.15	648.35
			For Class 52 Rating, Deduct	-464.73	
			For Class 54 Rating, Add	316.86	
			For Class 55 Rating, Add	704.27	
40 05 19 00-0903	EA		20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,321.11	650.69
			For Class 52 Rating, Deduct	-476.87	
			For Class 54 Rating, Add	325.14	
			For Class 55 Rating, Add	722.68	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0904	EA		20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,435.07	653.05
			For Class 52 Rating, Deduct	-489.02	
			For Class 54 Rating, Add	333.42	
			For Class 55 Rating, Add	741.08	
40 05 19 00-0905	EA		20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,549.03	655.40
			For Class 52 Rating, Deduct	-501.16	
			For Class 54 Rating, Add	341.70	
			For Class 55 Rating, Add	759.49	
40 05 19 00-0906	EA		20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,662.98	657.74
			For Class 52 Rating, Deduct	-513.30	
			For Class 54 Rating, Add	349.98	
			For Class 55 Rating, Add	777.89	
40 05 19 00-0907	EA		20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,776.94	660.10
			For Class 52 Rating, Deduct	-525.45	
			For Class 54 Rating, Add	358.26	
			For Class 55 Rating, Add	796.29	
40 05 19 00-0908	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,890.90	662.44
			For Class 52 Rating, Deduct	-537.59	
			For Class 54 Rating, Add	366.54	
			For Class 55 Rating, Add	814.70	
40 05 19 00-0909	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,004.86	664.79
			For Class 52 Rating, Deduct	-549.74	
			For Class 54 Rating, Add	374.82	
			For Class 55 Rating, Add	833.10	
40 05 19 00-0910	EA		20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,118.82	667.14
			For Class 52 Rating, Deduct	-561.88	
			For Class 54 Rating, Add	383.10	
			For Class 55 Rating, Add	851.50	
40 05 19 00-0911			24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0912	EA		24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,332.10	685.94
			For Class 52 Rating, Deduct	-142.21	
			For Class 54 Rating, Add	96.96	
			For Class 55 Rating, Add	215.51	
40 05 19 00-0913	EA		24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,472.45	688.28
			For Class 52 Rating, Deduct	-157.26	
			For Class 54 Rating, Add	107.22	
			For Class 55 Rating, Add	238.31	
40 05 19 00-0914	EA		24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,612.81	690.64
			For Class 52 Rating, Deduct	-172.30	
			For Class 54 Rating, Add	117.48	
			For Class 55 Rating, Add	261.12	
40 05 19 00-0915	EA		24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,753.17	692.98
			For Class 52 Rating, Deduct	-187.35	
			For Class 54 Rating, Add	127.74	
			For Class 55 Rating, Add	283.92	
40 05 19 00-0916	EA		24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,893.53	695.33
			For Class 52 Rating, Deduct	-202.40	
			For Class 54 Rating, Add	138.00	
			For Class 55 Rating, Add	306.73	
40 05 19 00-0917	EA		24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,033.89	697.68
			For Class 52 Rating, Deduct	-217.45	
			For Class 54 Rating, Add	148.26	
			For Class 55 Rating, Add	329.53	
40 05 19 00-0918	EA		24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,174.25	700.03
			For Class 52 Rating, Deduct	-232.50	
			For Class 54 Rating, Add	158.52	
			For Class 55 Rating, Add	352.34	
40 05 19 00-0919	EA		24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,314.61	702.37
			For Class 52 Rating, Deduct	-247.54	
			For Class 54 Rating, Add	168.78	
			For Class 55 Rating, Add	375.14	
40 05 19 00-0920	EA		24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,454.97	704.73
			For Class 52 Rating, Deduct	-262.59	
			For Class 54 Rating, Add	179.04	
			For Class 55 Rating, Add	397.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0921	EA		24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,595.33	707.07
			For Class 52 Rating, Deduct	-277.64	
			For Class 54 Rating, Add	189.30	
			For Class 55 Rating, Add	420.75	
40 05 19 00-0922	EA		24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,735.69	709.43
			For Class 52 Rating, Deduct	-292.69	
			For Class 54 Rating, Add	199.56	
			For Class 55 Rating, Add	443.56	
40 05 19 00-0923	EA		24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,876.05	711.78
			For Class 52 Rating, Deduct	-307.74	
			For Class 54 Rating, Add	209.82	
			For Class 55 Rating, Add	466.36	
40 05 19 00-0924	EA		24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,016.41	714.12
			For Class 52 Rating, Deduct	-322.78	
			For Class 54 Rating, Add	220.08	
			For Class 55 Rating, Add	489.16	
40 05 19 00-0925	EA		24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,156.77	716.48
			For Class 52 Rating, Deduct	-337.83	
			For Class 54 Rating, Add	230.34	
			For Class 55 Rating, Add	511.97	
40 05 19 00-0926	EA		24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,297.12	718.82
			For Class 52 Rating, Deduct	-352.88	
			For Class 54 Rating, Add	240.60	
			For Class 55 Rating, Add	534.77	
40 05 19 00-0927	EA		24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,437.48	721.17
			For Class 52 Rating, Deduct	-367.93	
			For Class 54 Rating, Add	250.86	
			For Class 55 Rating, Add	557.58	
40 05 19 00-0928	EA		24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,577.84	723.52
			For Class 52 Rating, Deduct	-382.98	
			For Class 54 Rating, Add	261.12	
			For Class 55 Rating, Add	580.38	
40 05 19 00-0929	EA		24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,718.20	725.87
			For Class 52 Rating, Deduct	-398.02	
			For Class 54 Rating, Add	271.38	
			For Class 55 Rating, Add	603.19	
40 05 19 00-0930	EA		24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,858.56	728.21
			For Class 52 Rating, Deduct	-413.07	
			For Class 54 Rating, Add	281.64	
			For Class 55 Rating, Add	625.99	
40 05 19 00-0931	EA		24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,998.92	730.57
			For Class 52 Rating, Deduct	-428.12	
			For Class 54 Rating, Add	291.90	
			For Class 55 Rating, Add	648.80	
40 05 19 00-0932	EA		24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,139.28	732.91
			For Class 52 Rating, Deduct	-443.17	
			For Class 54 Rating, Add	302.16	
			For Class 55 Rating, Add	671.60	
40 05 19 00-0933	EA		24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,279.64	735.27
			For Class 52 Rating, Deduct	-458.22	
			For Class 54 Rating, Add	312.42	
			For Class 55 Rating, Add	694.41	
40 05 19 00-0934	EA		24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,420.00	737.61
			For Class 52 Rating, Deduct	-473.26	
			For Class 54 Rating, Add	322.68	
			For Class 55 Rating, Add	717.21	
40 05 19 00-0935	EA		24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,560.36	739.96
			For Class 52 Rating, Deduct	-488.31	
			For Class 54 Rating, Add	332.94	
			For Class 55 Rating, Add	740.01	
40 05 19 00-0936	EA		24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,700.72	742.32
			For Class 52 Rating, Deduct	-503.36	
			For Class 54 Rating, Add	343.20	
			For Class 55 Rating, Add	762.82	
40 05 19 00-0937	EA		24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,841.08	744.66
			For Class 52 Rating, Deduct	-518.41	
			For Class 54 Rating, Add	353.46	
			For Class 55 Rating, Add	785.62	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938	EA	24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,981.44	747.01
		For Class 52 Rating, Deduct	-533.46	
		For Class 54 Rating, Add	363.72	
		For Class 55 Rating, Add	808.43	
40 05 19 00-0939	EA	24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,121.79	749.36
		For Class 52 Rating, Deduct	-548.50	
		For Class 54 Rating, Add	373.98	
		For Class 55 Rating, Add	831.23	
40 05 19 00-0940	EA	24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,262.15	751.71
		For Class 52 Rating, Deduct	-563.55	
		For Class 54 Rating, Add	384.24	
		For Class 55 Rating, Add	854.04	
40 05 19 00-0941	EA	24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,463.02	793.99
		For Class 52 Rating, Deduct	-578.60	
		For Class 54 Rating, Add	394.50	
		For Class 55 Rating, Add	876.84	
40 05 19 00-0942	EA	24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,603.38	796.34
		For Class 52 Rating, Deduct	-593.65	
		For Class 54 Rating, Add	404.76	
		For Class 55 Rating, Add	899.65	
40 05 19 00-0943	EA	24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,743.74	798.69
		For Class 52 Rating, Deduct	-608.70	
		For Class 54 Rating, Add	415.02	
		For Class 55 Rating, Add	922.45	
40 05 19 00-0944	EA	24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,884.10	801.04
		For Class 52 Rating, Deduct	-623.74	
		For Class 54 Rating, Add	425.28	
		For Class 55 Rating, Add	945.26	
40 05 19 00-0945	EA	24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,024.46	803.39
		For Class 52 Rating, Deduct	-638.79	
		For Class 54 Rating, Add	435.54	
		For Class 55 Rating, Add	968.06	
40 05 19 00-0946	EA	24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,164.82	805.74
		For Class 52 Rating, Deduct	-653.84	
		For Class 54 Rating, Add	445.80	
		For Class 55 Rating, Add	990.86	
40 05 19 00-0947	EA	24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,305.18	808.09
		For Class 52 Rating, Deduct	-668.89	
		For Class 54 Rating, Add	456.06	
		For Class 55 Rating, Add	1,013.67	
40 05 19 00-0948	EA	24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,445.53	810.43
		For Class 52 Rating, Deduct	-683.94	
		For Class 54 Rating, Add	466.32	
		For Class 55 Rating, Add	1,036.47	
40 05 19 00-0949	EA	24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,585.89	812.79
		For Class 52 Rating, Deduct	-698.98	
		For Class 54 Rating, Add	476.58	
		For Class 55 Rating, Add	1,059.28	
40 05 19 00-0950		30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0951	EA	30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,530.40	967.82
		For Class 52 Rating, Deduct	-227.04	
		For Class 54 Rating, Add	154.80	
		For Class 55 Rating, Add	344.07	
40 05 19 00-0952	EA	30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,731.56	970.17
		For Class 52 Rating, Deduct	-248.78	
		For Class 54 Rating, Add	169.62	
		For Class 55 Rating, Add	377.01	
40 05 19 00-0953	EA	30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,932.72	972.52
		For Class 52 Rating, Deduct	-270.51	
		For Class 54 Rating, Add	184.44	
		For Class 55 Rating, Add	409.95	
40 05 19 00-0954	EA	30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,133.88	974.87
		For Class 52 Rating, Deduct	-292.25	
		For Class 54 Rating, Add	199.26	
		For Class 55 Rating, Add	442.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0955	EA		30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,335.04	977.23
			For Class 52 Rating, Deduct	-313.98	
			For Class 54 Rating, Add	214.08	
			For Class 55 Rating, Add	475.83	
40 05 19 00-0956	EA		30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,536.20	979.57
			For Class 52 Rating, Deduct	-335.72	
			For Class 54 Rating, Add	228.90	
			For Class 55 Rating, Add	508.77	
40 05 19 00-0957	EA		30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,737.36	981.92
			For Class 52 Rating, Deduct	-357.46	
			For Class 54 Rating, Add	243.72	
			For Class 55 Rating, Add	541.71	
40 05 19 00-0958	EA		30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,938.52	984.27
			For Class 52 Rating, Deduct	-379.19	
			For Class 54 Rating, Add	258.54	
			For Class 55 Rating, Add	574.65	
40 05 19 00-0959	EA		30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,139.68	986.62
			For Class 52 Rating, Deduct	-400.93	
			For Class 54 Rating, Add	273.36	
			For Class 55 Rating, Add	607.59	
40 05 19 00-0960	EA		30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,340.84	988.96
			For Class 52 Rating, Deduct	-422.66	
			For Class 54 Rating, Add	288.18	
			For Class 55 Rating, Add	640.53	
40 05 19 00-0961	EA		30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,542.00	991.32
			For Class 52 Rating, Deduct	-444.40	
			For Class 54 Rating, Add	303.00	
			For Class 55 Rating, Add	673.47	
40 05 19 00-0962	EA		30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,743.15	993.66
			For Class 52 Rating, Deduct	-466.14	
			For Class 54 Rating, Add	317.82	
			For Class 55 Rating, Add	706.41	
40 05 19 00-0963	EA		30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,944.31	996.02
			For Class 52 Rating, Deduct	-487.87	
			For Class 54 Rating, Add	332.64	
			For Class 55 Rating, Add	739.35	
40 05 19 00-0964	EA		30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,145.47	998.36
			For Class 52 Rating, Deduct	-509.61	
			For Class 54 Rating, Add	347.46	
			For Class 55 Rating, Add	772.29	
40 05 19 00-0965	EA		30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,346.63	1,000.71
			For Class 52 Rating, Deduct	-531.34	
			For Class 54 Rating, Add	362.28	
			For Class 55 Rating, Add	805.23	
40 05 19 00-0966	EA		30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,547.79	1,003.06
			For Class 52 Rating, Deduct	-553.08	
			For Class 54 Rating, Add	377.10	
			For Class 55 Rating, Add	838.17	
40 05 19 00-0967	EA		30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,748.95	1,005.41
			For Class 52 Rating, Deduct	-574.82	
			For Class 54 Rating, Add	391.92	
			For Class 55 Rating, Add	871.11	
40 05 19 00-0968	EA		30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,950.11	1,007.76
			For Class 52 Rating, Deduct	-596.55	
			For Class 54 Rating, Add	406.74	
			For Class 55 Rating, Add	904.05	
40 05 19 00-0969	EA		30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,151.27	1,010.11
			For Class 52 Rating, Deduct	-618.29	
			For Class 54 Rating, Add	421.56	
			For Class 55 Rating, Add	936.99	
40 05 19 00-0970	EA		30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,352.43	1,012.46
			For Class 52 Rating, Deduct	-640.02	
			For Class 54 Rating, Add	436.38	
			For Class 55 Rating, Add	969.93	
40 05 19 00-0971	EA		30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,553.59	1,014.81
			For Class 52 Rating, Deduct	-661.76	
			For Class 54 Rating, Add	451.20	
			For Class 55 Rating, Add	1,002.87	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0972	EA		30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,754.75	1,017.16
			For Class 52 Rating, Deduct	-683.50	
			For Class 54 Rating, Add	466.02	
			For Class 55 Rating, Add	1,035.81	
40 05 19 00-0973	EA		30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,955.91	1,019.50
			For Class 52 Rating, Deduct	-705.23	
			For Class 54 Rating, Add	480.84	
			For Class 55 Rating, Add	1,068.75	
40 05 19 00-0974	EA		30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,157.07	1,021.86
			For Class 52 Rating, Deduct	-726.97	
			For Class 54 Rating, Add	495.66	
			For Class 55 Rating, Add	1,101.69	
40 05 19 00-0975	EA		30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,358.22	1,024.20
			For Class 52 Rating, Deduct	-748.70	
			For Class 54 Rating, Add	510.48	
			For Class 55 Rating, Add	1,134.63	
40 05 19 00-0976	EA		30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,559.38	1,026.55
			For Class 52 Rating, Deduct	-770.44	
			For Class 54 Rating, Add	525.30	
			For Class 55 Rating, Add	1,167.57	
40 05 19 00-0977	EA		30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,760.54	1,028.90
			For Class 52 Rating, Deduct	-792.18	
			For Class 54 Rating, Add	540.12	
			For Class 55 Rating, Add	1,200.51	
40 05 19 00-0978	EA		30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,961.70	1,031.25
			For Class 52 Rating, Deduct	-813.91	
			For Class 54 Rating, Add	554.94	
			For Class 55 Rating, Add	1,233.45	
40 05 19 00-0979	EA		30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,162.86	1,033.59
			For Class 52 Rating, Deduct	-835.65	
			For Class 54 Rating, Add	569.76	
			For Class 55 Rating, Add	1,266.39	
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,364.02	1,035.95
			For Class 52 Rating, Deduct	-857.38	
			For Class 54 Rating, Add	584.58	
			For Class 55 Rating, Add	1,299.33	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,565.18	1,038.30
			For Class 52 Rating, Deduct	-879.12	
			For Class 54 Rating, Add	599.40	
			For Class 55 Rating, Add	1,332.27	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,766.34	1,040.65
			For Class 52 Rating, Deduct	-900.86	
			For Class 54 Rating, Add	614.22	
			For Class 55 Rating, Add	1,365.21	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,967.50	1,043.00
			For Class 52 Rating, Deduct	-922.59	
			For Class 54 Rating, Add	629.04	
			For Class 55 Rating, Add	1,398.15	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,168.66	1,045.34
			For Class 52 Rating, Deduct	-944.33	
			For Class 54 Rating, Add	643.86	
			For Class 55 Rating, Add	1,431.09	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,369.82	1,047.70
			For Class 52 Rating, Deduct	-966.06	
			For Class 54 Rating, Add	658.68	
			For Class 55 Rating, Add	1,464.03	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,570.98	1,050.04
			For Class 52 Rating, Deduct	-987.80	
			For Class 54 Rating, Add	673.50	
			For Class 55 Rating, Add	1,496.97	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,772.14	1,052.39
			For Class 52 Rating, Deduct	-1,009.54	
			For Class 54 Rating, Add	688.32	
			For Class 55 Rating, Add	1,529.91	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,973.29	1,054.74
			For Class 52 Rating, Deduct	-1,031.27	
			For Class 54 Rating, Add	703.14	
			For Class 55 Rating, Add	1,562.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0989			36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0990	EA		36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,767.52	1,226.23
			For Class 52 Rating, Deduct	-320.06	
			For Class 54 Rating, Add	218.22	
			For Class 55 Rating, Add	485.03	
40 05 19 00-0991	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,039.88	1,228.57
			For Class 52 Rating, Deduct	-349.62	
			For Class 54 Rating, Add	238.38	
			For Class 55 Rating, Add	529.84	
40 05 19 00-0992	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,312.24	1,230.92
			For Class 52 Rating, Deduct	-379.19	
			For Class 54 Rating, Add	258.54	
			For Class 55 Rating, Add	574.65	
40 05 19 00-0993	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,584.60	1,233.27
			For Class 52 Rating, Deduct	-408.76	
			For Class 54 Rating, Add	278.70	
			For Class 55 Rating, Add	619.46	
40 05 19 00-0994	EA		36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,856.96	1,235.62
			For Class 52 Rating, Deduct	-438.33	
			For Class 54 Rating, Add	298.86	
			For Class 55 Rating, Add	664.27	
40 05 19 00-0995	EA		36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,129.31	1,237.97
			For Class 52 Rating, Deduct	-467.90	
			For Class 54 Rating, Add	319.02	
			For Class 55 Rating, Add	709.08	
40 05 19 00-0996	EA		36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,401.67	1,240.32
			For Class 52 Rating, Deduct	-497.46	
			For Class 54 Rating, Add	339.18	
			For Class 55 Rating, Add	753.88	
40 05 19 00-0997	EA		36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,674.03	1,242.66
			For Class 52 Rating, Deduct	-527.03	
			For Class 54 Rating, Add	359.34	
			For Class 55 Rating, Add	798.69	
40 05 19 00-0998	EA		36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,946.39	1,245.02
			For Class 52 Rating, Deduct	-556.60	
			For Class 54 Rating, Add	379.50	
			For Class 55 Rating, Add	843.50	
40 05 19 00-0999	EA		36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,218.75	1,247.37
			For Class 52 Rating, Deduct	-586.17	
			For Class 54 Rating, Add	399.66	
			For Class 55 Rating, Add	888.31	
40 05 19 00-1000	EA		36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,491.11	1,249.71
			For Class 52 Rating, Deduct	-615.74	
			For Class 54 Rating, Add	419.82	
			For Class 55 Rating, Add	933.12	
40 05 19 00-1001	EA		36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,763.47	1,252.07
			For Class 52 Rating, Deduct	-645.30	
			For Class 54 Rating, Add	439.98	
			For Class 55 Rating, Add	977.93	
40 05 19 00-1002	EA		36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,035.83	1,254.41
			For Class 52 Rating, Deduct	-674.87	
			For Class 54 Rating, Add	460.14	
			For Class 55 Rating, Add	1,022.74	
40 05 19 00-1003	EA		36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,308.19	1,256.77
			For Class 52 Rating, Deduct	-704.44	
			For Class 54 Rating, Add	480.30	
			For Class 55 Rating, Add	1,067.55	
40 05 19 00-1004	EA		36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,580.55	1,259.11
			For Class 52 Rating, Deduct	-734.01	
			For Class 54 Rating, Add	500.46	
			For Class 55 Rating, Add	1,112.36	
40 05 19 00-1005	EA		36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,852.91	1,261.46
			For Class 52 Rating, Deduct	-763.58	
			For Class 54 Rating, Add	520.62	
			For Class 55 Rating, Add	1,157.16	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1006	EA		36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,125.27	1,263.81
			For Class 52 Rating, Deduct	-793.14	
			For Class 54 Rating, Add	540.78	
			For Class 55 Rating, Add	1,201.97	
40 05 19 00-1007	EA		36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,397.63	1,266.16
			For Class 52 Rating, Deduct	-822.71	
			For Class 54 Rating, Add	560.94	
			For Class 55 Rating, Add	1,246.78	
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,669.98	1,268.50
			For Class 52 Rating, Deduct	-852.28	
			For Class 54 Rating, Add	581.10	
			For Class 55 Rating, Add	1,291.59	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,942.34	1,270.86
			For Class 52 Rating, Deduct	-881.85	
			For Class 54 Rating, Add	601.26	
			For Class 55 Rating, Add	1,336.40	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,214.70	1,273.20
			For Class 52 Rating, Deduct	-911.42	
			For Class 54 Rating, Add	621.42	
			For Class 55 Rating, Add	1,381.21	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,487.06	1,275.55
			For Class 52 Rating, Deduct	-940.98	
			For Class 54 Rating, Add	641.58	
			For Class 55 Rating, Add	1,426.02	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,759.42	1,277.91
			For Class 52 Rating, Deduct	-970.55	
			For Class 54 Rating, Add	661.74	
			For Class 55 Rating, Add	1,470.83	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,031.78	1,280.25
			For Class 52 Rating, Deduct	-1,000.12	
			For Class 54 Rating, Add	681.90	
			For Class 55 Rating, Add	1,515.64	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,304.14	1,282.61
			For Class 52 Rating, Deduct	-1,029.69	
			For Class 54 Rating, Add	702.06	
			For Class 55 Rating, Add	1,560.45	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,576.50	1,284.95
			For Class 52 Rating, Deduct	-1,059.26	
			For Class 54 Rating, Add	722.22	
			For Class 55 Rating, Add	1,605.25	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,848.86	1,287.30
			For Class 52 Rating, Deduct	-1,088.82	
			For Class 54 Rating, Add	742.38	
			For Class 55 Rating, Add	1,650.06	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,121.22	1,289.65
			For Class 52 Rating, Deduct	-1,118.39	
			For Class 54 Rating, Add	762.54	
			For Class 55 Rating, Add	1,694.87	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,393.58	1,292.00
			For Class 52 Rating, Deduct	-1,147.96	
			For Class 54 Rating, Add	782.70	
			For Class 55 Rating, Add	1,739.68	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,665.94	1,294.34
			For Class 52 Rating, Deduct	-1,177.53	
			For Class 54 Rating, Add	802.86	
			For Class 55 Rating, Add	1,784.49	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,938.30	1,296.70
			For Class 52 Rating, Deduct	-1,207.10	
			For Class 54 Rating, Add	823.02	
			For Class 55 Rating, Add	1,829.30	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,210.65	1,299.04
			For Class 52 Rating, Deduct	-1,236.66	
			For Class 54 Rating, Add	843.18	
			For Class 55 Rating, Add	1,874.11	
40 05 19 00-1022	EA		36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,483.01	1,301.40
			For Class 52 Rating, Deduct	-1,266.23	
			For Class 54 Rating, Add	863.34	
			For Class 55 Rating, Add	1,918.92	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1023	EA		36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,755.37	1,303.75
			For Class 52 Rating, Deduct	-1,295.80	
			For Class 54 Rating, Add	883.50	
			For Class 55 Rating, Add	1,963.73	
40 05 19 00-1024	EA		36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,027.73	1,306.09
			For Class 52 Rating, Deduct	-1,325.37	
			For Class 54 Rating, Add	903.66	
			For Class 55 Rating, Add	2,008.53	
40 05 19 00-1025	EA		36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,300.09	1,308.45
			For Class 52 Rating, Deduct	-1,354.94	
			For Class 54 Rating, Add	923.82	
			For Class 55 Rating, Add	2,053.34	
40 05 19 00-1026	EA		36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,572.45	1,310.79
			For Class 52 Rating, Deduct	-1,384.50	
			For Class 54 Rating, Add	943.98	
			For Class 55 Rating, Add	2,098.15	
40 05 19 00-1027	EA		36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,844.81	1,313.14
			For Class 52 Rating, Deduct	-1,414.07	
			For Class 54 Rating, Add	964.14	
			For Class 55 Rating, Add	2,142.96	
40 05 19 00-1028			Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0001)		
40 05 19 00-1029			4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1030	EA		4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	290.06	114.88
			For Class 52 Rating, Deduct	-12.76	
			For Class 54 Rating, Add	8.70	
			For Class 55 Rating, Add	19.34	
40 05 19 00-1031	EA		4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	313.90	116.89
			For Class 52 Rating, Deduct	-15.05	
			For Class 54 Rating, Add	10.26	
			For Class 55 Rating, Add	22.80	
40 05 19 00-1032	EA		4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	337.75	118.91
			For Class 52 Rating, Deduct	-17.34	
			For Class 54 Rating, Add	11.82	
			For Class 55 Rating, Add	26.27	
40 05 19 00-1033	EA		4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	361.59	120.90
			For Class 52 Rating, Deduct	-19.62	
			For Class 54 Rating, Add	13.38	
			For Class 55 Rating, Add	29.74	
40 05 19 00-1034	EA		4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	385.44	122.92
			For Class 52 Rating, Deduct	-21.91	
			For Class 54 Rating, Add	14.94	
			For Class 55 Rating, Add	33.21	
40 05 19 00-1035	EA		4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	409.28	124.93
			For Class 52 Rating, Deduct	-24.20	
			For Class 54 Rating, Add	16.50	
			For Class 55 Rating, Add	36.67	
40 05 19 00-1036	EA		4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	433.13	126.94
			For Class 52 Rating, Deduct	-26.49	
			For Class 54 Rating, Add	18.06	
			For Class 55 Rating, Add	40.14	
40 05 19 00-1037	EA		4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	456.97	128.94
			For Class 52 Rating, Deduct	-28.78	
			For Class 54 Rating, Add	19.62	
			For Class 55 Rating, Add	43.61	
40 05 19 00-1038	EA		4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	480.81	130.95
			For Class 52 Rating, Deduct	-31.06	
			For Class 54 Rating, Add	21.18	
			For Class 55 Rating, Add	47.08	
40 05 19 00-1039	EA		4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	504.65	132.97
			For Class 52 Rating, Deduct	-33.35	
			For Class 54 Rating, Add	22.74	
			For Class 55 Rating, Add	50.54	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1040	EA	4" Flanged x Plain End (FxE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	528.50		134.96	
		For Class 52 Rating, Deduct	-35.64			
		For Class 54 Rating, Add	24.30			
		For Class 55 Rating, Add	54.01			
40 05 19 00-1041	EA	4" Flanged x Plain End (FxE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	552.34		136.97	
		For Class 52 Rating, Deduct	-37.93			
		For Class 54 Rating, Add	25.86			
		For Class 55 Rating, Add	57.48			
40 05 19 00-1042	EA	4" Flanged x Plain End (FxE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	576.18		138.99	
		For Class 52 Rating, Deduct	-40.22			
		For Class 54 Rating, Add	27.42			
		For Class 55 Rating, Add	60.95			
40 05 19 00-1043	EA	4" Flanged x Plain End (FxE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	600.02		141.00	
		For Class 52 Rating, Deduct	-42.50			
		For Class 54 Rating, Add	28.98			
		For Class 55 Rating, Add	64.41			
40 05 19 00-1044	EA	4" Flanged x Plain End (FxE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	623.87		143.00	
		For Class 52 Rating, Deduct	-44.79			
		For Class 54 Rating, Add	30.54			
		For Class 55 Rating, Add	67.88			
40 05 19 00-1045	EA	4" Flanged x Plain End (FxE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	647.71		145.01	
		For Class 52 Rating, Deduct	-47.08			
		For Class 54 Rating, Add	32.10			
		For Class 55 Rating, Add	71.35			
40 05 19 00-1046	EA	4" Flanged x Plain End (FxE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	671.55		147.02	
		For Class 52 Rating, Deduct	-49.37			
		For Class 54 Rating, Add	33.66			
		For Class 55 Rating, Add	74.81			
40 05 19 00-1047	EA	4" Flanged x Plain End (FxE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	695.39		149.03	
		For Class 52 Rating, Deduct	-51.66			
		For Class 54 Rating, Add	35.22			
		For Class 55 Rating, Add	78.28			
40 05 19 00-1048	EA	4" Flanged x Plain End (FxE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	719.24		151.03	
		For Class 52 Rating, Deduct	-53.94			
		For Class 54 Rating, Add	36.78			
		For Class 55 Rating, Add	81.75			
40 05 19 00-1049	EA	4" Flanged x Plain End (FxE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	743.09		153.05	
		For Class 52 Rating, Deduct	-56.23			
		For Class 54 Rating, Add	38.34			
		For Class 55 Rating, Add	85.22			
40 05 19 00-1050	EA	4" Flanged x Plain End (FxE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	766.93		155.06	
		For Class 52 Rating, Deduct	-58.52			
		For Class 54 Rating, Add	39.90			
		For Class 55 Rating, Add	88.68			
40 05 19 00-1051	EA	4" Flanged x Plain End (FxE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	790.77		157.06	
		For Class 52 Rating, Deduct	-60.81			
		For Class 54 Rating, Add	41.46			
		For Class 55 Rating, Add	92.15			
40 05 19 00-1052	EA	4" Flanged x Plain End (FxE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	814.62		159.07	
		For Class 52 Rating, Deduct	-63.10			
		For Class 54 Rating, Add	43.02			
		For Class 55 Rating, Add	95.62			
40 05 19 00-1053	EA	4" Flanged x Plain End (FxE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	838.46		161.08	
		For Class 52 Rating, Deduct	-65.38			
		For Class 54 Rating, Add	44.58			
		For Class 55 Rating, Add	99.09			
40 05 19 00-1054	EA	4" Flanged x Plain End (FxE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	862.30		163.09	
		For Class 52 Rating, Deduct	-67.67			
		For Class 54 Rating, Add	46.14			
		For Class 55 Rating, Add	102.55			
40 05 19 00-1055	EA	4" Flanged x Plain End (FxE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	886.14		165.09	
		For Class 52 Rating, Deduct	-69.96			
		For Class 54 Rating, Add	47.70			
		For Class 55 Rating, Add	106.02			
40 05 19 00-1056	EA	4" Flanged x Plain End (FxE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	909.99		167.11	
		For Class 52 Rating, Deduct	-72.25			
		For Class 54 Rating, Add	49.26			
		For Class 55 Rating, Add	109.49			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1057	EA		4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	933.83	169.12
			For Class 52 Rating, Deduct	-74.54	
			For Class 54 Rating, Add	50.82	
			For Class 55 Rating, Add	112.96	
40 05 19 00-1058	EA		4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	957.67	171.11
			For Class 52 Rating, Deduct	-76.82	
			For Class 54 Rating, Add	52.38	
			For Class 55 Rating, Add	116.42	
40 05 19 00-1059	EA		4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	981.51	173.13
			For Class 52 Rating, Deduct	-79.11	
			For Class 54 Rating, Add	53.94	
			For Class 55 Rating, Add	119.89	
40 05 19 00-1060	EA		4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,005.36	175.14
			For Class 52 Rating, Deduct	-81.40	
			For Class 54 Rating, Add	55.50	
			For Class 55 Rating, Add	123.36	
40 05 19 00-1061	EA		4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,029.20	177.16
			For Class 52 Rating, Deduct	-83.69	
			For Class 54 Rating, Add	57.06	
			For Class 55 Rating, Add	126.83	
40 05 19 00-1062	EA		4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,053.04	179.15
			For Class 52 Rating, Deduct	-85.98	
			For Class 54 Rating, Add	58.62	
			For Class 55 Rating, Add	130.29	
40 05 19 00-1063	EA		4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,076.89	181.16
			For Class 52 Rating, Deduct	-88.26	
			For Class 54 Rating, Add	60.18	
			For Class 55 Rating, Add	133.76	
40 05 19 00-1064	EA		4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,100.73	183.18
			For Class 52 Rating, Deduct	-90.55	
			For Class 54 Rating, Add	61.74	
			For Class 55 Rating, Add	137.23	
40 05 19 00-1065	EA		4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,124.58	185.17
			For Class 52 Rating, Deduct	-92.84	
			For Class 54 Rating, Add	63.30	
			For Class 55 Rating, Add	140.69	
40 05 19 00-1066	EA		4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,148.42	187.19
			For Class 52 Rating, Deduct	-95.13	
			For Class 54 Rating, Add	64.86	
			For Class 55 Rating, Add	144.16	
40 05 19 00-1067	EA		4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,172.26	189.20
			For Class 52 Rating, Deduct	-97.42	
			For Class 54 Rating, Add	66.42	
			For Class 55 Rating, Add	147.63	
40 05 19 00-1068	EA		4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,196.10	191.21
			For Class 52 Rating, Deduct	-99.70	
			For Class 54 Rating, Add	67.98	
			For Class 55 Rating, Add	151.10	
40 05 19 00-1069			6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1070	EA		6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	363.91	144.61
			For Class 52 Rating, Deduct	-15.93	
			For Class 54 Rating, Add	10.86	
			For Class 55 Rating, Add	24.14	
40 05 19 00-1071	EA		6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	392.55	146.63
			For Class 52 Rating, Deduct	-18.74	
			For Class 54 Rating, Add	12.78	
			For Class 55 Rating, Add	28.41	
40 05 19 00-1072	EA		6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	421.19	148.62
			For Class 52 Rating, Deduct	-21.56	
			For Class 54 Rating, Add	14.70	
			For Class 55 Rating, Add	32.67	
40 05 19 00-1073	EA		6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	449.83	150.63
			For Class 52 Rating, Deduct	-24.38	
			For Class 54 Rating, Add	16.62	
			For Class 55 Rating, Add	36.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1074	EA		6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	478.48	152.65
			For Class 52 Rating, Deduct	-27.19	
			For Class 54 Rating, Add	18.54	
			For Class 55 Rating, Add	41.21	
40 05 19 00-1075	EA		6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	507.12	154.65
			For Class 52 Rating, Deduct	-30.01	
			For Class 54 Rating, Add	20.46	
			For Class 55 Rating, Add	45.48	
40 05 19 00-1076	EA		6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	535.76	156.66
			For Class 52 Rating, Deduct	-32.82	
			For Class 54 Rating, Add	22.38	
			For Class 55 Rating, Add	49.74	
40 05 19 00-1077	EA		6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	564.40	158.67
			For Class 52 Rating, Deduct	-35.64	
			For Class 54 Rating, Add	24.30	
			For Class 55 Rating, Add	54.01	
40 05 19 00-1078	EA		6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	593.06	160.68
			For Class 52 Rating, Deduct	-38.46	
			For Class 54 Rating, Add	26.22	
			For Class 55 Rating, Add	58.28	
40 05 19 00-1079	EA		6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	621.70	162.68
			For Class 52 Rating, Deduct	-41.27	
			For Class 54 Rating, Add	28.14	
			For Class 55 Rating, Add	62.55	
40 05 19 00-1080	EA		6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	650.34	164.69
			For Class 52 Rating, Deduct	-44.09	
			For Class 54 Rating, Add	30.06	
			For Class 55 Rating, Add	66.81	
40 05 19 00-1081	EA		6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	678.98	166.71
			For Class 52 Rating, Deduct	-46.90	
			For Class 54 Rating, Add	31.98	
			For Class 55 Rating, Add	71.08	
40 05 19 00-1082	EA		6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	707.63	168.71
			For Class 52 Rating, Deduct	-49.72	
			For Class 54 Rating, Add	33.90	
			For Class 55 Rating, Add	75.35	
40 05 19 00-1083	EA		6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	736.27	170.72
			For Class 52 Rating, Deduct	-52.54	
			For Class 54 Rating, Add	35.82	
			For Class 55 Rating, Add	79.62	
40 05 19 00-1084	EA		6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	764.91	172.73
			For Class 52 Rating, Deduct	-55.35	
			For Class 54 Rating, Add	37.74	
			For Class 55 Rating, Add	83.88	
40 05 19 00-1085	EA		6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	793.55	174.74
			For Class 52 Rating, Deduct	-58.17	
			For Class 54 Rating, Add	39.66	
			For Class 55 Rating, Add	88.15	
40 05 19 00-1086	EA		6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	822.20	176.74
			For Class 52 Rating, Deduct	-60.98	
			For Class 54 Rating, Add	41.58	
			For Class 55 Rating, Add	92.42	
40 05 19 00-1087	EA		6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	850.84	178.75
			For Class 52 Rating, Deduct	-63.80	
			For Class 54 Rating, Add	43.50	
			For Class 55 Rating, Add	96.69	
40 05 19 00-1088	EA		6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	879.48	180.76
			For Class 52 Rating, Deduct	-66.62	
			For Class 54 Rating, Add	45.42	
			For Class 55 Rating, Add	100.95	
40 05 19 00-1089	EA		6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	908.12	182.78
			For Class 52 Rating, Deduct	-69.43	
			For Class 54 Rating, Add	47.34	
			For Class 55 Rating, Add	105.22	
40 05 19 00-1090	EA		6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	936.76	184.77
			For Class 52 Rating, Deduct	-72.25	
			For Class 54 Rating, Add	49.26	
			For Class 55 Rating, Add	109.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1091	EA		6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	965.41	186.79
			For Class 52 Rating, Deduct	-75.06	
			For Class 54 Rating, Add	51.18	
			For Class 55 Rating, Add	113.76	
40 05 19 00-1092	EA		6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	994.06	188.80
			For Class 52 Rating, Deduct	-77.88	
			For Class 54 Rating, Add	53.10	
			For Class 55 Rating, Add	118.02	
40 05 19 00-1093	EA		6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,022.70	190.81
			For Class 52 Rating, Deduct	-80.70	
			For Class 54 Rating, Add	55.02	
			For Class 55 Rating, Add	122.29	
40 05 19 00-1094	EA		6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,051.34	192.81
			For Class 52 Rating, Deduct	-83.51	
			For Class 54 Rating, Add	56.94	
			For Class 55 Rating, Add	126.56	
40 05 19 00-1095	EA		6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,079.99	194.82
			For Class 52 Rating, Deduct	-86.33	
			For Class 54 Rating, Add	58.86	
			For Class 55 Rating, Add	130.83	
40 05 19 00-1096	EA		6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,108.63	196.84
			For Class 52 Rating, Deduct	-89.14	
			For Class 54 Rating, Add	60.78	
			For Class 55 Rating, Add	135.09	
40 05 19 00-1097	EA		6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,137.27	198.83
			For Class 52 Rating, Deduct	-91.96	
			For Class 54 Rating, Add	62.70	
			For Class 55 Rating, Add	139.36	
40 05 19 00-1098	EA		6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,165.91	200.85
			For Class 52 Rating, Deduct	-94.78	
			For Class 54 Rating, Add	64.62	
			For Class 55 Rating, Add	143.63	
40 05 19 00-1099	EA		6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,194.56	202.86
			For Class 52 Rating, Deduct	-97.59	
			For Class 54 Rating, Add	66.54	
			For Class 55 Rating, Add	147.90	
40 05 19 00-1100	EA		6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,223.20	204.86
			For Class 52 Rating, Deduct	-100.41	
			For Class 54 Rating, Add	68.46	
			For Class 55 Rating, Add	152.16	
40 05 19 00-1101	EA		6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,251.84	206.87
			For Class 52 Rating, Deduct	-103.22	
			For Class 54 Rating, Add	70.38	
			For Class 55 Rating, Add	156.43	
40 05 19 00-1102	EA		6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,280.48	208.88
			For Class 52 Rating, Deduct	-106.04	
			For Class 54 Rating, Add	72.30	
			For Class 55 Rating, Add	160.70	
40 05 19 00-1103	EA		6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,309.13	210.90
			For Class 52 Rating, Deduct	-108.86	
			For Class 54 Rating, Add	74.22	
			For Class 55 Rating, Add	164.97	
40 05 19 00-1104	EA		6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,337.77	212.89
			For Class 52 Rating, Deduct	-111.67	
			For Class 54 Rating, Add	76.14	
			For Class 55 Rating, Add	169.23	
40 05 19 00-1105	EA		6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,366.41	214.90
			For Class 52 Rating, Deduct	-114.49	
			For Class 54 Rating, Add	78.06	
			For Class 55 Rating, Add	173.50	
40 05 19 00-1106	EA		6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,395.05	216.92
			For Class 52 Rating, Deduct	-117.30	
			For Class 54 Rating, Add	79.98	
			For Class 55 Rating, Add	177.77	
40 05 19 00-1107	EA		6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,423.71	218.92
			For Class 52 Rating, Deduct	-120.12	
			For Class 54 Rating, Add	81.90	
			For Class 55 Rating, Add	182.04	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1108	EA	6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,452.35	220.93
		For Class 52 Rating, Deduct		-122.94	
		For Class 54 Rating, Add		83.82	
		For Class 55 Rating, Add		186.30	
40 05 19 00-1109 8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1110	EA	8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		490.36	184.77
		For Class 52 Rating, Deduct		-23.14	
		For Class 54 Rating, Add		15.78	
		For Class 55 Rating, Add		35.07	
40 05 19 00-1111	EA	8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		528.61	186.79
		For Class 52 Rating, Deduct		-27.02	
		For Class 54 Rating, Add		18.42	
		For Class 55 Rating, Add		40.94	
40 05 19 00-1112	EA	8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		566.86	188.80
		For Class 52 Rating, Deduct		-30.89	
		For Class 54 Rating, Add		21.06	
		For Class 55 Rating, Add		46.81	
40 05 19 00-1113	EA	8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		605.10	190.81
		For Class 52 Rating, Deduct		-34.76	
		For Class 54 Rating, Add		23.70	
		For Class 55 Rating, Add		52.68	
40 05 19 00-1114	EA	8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		643.34	192.81
		For Class 52 Rating, Deduct		-38.63	
		For Class 54 Rating, Add		26.34	
		For Class 55 Rating, Add		58.55	
40 05 19 00-1115	EA	8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		681.59	194.82
		For Class 52 Rating, Deduct		-42.50	
		For Class 54 Rating, Add		28.98	
		For Class 55 Rating, Add		64.41	
40 05 19 00-1116	EA	8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		719.83	196.84
		For Class 52 Rating, Deduct		-46.38	
		For Class 54 Rating, Add		31.62	
		For Class 55 Rating, Add		70.28	
40 05 19 00-1117	EA	8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		758.07	198.83
		For Class 52 Rating, Deduct		-50.25	
		For Class 54 Rating, Add		34.26	
		For Class 55 Rating, Add		76.15	
40 05 19 00-1118	EA	8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		796.31	200.85
		For Class 52 Rating, Deduct		-54.12	
		For Class 54 Rating, Add		36.90	
		For Class 55 Rating, Add		82.02	
40 05 19 00-1119	EA	8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		834.56	202.86
		For Class 52 Rating, Deduct		-57.99	
		For Class 54 Rating, Add		39.54	
		For Class 55 Rating, Add		87.88	
40 05 19 00-1120	EA	8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		872.80	204.86
		For Class 52 Rating, Deduct		-61.86	
		For Class 54 Rating, Add		42.18	
		For Class 55 Rating, Add		93.75	
40 05 19 00-1121	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		911.04	206.87
		For Class 52 Rating, Deduct		-65.74	
		For Class 54 Rating, Add		44.82	
		For Class 55 Rating, Add		99.62	
40 05 19 00-1122	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		949.28	208.88
		For Class 52 Rating, Deduct		-69.61	
		For Class 54 Rating, Add		47.46	
		For Class 55 Rating, Add		105.49	
40 05 19 00-1123	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		987.53	210.90
		For Class 52 Rating, Deduct		-73.48	
		For Class 54 Rating, Add		50.10	
		For Class 55 Rating, Add		111.36	
40 05 19 00-1124	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,025.77	212.89
		For Class 52 Rating, Deduct		-77.35	
		For Class 54 Rating, Add		52.74	
		For Class 55 Rating, Add		117.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1125	EA		8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,064.01	214.90
			For Class 52 Rating, Deduct	-81.22	
			For Class 54 Rating, Add	55.38	
			For Class 55 Rating, Add	123.09	
40 05 19 00-1126	EA		8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,102.25	216.92
			For Class 52 Rating, Deduct	-85.10	
			For Class 54 Rating, Add	58.02	
			For Class 55 Rating, Add	128.96	
40 05 19 00-1127	EA		8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,140.51	218.92
			For Class 52 Rating, Deduct	-88.97	
			For Class 54 Rating, Add	60.66	
			For Class 55 Rating, Add	134.83	
40 05 19 00-1128	EA		8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,178.75	220.93
			For Class 52 Rating, Deduct	-92.84	
			For Class 54 Rating, Add	63.30	
			For Class 55 Rating, Add	140.69	
40 05 19 00-1129	EA		8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,216.99	222.94
			For Class 52 Rating, Deduct	-96.71	
			For Class 54 Rating, Add	65.94	
			For Class 55 Rating, Add	146.56	
40 05 19 00-1130	EA		8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,255.23	224.95
			For Class 52 Rating, Deduct	-100.58	
			For Class 54 Rating, Add	68.58	
			For Class 55 Rating, Add	152.43	
40 05 19 00-1131	EA		8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,293.48	226.96
			For Class 52 Rating, Deduct	-104.46	
			For Class 54 Rating, Add	71.22	
			For Class 55 Rating, Add	158.30	
40 05 19 00-1132	EA		8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,331.72	228.96
			For Class 52 Rating, Deduct	-108.33	
			For Class 54 Rating, Add	73.86	
			For Class 55 Rating, Add	164.17	
40 05 19 00-1133	EA		8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,369.96	230.98
			For Class 52 Rating, Deduct	-112.20	
			For Class 54 Rating, Add	76.50	
			For Class 55 Rating, Add	170.03	
40 05 19 00-1134	EA		8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,408.20	232.99
			For Class 52 Rating, Deduct	-116.07	
			For Class 54 Rating, Add	79.14	
			For Class 55 Rating, Add	175.90	
40 05 19 00-1135	EA		8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,446.45	234.99
			For Class 52 Rating, Deduct	-119.94	
			For Class 54 Rating, Add	81.78	
			For Class 55 Rating, Add	181.77	
40 05 19 00-1136	EA		8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,484.69	237.00
			For Class 52 Rating, Deduct	-123.82	
			For Class 54 Rating, Add	84.42	
			For Class 55 Rating, Add	187.64	
40 05 19 00-1137	EA		8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,522.93	239.01
			For Class 52 Rating, Deduct	-127.69	
			For Class 54 Rating, Add	87.06	
			For Class 55 Rating, Add	193.51	
40 05 19 00-1138	EA		8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,561.17	241.02
			For Class 52 Rating, Deduct	-131.56	
			For Class 54 Rating, Add	89.70	
			For Class 55 Rating, Add	199.37	
40 05 19 00-1139	EA		8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,599.42	243.02
			For Class 52 Rating, Deduct	-135.43	
			For Class 54 Rating, Add	92.34	
			For Class 55 Rating, Add	205.24	
40 05 19 00-1140	EA		8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,637.66	245.03
			For Class 52 Rating, Deduct	-139.30	
			For Class 54 Rating, Add	94.98	
			For Class 55 Rating, Add	211.11	
40 05 19 00-1141	EA		8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,675.91	247.05
			For Class 52 Rating, Deduct	-143.18	
			For Class 54 Rating, Add	97.62	
			For Class 55 Rating, Add	216.98	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1142	EA		8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,714.15	249.04
			For Class 52 Rating, Deduct	-147.05	
			For Class 54 Rating, Add	100.26	
			For Class 55 Rating, Add	222.84	
40 05 19 00-1143	EA		8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,752.40	251.06
			For Class 52 Rating, Deduct	-150.92	
			For Class 54 Rating, Add	102.90	
			For Class 55 Rating, Add	228.71	
40 05 19 00-1144	EA		8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,790.64	253.07
			For Class 52 Rating, Deduct	-154.79	
			For Class 54 Rating, Add	105.54	
			For Class 55 Rating, Add	234.58	
40 05 19 00-1145	EA		8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,828.88	255.08
			For Class 52 Rating, Deduct	-158.66	
			For Class 54 Rating, Add	108.18	
			For Class 55 Rating, Add	240.45	
40 05 19 00-1146	EA		8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,867.12	257.08
			For Class 52 Rating, Deduct	-162.54	
			For Class 54 Rating, Add	110.82	
			For Class 55 Rating, Add	246.32	
40 05 19 00-1147	EA		8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,905.37	259.09
			For Class 52 Rating, Deduct	-166.41	
			For Class 54 Rating, Add	113.46	
			For Class 55 Rating, Add	252.18	
40 05 19 00-1148	EA		8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,943.61	261.11
			For Class 52 Rating, Deduct	-170.28	
			For Class 54 Rating, Add	116.10	
			For Class 55 Rating, Add	258.05	
40 05 19 00-1149			10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1150	EA		10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	612.03	224.95
			For Class 52 Rating, Deduct	-29.83	
			For Class 54 Rating, Add	20.34	
			For Class 55 Rating, Add	45.21	
40 05 19 00-1151	EA		10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	661.48	226.96
			For Class 52 Rating, Deduct	-34.94	
			For Class 54 Rating, Add	23.82	
			For Class 55 Rating, Add	52.94	
40 05 19 00-1152	EA		10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	710.92	228.96
			For Class 52 Rating, Deduct	-40.04	
			For Class 54 Rating, Add	27.30	
			For Class 55 Rating, Add	60.68	
40 05 19 00-1153	EA		10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	760.36	230.98
			For Class 52 Rating, Deduct	-45.14	
			For Class 54 Rating, Add	30.78	
			For Class 55 Rating, Add	68.41	
40 05 19 00-1154	EA		10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	809.80	232.99
			For Class 52 Rating, Deduct	-50.25	
			For Class 54 Rating, Add	34.26	
			For Class 55 Rating, Add	76.15	
40 05 19 00-1155	EA		10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	859.25	234.99
			For Class 52 Rating, Deduct	-55.35	
			For Class 54 Rating, Add	37.74	
			For Class 55 Rating, Add	83.88	
40 05 19 00-1156	EA		10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	908.69	237.00
			For Class 52 Rating, Deduct	-60.46	
			For Class 54 Rating, Add	41.22	
			For Class 55 Rating, Add	91.62	
40 05 19 00-1157	EA		10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	958.13	239.01
			For Class 52 Rating, Deduct	-65.56	
			For Class 54 Rating, Add	44.70	
			For Class 55 Rating, Add	99.35	
40 05 19 00-1158	EA		10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,007.57	241.02
			For Class 52 Rating, Deduct	-70.66	
			For Class 54 Rating, Add	48.18	
			For Class 55 Rating, Add	107.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1159	EA	10"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,057.02	243.02
			For Class 52 Rating, Deduct	-75.77	
			For Class 54 Rating, Add	51.66	
			For Class 55 Rating, Add	114.82	
40 05 19 00-1160	EA	10"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,106.46	245.03
			For Class 52 Rating, Deduct	-80.87	
			For Class 54 Rating, Add	55.14	
			For Class 55 Rating, Add	122.56	
40 05 19 00-1161	EA	10"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,155.91	247.05
			For Class 52 Rating, Deduct	-85.98	
			For Class 54 Rating, Add	58.62	
			For Class 55 Rating, Add	130.29	
40 05 19 00-1162	EA	10"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,205.35	249.04
			For Class 52 Rating, Deduct	-91.08	
			For Class 54 Rating, Add	62.10	
			For Class 55 Rating, Add	138.03	
40 05 19 00-1163	EA	10"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,254.80	251.06
			For Class 52 Rating, Deduct	-96.18	
			For Class 54 Rating, Add	65.58	
			For Class 55 Rating, Add	145.76	
40 05 19 00-1164	EA	10"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,304.24	253.07
			For Class 52 Rating, Deduct	-101.29	
			For Class 54 Rating, Add	69.06	
			For Class 55 Rating, Add	153.50	
40 05 19 00-1165	EA	10"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,353.68	255.08
			For Class 52 Rating, Deduct	-106.39	
			For Class 54 Rating, Add	72.54	
			For Class 55 Rating, Add	161.23	
40 05 19 00-1166	EA	10"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,403.12	257.08
			For Class 52 Rating, Deduct	-111.50	
			For Class 54 Rating, Add	76.02	
			For Class 55 Rating, Add	168.97	
40 05 19 00-1167	EA	10"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,452.57	259.09
			For Class 52 Rating, Deduct	-116.60	
			For Class 54 Rating, Add	79.50	
			For Class 55 Rating, Add	176.70	
40 05 19 00-1168	EA	10"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,502.01	261.11
			For Class 52 Rating, Deduct	-121.70	
			For Class 54 Rating, Add	82.98	
			For Class 55 Rating, Add	184.44	
40 05 19 00-1169	EA	10"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,551.45	263.10
			For Class 52 Rating, Deduct	-126.81	
			For Class 54 Rating, Add	86.46	
			For Class 55 Rating, Add	192.17	
40 05 19 00-1170	EA	10"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,600.89	265.12
			For Class 52 Rating, Deduct	-131.91	
			For Class 54 Rating, Add	89.94	
			For Class 55 Rating, Add	199.91	
40 05 19 00-1171	EA	10"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,650.34	267.13
			For Class 52 Rating, Deduct	-137.02	
			For Class 54 Rating, Add	93.42	
			For Class 55 Rating, Add	207.64	
40 05 19 00-1172	EA	10"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,699.78	269.13
			For Class 52 Rating, Deduct	-142.12	
			For Class 54 Rating, Add	96.90	
			For Class 55 Rating, Add	215.38	
40 05 19 00-1173	EA	10"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,749.22	271.14
			For Class 52 Rating, Deduct	-147.22	
			For Class 54 Rating, Add	100.38	
			For Class 55 Rating, Add	223.11	
40 05 19 00-1174	EA	10"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,798.66	273.15
			For Class 52 Rating, Deduct	-152.33	
			For Class 54 Rating, Add	103.86	
			For Class 55 Rating, Add	230.85	
40 05 19 00-1175	EA	10"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,848.11	275.17
			For Class 52 Rating, Deduct	-157.43	
			For Class 54 Rating, Add	107.34	
			For Class 55 Rating, Add	238.58	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1176	EA	10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,897.56	277.17
		For Class 52 Rating, Deduct		-162.54	
		For Class 54 Rating, Add		110.82	
		For Class 55 Rating, Add		246.32	
40 05 19 00-1177	EA	10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,947.00	279.17
		For Class 52 Rating, Deduct		-167.64	
		For Class 54 Rating, Add		114.30	
		For Class 55 Rating, Add		254.05	
40 05 19 00-1178	EA	10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,996.44	281.19
		For Class 52 Rating, Deduct		-172.74	
		For Class 54 Rating, Add		117.78	
		For Class 55 Rating, Add		261.79	
40 05 19 00-1179	EA	10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,045.88	283.20
		For Class 52 Rating, Deduct		-177.85	
		For Class 54 Rating, Add		121.26	
		For Class 55 Rating, Add		269.52	
40 05 19 00-1180	EA	10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,095.33	285.20
		For Class 52 Rating, Deduct		-182.95	
		For Class 54 Rating, Add		124.74	
		For Class 55 Rating, Add		277.26	
40 05 19 00-1181	EA	10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,144.77	287.21
		For Class 52 Rating, Deduct		-188.06	
		For Class 54 Rating, Add		128.22	
		For Class 55 Rating, Add		284.99	
40 05 19 00-1182	EA	10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,194.21	289.22
		For Class 52 Rating, Deduct		-193.16	
		For Class 54 Rating, Add		131.70	
		For Class 55 Rating, Add		292.73	
40 05 19 00-1183	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,243.65	291.23
		For Class 52 Rating, Deduct		-198.26	
		For Class 54 Rating, Add		135.18	
		For Class 55 Rating, Add		300.46	
40 05 19 00-1184	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,293.10	293.23
		For Class 52 Rating, Deduct		-203.37	
		For Class 54 Rating, Add		138.66	
		For Class 55 Rating, Add		308.19	
40 05 19 00-1185	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,342.54	295.25
		For Class 52 Rating, Deduct		-208.47	
		For Class 54 Rating, Add		142.14	
		For Class 55 Rating, Add		315.93	
40 05 19 00-1186	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,391.98	297.26
		For Class 52 Rating, Deduct		-213.58	
		For Class 54 Rating, Add		145.62	
		For Class 55 Rating, Add		323.66	
40 05 19 00-1187	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,441.42	299.25
		For Class 52 Rating, Deduct		-218.68	
		For Class 54 Rating, Add		149.10	
		For Class 55 Rating, Add		331.40	
40 05 19 00-1188	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,490.87	301.27
		For Class 52 Rating, Deduct		-223.78	
		For Class 54 Rating, Add		152.58	
		For Class 55 Rating, Add		339.13	
40 05 19 00-1189		12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)			
40 05 19 00-1190	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		787.64	281.19
		For Class 52 Rating, Deduct		-39.78	
		For Class 54 Rating, Add		27.12	
		For Class 55 Rating, Add		60.28	
40 05 19 00-1191	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		849.08	283.20
		For Class 52 Rating, Deduct		-46.20	
		For Class 54 Rating, Add		31.50	
		For Class 55 Rating, Add		70.01	
40 05 19 00-1192	EA	12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		910.53	285.20
		For Class 52 Rating, Deduct		-52.62	
		For Class 54 Rating, Add		35.88	
		For Class 55 Rating, Add		79.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1193	EA	12"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	971.97	287.21
			For Class 52 Rating, Deduct	-59.05	
			For Class 54 Rating, Add	40.26	
			For Class 55 Rating, Add	89.48	
40 05 19 00-1194	EA	12"	Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,033.41	289.22
			For Class 52 Rating, Deduct	-65.47	
			For Class 54 Rating, Add	44.64	
			For Class 55 Rating, Add	99.22	
40 05 19 00-1195	EA	12"	Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,094.85	291.23
			For Class 52 Rating, Deduct	-71.90	
			For Class 54 Rating, Add	49.02	
			For Class 55 Rating, Add	108.96	
40 05 19 00-1196	EA	12"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,156.30	293.23
			For Class 52 Rating, Deduct	-78.32	
			For Class 54 Rating, Add	53.40	
			For Class 55 Rating, Add	118.69	
40 05 19 00-1197	EA	12"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,217.74	295.25
			For Class 52 Rating, Deduct	-84.74	
			For Class 54 Rating, Add	57.78	
			For Class 55 Rating, Add	128.43	
40 05 19 00-1198	EA	12"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,279.18	297.26
			For Class 52 Rating, Deduct	-91.17	
			For Class 54 Rating, Add	62.16	
			For Class 55 Rating, Add	138.16	
40 05 19 00-1199	EA	12"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,340.62	299.25
			For Class 52 Rating, Deduct	-97.59	
			For Class 54 Rating, Add	66.54	
			For Class 55 Rating, Add	147.90	
40 05 19 00-1200	EA	12"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,402.07	301.27
			For Class 52 Rating, Deduct	-104.02	
			For Class 54 Rating, Add	70.92	
			For Class 55 Rating, Add	157.63	
40 05 19 00-1201	EA	12"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,463.51	303.28
			For Class 52 Rating, Deduct	-110.44	
			For Class 54 Rating, Add	75.30	
			For Class 55 Rating, Add	167.37	
40 05 19 00-1202	EA	12"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,524.96	305.29
			For Class 52 Rating, Deduct	-116.86	
			For Class 54 Rating, Add	79.68	
			For Class 55 Rating, Add	177.10	
40 05 19 00-1203	EA	12"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,586.40	307.29
			For Class 52 Rating, Deduct	-123.29	
			For Class 54 Rating, Add	84.06	
			For Class 55 Rating, Add	186.84	
40 05 19 00-1204	EA	12"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,647.85	309.30
			For Class 52 Rating, Deduct	-129.71	
			For Class 54 Rating, Add	88.44	
			For Class 55 Rating, Add	196.57	
40 05 19 00-1205	EA	12"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,709.29	311.32
			For Class 52 Rating, Deduct	-136.14	
			For Class 54 Rating, Add	92.82	
			For Class 55 Rating, Add	206.31	
40 05 19 00-1206	EA	12"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,770.73	313.32
			For Class 52 Rating, Deduct	-142.56	
			For Class 54 Rating, Add	97.20	
			For Class 55 Rating, Add	216.04	
40 05 19 00-1207	EA	12"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,832.17	315.33
			For Class 52 Rating, Deduct	-148.98	
			For Class 54 Rating, Add	101.58	
			For Class 55 Rating, Add	225.78	
40 05 19 00-1208	EA	12"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,893.62	317.34
			For Class 52 Rating, Deduct	-155.41	
			For Class 54 Rating, Add	105.96	
			For Class 55 Rating, Add	235.51	
40 05 19 00-1209	EA	12"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,955.06	319.35
			For Class 52 Rating, Deduct	-161.83	
			For Class 54 Rating, Add	110.34	
			For Class 55 Rating, Add	245.25	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1210	EA		12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,016.50	321.35
			For Class 52 Rating, Deduct	-168.26	
			For Class 54 Rating, Add	114.72	
			For Class 55 Rating, Add	254.98	
40 05 19 00-1211	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,077.94	323.36
			For Class 52 Rating, Deduct	-174.68	
			For Class 54 Rating, Add	119.10	
			For Class 55 Rating, Add	264.72	
40 05 19 00-1212	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,139.39	325.38
			For Class 52 Rating, Deduct	-181.10	
			For Class 54 Rating, Add	123.48	
			For Class 55 Rating, Add	274.45	
40 05 19 00-1213	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,200.83	327.38
			For Class 52 Rating, Deduct	-187.53	
			For Class 54 Rating, Add	127.86	
			For Class 55 Rating, Add	284.19	
40 05 19 00-1214	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,262.27	329.39
			For Class 52 Rating, Deduct	-193.95	
			For Class 54 Rating, Add	132.24	
			For Class 55 Rating, Add	293.93	
40 05 19 00-1215	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,323.71	331.40
			For Class 52 Rating, Deduct	-200.38	
			For Class 54 Rating, Add	136.62	
			For Class 55 Rating, Add	303.66	
40 05 19 00-1216	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,385.17	333.41
			For Class 52 Rating, Deduct	-206.80	
			For Class 54 Rating, Add	141.00	
			For Class 55 Rating, Add	313.40	
40 05 19 00-1217	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,446.61	335.41
			For Class 52 Rating, Deduct	-213.22	
			For Class 54 Rating, Add	145.38	
			For Class 55 Rating, Add	323.13	
40 05 19 00-1218	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,508.05	337.42
			For Class 52 Rating, Deduct	-219.65	
			For Class 54 Rating, Add	149.76	
			For Class 55 Rating, Add	332.87	
40 05 19 00-1219	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,569.49	339.44
			For Class 52 Rating, Deduct	-226.07	
			For Class 54 Rating, Add	154.14	
			For Class 55 Rating, Add	342.60	
40 05 19 00-1220	EA		12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,630.94	341.44
			For Class 52 Rating, Deduct	-232.50	
			For Class 54 Rating, Add	158.52	
			For Class 55 Rating, Add	352.34	
40 05 19 00-1221	EA		12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,692.38	343.44
			For Class 52 Rating, Deduct	-238.92	
			For Class 54 Rating, Add	162.90	
			For Class 55 Rating, Add	362.07	
40 05 19 00-1222	EA		12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,753.82	345.46
			For Class 52 Rating, Deduct	-245.34	
			For Class 54 Rating, Add	167.28	
			For Class 55 Rating, Add	371.81	
40 05 19 00-1223	EA		12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,815.26	347.47
			For Class 52 Rating, Deduct	-251.77	
			For Class 54 Rating, Add	171.66	
			For Class 55 Rating, Add	381.54	
40 05 19 00-1224	EA		12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,876.71	349.48
			For Class 52 Rating, Deduct	-258.19	
			For Class 54 Rating, Add	176.04	
			For Class 55 Rating, Add	391.28	
40 05 19 00-1225	EA		12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,938.15	351.48
			For Class 52 Rating, Deduct	-264.62	
			For Class 54 Rating, Add	180.42	
			For Class 55 Rating, Add	401.01	
40 05 19 00-1226	EA		12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,999.59	353.49
			For Class 52 Rating, Deduct	-271.04	
			For Class 54 Rating, Add	184.80	
			For Class 55 Rating, Add	410.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1227	EA		12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,061.03	355.50
			For Class 52 Rating, Deduct	-277.46	
			For Class 54 Rating, Add	189.18	
			For Class 55 Rating, Add	420.48	
40 05 19 00-1228	EA		12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,122.48	357.50
			For Class 52 Rating, Deduct	-283.89	
			For Class 54 Rating, Add	193.56	
			For Class 55 Rating, Add	430.22	
40 05 19 00-1229			14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1230	EA		14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,027.25	337.42
			For Class 52 Rating, Deduct	-56.76	
			For Class 54 Rating, Add	38.70	
			For Class 55 Rating, Add	86.02	
40 05 19 00-1231	EA		14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,101.49	339.44
			For Class 52 Rating, Deduct	-64.59	
			For Class 54 Rating, Add	44.04	
			For Class 55 Rating, Add	97.89	
40 05 19 00-1232	EA		14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,175.74	341.44
			For Class 52 Rating, Deduct	-72.42	
			For Class 54 Rating, Add	49.38	
			For Class 55 Rating, Add	109.76	
40 05 19 00-1233	EA		14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,249.98	343.44
			For Class 52 Rating, Deduct	-80.26	
			For Class 54 Rating, Add	54.72	
			For Class 55 Rating, Add	121.62	
40 05 19 00-1234	EA		14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,324.22	345.46
			For Class 52 Rating, Deduct	-88.09	
			For Class 54 Rating, Add	60.06	
			For Class 55 Rating, Add	133.49	
40 05 19 00-1235	EA		14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,398.46	347.47
			For Class 52 Rating, Deduct	-95.92	
			For Class 54 Rating, Add	65.40	
			For Class 55 Rating, Add	145.36	
40 05 19 00-1236	EA		14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,472.71	349.48
			For Class 52 Rating, Deduct	-103.75	
			For Class 54 Rating, Add	70.74	
			For Class 55 Rating, Add	157.23	
40 05 19 00-1237	EA		14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,546.95	351.48
			For Class 52 Rating, Deduct	-111.58	
			For Class 54 Rating, Add	76.08	
			For Class 55 Rating, Add	169.10	
40 05 19 00-1238	EA		14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,621.19	353.49
			For Class 52 Rating, Deduct	-119.42	
			For Class 54 Rating, Add	81.42	
			For Class 55 Rating, Add	180.97	
40 05 19 00-1239	EA		14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,695.43	355.50
			For Class 52 Rating, Deduct	-127.25	
			For Class 54 Rating, Add	86.76	
			For Class 55 Rating, Add	192.84	
40 05 19 00-1240	EA		14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,769.68	357.50
			For Class 52 Rating, Deduct	-135.08	
			For Class 54 Rating, Add	92.10	
			For Class 55 Rating, Add	204.71	
40 05 19 00-1241	EA		14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,843.92	359.52
			For Class 52 Rating, Deduct	-142.91	
			For Class 54 Rating, Add	97.44	
			For Class 55 Rating, Add	216.58	
40 05 19 00-1242	EA		14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,918.16	361.53
			For Class 52 Rating, Deduct	-150.74	
			For Class 54 Rating, Add	102.78	
			For Class 55 Rating, Add	228.45	
40 05 19 00-1243	EA		14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,992.41	363.53
			For Class 52 Rating, Deduct	-158.58	
			For Class 54 Rating, Add	108.12	
			For Class 55 Rating, Add	240.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1244	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,066.66	365.54
			For Class 52 Rating, Deduct	-166.41	
			For Class 54 Rating, Add	113.46	
			For Class 55 Rating, Add	252.18	
40 05 19 00-1245	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,140.90	367.55
			For Class 52 Rating, Deduct	-174.24	
			For Class 54 Rating, Add	118.80	
			For Class 55 Rating, Add	264.05	
40 05 19 00-1246	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,215.14	369.56
			For Class 52 Rating, Deduct	-182.07	
			For Class 54 Rating, Add	124.14	
			For Class 55 Rating, Add	275.92	
40 05 19 00-1247	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,289.38	371.56
			For Class 52 Rating, Deduct	-189.90	
			For Class 54 Rating, Add	129.48	
			For Class 55 Rating, Add	287.79	
40 05 19 00-1248	EA		14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,363.62	373.57
			For Class 52 Rating, Deduct	-197.74	
			For Class 54 Rating, Add	134.82	
			For Class 55 Rating, Add	299.66	
40 05 19 00-1249	EA		14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,437.87	375.59
			For Class 52 Rating, Deduct	-205.57	
			For Class 54 Rating, Add	140.16	
			For Class 55 Rating, Add	311.53	
40 05 19 00-1250	EA		14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,512.11	377.59
			For Class 52 Rating, Deduct	-213.40	
			For Class 54 Rating, Add	145.50	
			For Class 55 Rating, Add	323.40	
40 05 19 00-1251	EA		14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,586.35	379.60
			For Class 52 Rating, Deduct	-221.23	
			For Class 54 Rating, Add	150.84	
			For Class 55 Rating, Add	335.27	
40 05 19 00-1252	EA		14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,660.59	381.61
			For Class 52 Rating, Deduct	-229.06	
			For Class 54 Rating, Add	156.18	
			For Class 55 Rating, Add	347.14	
40 05 19 00-1253	EA		14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,734.84	383.62
			For Class 52 Rating, Deduct	-236.90	
			For Class 54 Rating, Add	161.52	
			For Class 55 Rating, Add	359.01	
40 05 19 00-1254	EA		14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,809.08	385.62
			For Class 52 Rating, Deduct	-244.73	
			For Class 54 Rating, Add	166.86	
			For Class 55 Rating, Add	370.87	
40 05 19 00-1255	EA		14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,883.32	387.63
			For Class 52 Rating, Deduct	-252.56	
			For Class 54 Rating, Add	172.20	
			For Class 55 Rating, Add	382.74	
40 05 19 00-1256	EA		14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,957.56	389.65
			For Class 52 Rating, Deduct	-260.39	
			For Class 54 Rating, Add	177.54	
			For Class 55 Rating, Add	394.61	
40 05 19 00-1257	EA		14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,031.82	391.65
			For Class 52 Rating, Deduct	-268.22	
			For Class 54 Rating, Add	182.88	
			For Class 55 Rating, Add	406.48	
40 05 19 00-1258	EA		14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,106.06	393.66
			For Class 52 Rating, Deduct	-276.06	
			For Class 54 Rating, Add	188.22	
			For Class 55 Rating, Add	418.35	
40 05 19 00-1259	EA		14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,180.30	395.67
			For Class 52 Rating, Deduct	-283.89	
			For Class 54 Rating, Add	193.56	
			For Class 55 Rating, Add	430.22	
40 05 19 00-1260	EA		14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,254.54	397.68
			For Class 52 Rating, Deduct	-291.72	
			For Class 54 Rating, Add	198.90	
			For Class 55 Rating, Add	442.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1261	EA		14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,328.79	399.69
			For Class 52 Rating, Deduct.....	-299.55	
			For Class 54 Rating, Add.....	204.24	
			For Class 55 Rating, Add.....	453.96	
40 05 19 00-1262	EA		14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,403.03	401.69
			For Class 52 Rating, Deduct.....	-307.38	
			For Class 54 Rating, Add.....	209.58	
			For Class 55 Rating, Add.....	465.83	
40 05 19 00-1263	EA		14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,477.27	403.71
			For Class 52 Rating, Deduct.....	-315.22	
			For Class 54 Rating, Add.....	214.92	
			For Class 55 Rating, Add.....	477.70	
40 05 19 00-1264	EA		14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,551.51	405.71
			For Class 52 Rating, Deduct.....	-323.05	
			For Class 54 Rating, Add.....	220.26	
			For Class 55 Rating, Add.....	489.56	
40 05 19 00-1265	EA		14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,625.76	407.71
			For Class 52 Rating, Deduct.....	-330.88	
			For Class 54 Rating, Add.....	225.60	
			For Class 55 Rating, Add.....	501.43	
40 05 19 00-1266	EA		14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,700.00	409.73
			For Class 52 Rating, Deduct.....	-338.71	
			For Class 54 Rating, Add.....	230.94	
			For Class 55 Rating, Add.....	513.30	
40 05 19 00-1267	EA		14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,774.24	411.74
			For Class 52 Rating, Deduct.....	-346.54	
			For Class 54 Rating, Add.....	236.28	
			For Class 55 Rating, Add.....	525.17	
40 05 19 00-1268			16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1269	EA		16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,194.68	385.62
			For Class 52 Rating, Deduct.....	-67.14	
			For Class 54 Rating, Add.....	45.78	
			For Class 55 Rating, Add.....	101.75	
40 05 19 00-1270	EA		16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,280.92	387.63
			For Class 52 Rating, Deduct.....	-76.30	
			For Class 54 Rating, Add.....	52.02	
			For Class 55 Rating, Add.....	115.62	
40 05 19 00-1271	EA		16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,367.16	389.65
			For Class 52 Rating, Deduct.....	-85.45	
			For Class 54 Rating, Add.....	58.26	
			For Class 55 Rating, Add.....	129.49	
40 05 19 00-1272	EA		16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,453.42	391.65
			For Class 52 Rating, Deduct.....	-94.60	
			For Class 54 Rating, Add.....	64.50	
			For Class 55 Rating, Add.....	143.36	
40 05 19 00-1273	EA		16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,539.66	393.66
			For Class 52 Rating, Deduct.....	-103.75	
			For Class 54 Rating, Add.....	70.74	
			For Class 55 Rating, Add.....	157.23	
40 05 19 00-1274	EA		16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,625.90	395.67
			For Class 52 Rating, Deduct.....	-112.90	
			For Class 54 Rating, Add.....	76.98	
			For Class 55 Rating, Add.....	171.10	
40 05 19 00-1275	EA		16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,712.14	397.68
			For Class 52 Rating, Deduct.....	-122.06	
			For Class 54 Rating, Add.....	83.22	
			For Class 55 Rating, Add.....	184.97	
40 05 19 00-1276	EA		16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,798.39	399.69
			For Class 52 Rating, Deduct.....	-131.21	
			For Class 54 Rating, Add.....	89.46	
			For Class 55 Rating, Add.....	198.84	
40 05 19 00-1277	EA		16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,884.63	401.69
			For Class 52 Rating, Deduct.....	-140.36	
			For Class 54 Rating, Add.....	95.70	
			For Class 55 Rating, Add.....	212.71	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1278	EA		16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,970.87	403.71
			For Class 52 Rating, Deduct	-149.51	
			For Class 54 Rating, Add	101.94	
			For Class 55 Rating, Add	226.58	
40 05 19 00-1279	EA		16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,057.11	405.71
			For Class 52 Rating, Deduct	-158.66	
			For Class 54 Rating, Add	108.18	
			For Class 55 Rating, Add	240.45	
40 05 19 00-1280	EA		16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,143.36	407.71
			For Class 52 Rating, Deduct	-167.82	
			For Class 54 Rating, Add	114.42	
			For Class 55 Rating, Add	254.32	
40 05 19 00-1281	EA		16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,229.60	409.73
			For Class 52 Rating, Deduct	-176.97	
			For Class 54 Rating, Add	120.66	
			For Class 55 Rating, Add	268.19	
40 05 19 00-1282	EA		16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,315.84	411.74
			For Class 52 Rating, Deduct	-186.12	
			For Class 54 Rating, Add	126.90	
			For Class 55 Rating, Add	282.06	
40 05 19 00-1283	EA		16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,402.08	413.75
			For Class 52 Rating, Deduct	-195.27	
			For Class 54 Rating, Add	133.14	
			For Class 55 Rating, Add	295.93	
40 05 19 00-1284	EA		16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,488.33	415.75
			For Class 52 Rating, Deduct	-204.42	
			For Class 54 Rating, Add	139.38	
			For Class 55 Rating, Add	309.80	
40 05 19 00-1285	EA		16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,574.57	417.76
			For Class 52 Rating, Deduct	-213.58	
			For Class 54 Rating, Add	145.62	
			For Class 55 Rating, Add	323.66	
40 05 19 00-1286	EA		16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,660.81	419.77
			For Class 52 Rating, Deduct	-222.73	
			For Class 54 Rating, Add	151.86	
			For Class 55 Rating, Add	337.53	
40 05 19 00-1287	EA		16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,747.06	421.77
			For Class 52 Rating, Deduct	-231.88	
			For Class 54 Rating, Add	158.10	
			For Class 55 Rating, Add	351.40	
40 05 19 00-1288	EA		16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,833.31	423.79
			For Class 52 Rating, Deduct	-241.03	
			For Class 54 Rating, Add	164.34	
			For Class 55 Rating, Add	365.27	
40 05 19 00-1289	EA		16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,919.55	425.80
			For Class 52 Rating, Deduct	-250.18	
			For Class 54 Rating, Add	170.58	
			For Class 55 Rating, Add	379.14	
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,005.79	427.80
			For Class 52 Rating, Deduct	-259.34	
			For Class 54 Rating, Add	176.82	
			For Class 55 Rating, Add	393.01	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,092.03	429.81
			For Class 52 Rating, Deduct	-268.49	
			For Class 54 Rating, Add	183.06	
			For Class 55 Rating, Add	406.88	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,178.28	431.82
			For Class 52 Rating, Deduct	-277.64	
			For Class 54 Rating, Add	189.30	
			For Class 55 Rating, Add	420.75	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,264.52	433.84
			For Class 52 Rating, Deduct	-286.79	
			For Class 54 Rating, Add	195.54	
			For Class 55 Rating, Add	434.62	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,350.76	435.84
			For Class 52 Rating, Deduct	-295.94	
			For Class 54 Rating, Add	201.78	
			For Class 55 Rating, Add	448.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1295	EA		16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,437.00	437.84
			For Class 52 Rating, Deduct	-305.10	
			For Class 54 Rating, Add	208.02	
			For Class 55 Rating, Add	462.36	
40 05 19 00-1296	EA		16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,523.25	439.86
			For Class 52 Rating, Deduct	-314.25	
			For Class 54 Rating, Add	214.26	
			For Class 55 Rating, Add	476.23	
40 05 19 00-1297	EA		16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,609.49	441.86
			For Class 52 Rating, Deduct	-323.40	
			For Class 54 Rating, Add	220.50	
			For Class 55 Rating, Add	490.10	
40 05 19 00-1298	EA		16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,695.73	443.87
			For Class 52 Rating, Deduct	-332.55	
			For Class 54 Rating, Add	226.74	
			For Class 55 Rating, Add	503.97	
40 05 19 00-1299	EA		16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,781.97	445.88
			For Class 52 Rating, Deduct	-341.70	
			For Class 54 Rating, Add	232.98	
			For Class 55 Rating, Add	517.84	
40 05 19 00-1300	EA		16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,868.22	447.89
			For Class 52 Rating, Deduct	-350.86	
			For Class 54 Rating, Add	239.22	
			For Class 55 Rating, Add	531.71	
40 05 19 00-1301	EA		16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,954.47	449.90
			For Class 52 Rating, Deduct	-360.01	
			For Class 54 Rating, Add	245.46	
			For Class 55 Rating, Add	545.58	
40 05 19 00-1302	EA		16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,040.71	451.90
			For Class 52 Rating, Deduct	-369.16	
			For Class 54 Rating, Add	251.70	
			For Class 55 Rating, Add	559.45	
40 05 19 00-1303	EA		16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,126.95	453.92
			For Class 52 Rating, Deduct	-378.31	
			For Class 54 Rating, Add	257.94	
			For Class 55 Rating, Add	573.31	
40 05 19 00-1304	EA		16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,213.20	455.92
			For Class 52 Rating, Deduct	-387.46	
			For Class 54 Rating, Add	264.18	
			For Class 55 Rating, Add	587.18	
40 05 19 00-1305	EA		16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,299.44	457.93
			For Class 52 Rating, Deduct	-396.62	
			For Class 54 Rating, Add	270.42	
			For Class 55 Rating, Add	601.05	
40 05 19 00-1306	EA		16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,385.68	459.94
			For Class 52 Rating, Deduct	-405.77	
			For Class 54 Rating, Add	276.66	
			For Class 55 Rating, Add	614.92	
40 05 19 00-1307			18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1308	EA		18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,374.53	434.63
			For Class 52 Rating, Deduct	-78.76	
			For Class 54 Rating, Add	53.70	
			For Class 55 Rating, Add	119.36	
40 05 19 00-1309	EA		18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,473.58	436.65
			For Class 52 Rating, Deduct	-89.32	
			For Class 54 Rating, Add	60.90	
			For Class 55 Rating, Add	135.36	
40 05 19 00-1310	EA		18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,572.62	438.65
			For Class 52 Rating, Deduct	-99.88	
			For Class 54 Rating, Add	68.10	
			For Class 55 Rating, Add	151.36	
40 05 19 00-1311	EA		18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,671.67	440.66
			For Class 52 Rating, Deduct	-110.44	
			For Class 54 Rating, Add	75.30	
			For Class 55 Rating, Add	167.37	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1312	EA		18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,770.71	442.67
			For Class 52 Rating, Deduct	-121.00	
			For Class 54 Rating, Add	82.50	
			For Class 55 Rating, Add	183.37	
40 05 19 00-1313	EA		18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,869.76	444.67
			For Class 52 Rating, Deduct	-131.56	
			For Class 54 Rating, Add	89.70	
			For Class 55 Rating, Add	199.37	
40 05 19 00-1314	EA		18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,968.80	446.68
			For Class 52 Rating, Deduct	-142.12	
			For Class 54 Rating, Add	96.90	
			For Class 55 Rating, Add	215.38	
40 05 19 00-1315	EA		18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,067.84	448.69
			For Class 52 Rating, Deduct	-152.68	
			For Class 54 Rating, Add	104.10	
			For Class 55 Rating, Add	231.38	
40 05 19 00-1316	EA		18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,166.88	450.71
			For Class 52 Rating, Deduct	-163.24	
			For Class 54 Rating, Add	111.30	
			For Class 55 Rating, Add	247.38	
40 05 19 00-1317	EA		18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,265.93	452.71
			For Class 52 Rating, Deduct	-173.80	
			For Class 54 Rating, Add	118.50	
			For Class 55 Rating, Add	263.39	
40 05 19 00-1318	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,364.97	454.71
			For Class 52 Rating, Deduct	-184.36	
			For Class 54 Rating, Add	125.70	
			For Class 55 Rating, Add	279.39	
40 05 19 00-1319	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,464.01	456.73
			For Class 52 Rating, Deduct	-194.92	
			For Class 54 Rating, Add	132.90	
			For Class 55 Rating, Add	295.39	
40 05 19 00-1320	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,563.05	458.73
			For Class 52 Rating, Deduct	-205.48	
			For Class 54 Rating, Add	140.10	
			For Class 55 Rating, Add	311.40	
40 05 19 00-1321	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,662.10	460.74
			For Class 52 Rating, Deduct	-216.04	
			For Class 54 Rating, Add	147.30	
			For Class 55 Rating, Add	327.40	
40 05 19 00-1322	EA		18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,761.14	462.75
			For Class 52 Rating, Deduct	-226.60	
			For Class 54 Rating, Add	154.50	
			For Class 55 Rating, Add	343.40	
40 05 19 00-1323	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,860.18	464.76
			For Class 52 Rating, Deduct	-237.16	
			For Class 54 Rating, Add	161.70	
			For Class 55 Rating, Add	359.41	
40 05 19 00-1324	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,959.22	466.77
			For Class 52 Rating, Deduct	-247.72	
			For Class 54 Rating, Add	168.90	
			For Class 55 Rating, Add	375.41	
40 05 19 00-1325	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,058.27	468.77
			For Class 52 Rating, Deduct	-258.28	
			For Class 54 Rating, Add	176.10	
			For Class 55 Rating, Add	391.41	
40 05 19 00-1326	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,157.32	470.79
			For Class 52 Rating, Deduct	-268.84	
			For Class 54 Rating, Add	183.30	
			For Class 55 Rating, Add	407.41	
40 05 19 00-1327	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,256.36	472.79
			For Class 52 Rating, Deduct	-279.40	
			For Class 54 Rating, Add	190.50	
			For Class 55 Rating, Add	423.42	
40 05 19 00-1328	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,355.40	474.81
			For Class 52 Rating, Deduct	-289.96	
			For Class 54 Rating, Add	197.70	
			For Class 55 Rating, Add	439.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1329	EA	18"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,454.44	476.81
			For Class 52 Rating, Deduct	-300.52	
			For Class 54 Rating, Add	204.90	
			For Class 55 Rating, Add	455.42	
40 05 19 00-1330	EA	18"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,553.49	478.82
			For Class 52 Rating, Deduct	-311.08	
			For Class 54 Rating, Add	212.10	
			For Class 55 Rating, Add	471.43	
40 05 19 00-1331	EA	18"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,652.53	480.83
			For Class 52 Rating, Deduct	-321.64	
			For Class 54 Rating, Add	219.30	
			For Class 55 Rating, Add	487.43	
40 05 19 00-1332	EA	18"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,751.57	482.83
			For Class 52 Rating, Deduct	-332.20	
			For Class 54 Rating, Add	226.50	
			For Class 55 Rating, Add	503.43	
40 05 19 00-1333	EA	18"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,850.61	484.85
			For Class 52 Rating, Deduct	-342.76	
			For Class 54 Rating, Add	233.70	
			For Class 55 Rating, Add	519.44	
40 05 19 00-1334	EA	18"	Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,949.66	486.86
			For Class 52 Rating, Deduct	-353.32	
			For Class 54 Rating, Add	240.90	
			For Class 55 Rating, Add	535.44	
40 05 19 00-1335	EA	18"	Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,048.70	488.86
			For Class 52 Rating, Deduct	-363.88	
			For Class 54 Rating, Add	248.10	
			For Class 55 Rating, Add	551.44	
40 05 19 00-1336	EA	18"	Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,147.74	490.87
			For Class 52 Rating, Deduct	-374.44	
			For Class 54 Rating, Add	255.30	
			For Class 55 Rating, Add	567.45	
40 05 19 00-1337	EA	18"	Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,246.78	492.88
			For Class 52 Rating, Deduct	-385.00	
			For Class 54 Rating, Add	262.50	
			For Class 55 Rating, Add	583.45	
40 05 19 00-1338	EA	18"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,345.83	494.89
			For Class 52 Rating, Deduct	-395.56	
			For Class 54 Rating, Add	269.70	
			For Class 55 Rating, Add	599.45	
40 05 19 00-1339	EA	18"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,444.87	496.89
			For Class 52 Rating, Deduct	-406.12	
			For Class 54 Rating, Add	276.90	
			For Class 55 Rating, Add	615.46	
40 05 19 00-1340	EA	18"	Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,543.92	498.90
			For Class 52 Rating, Deduct	-416.68	
			For Class 54 Rating, Add	284.10	
			For Class 55 Rating, Add	631.46	
40 05 19 00-1341	EA	18"	Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,642.96	500.92
			For Class 52 Rating, Deduct	-427.24	
			For Class 54 Rating, Add	291.30	
			For Class 55 Rating, Add	647.46	
40 05 19 00-1342	EA	18"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,742.01	502.92
			For Class 52 Rating, Deduct	-437.80	
			For Class 54 Rating, Add	298.50	
			For Class 55 Rating, Add	663.47	
40 05 19 00-1343	EA	18"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,841.05	504.93
			For Class 52 Rating, Deduct	-448.36	
			For Class 54 Rating, Add	305.70	
			For Class 55 Rating, Add	679.47	
40 05 19 00-1344	EA	18"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,940.09	506.94
			For Class 52 Rating, Deduct	-458.92	
			For Class 54 Rating, Add	312.90	
			For Class 55 Rating, Add	695.47	
40 05 19 00-1345	EA	18"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,039.13	508.94
			For Class 52 Rating, Deduct	-469.48	
			For Class 54 Rating, Add	320.10	
			For Class 55 Rating, Add	711.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 19 00-1346	20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)				
40 05 19 00-1347	EA 20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,594.85		496.09	
	For Class 52 Rating, Deduct	-92.75			
	For Class 54 Rating, Add	63.24			
	For Class 55 Rating, Add	140.56			
40 05 19 00-1348	EA 20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,708.30		498.11	
	For Class 52 Rating, Deduct	-104.90			
	For Class 54 Rating, Add	71.52			
	For Class 55 Rating, Add	158.97			
40 05 19 00-1349	EA 20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,821.74		500.11	
	For Class 52 Rating, Deduct	-117.04			
	For Class 54 Rating, Add	79.80			
	For Class 55 Rating, Add	177.37			
40 05 19 00-1350	EA 20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,935.18		502.11	
	For Class 52 Rating, Deduct	-129.18			
	For Class 54 Rating, Add	88.08			
	For Class 55 Rating, Add	195.77			
40 05 19 00-1351	EA 20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,048.62		504.13	
	For Class 52 Rating, Deduct	-141.33			
	For Class 54 Rating, Add	96.36			
	For Class 55 Rating, Add	214.18			
40 05 19 00-1352	EA 20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,162.07		506.13	
	For Class 52 Rating, Deduct	-153.47			
	For Class 54 Rating, Add	104.64			
	For Class 55 Rating, Add	232.58			
40 05 19 00-1353	EA 20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,275.52		508.15	
	For Class 52 Rating, Deduct	-165.62			
	For Class 54 Rating, Add	112.92			
	For Class 55 Rating, Add	250.98			
40 05 19 00-1354	EA 20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,388.96		510.15	
	For Class 52 Rating, Deduct	-177.76			
	For Class 54 Rating, Add	121.20			
	For Class 55 Rating, Add	269.39			
40 05 19 00-1355	EA 20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,502.40		512.16	
	For Class 52 Rating, Deduct	-189.90			
	For Class 54 Rating, Add	129.48			
	For Class 55 Rating, Add	287.79			
40 05 19 00-1356	EA 20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,615.85		514.17	
	For Class 52 Rating, Deduct	-202.05			
	For Class 54 Rating, Add	137.76			
	For Class 55 Rating, Add	306.19			
40 05 19 00-1357	EA 20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,729.29		516.17	
	For Class 52 Rating, Deduct	-214.19			
	For Class 54 Rating, Add	146.04			
	For Class 55 Rating, Add	324.60			
40 05 19 00-1358	EA 20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,842.73		518.19	
	For Class 52 Rating, Deduct	-226.34			
	For Class 54 Rating, Add	154.32			
	For Class 55 Rating, Add	343.00			
40 05 19 00-1359	EA 20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,956.17		520.19	
	For Class 52 Rating, Deduct	-238.48			
	For Class 54 Rating, Add	162.60			
	For Class 55 Rating, Add	361.41			
40 05 19 00-1360	EA 20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,069.62		522.21	
	For Class 52 Rating, Deduct	-250.62			
	For Class 54 Rating, Add	170.88			
	For Class 55 Rating, Add	379.81			
40 05 19 00-1361	EA 20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,183.06		524.21	
	For Class 52 Rating, Deduct	-262.77			
	For Class 54 Rating, Add	179.16			
	For Class 55 Rating, Add	398.21			
40 05 19 00-1362	EA 20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,296.50		526.22	
	For Class 52 Rating, Deduct	-274.91			
	For Class 54 Rating, Add	187.44			
	For Class 55 Rating, Add	416.62			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1363	EA		20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,409.94	528.23
			For Class 52 Rating, Deduct	-287.06	
			For Class 54 Rating, Add	195.72	
			For Class 55 Rating, Add	435.02	
40 05 19 00-1364	EA		20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,523.39	530.23
			For Class 52 Rating, Deduct	-299.20	
			For Class 54 Rating, Add	204.00	
			For Class 55 Rating, Add	453.42	
40 05 19 00-1365	EA		20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,636.83	532.24
			For Class 52 Rating, Deduct	-311.34	
			For Class 54 Rating, Add	212.28	
			For Class 55 Rating, Add	471.83	
40 05 19 00-1366	EA		20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,750.27	534.26
			For Class 52 Rating, Deduct	-323.49	
			For Class 54 Rating, Add	220.56	
			For Class 55 Rating, Add	490.23	
40 05 19 00-1367	EA		20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,863.71	536.26
			For Class 52 Rating, Deduct	-335.63	
			For Class 54 Rating, Add	228.84	
			For Class 55 Rating, Add	508.64	
40 05 19 00-1368	EA		20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,977.17	538.27
			For Class 52 Rating, Deduct	-347.78	
			For Class 54 Rating, Add	237.12	
			For Class 55 Rating, Add	527.04	
40 05 19 00-1369	EA		20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,090.61	540.28
			For Class 52 Rating, Deduct	-359.92	
			For Class 54 Rating, Add	245.40	
			For Class 55 Rating, Add	545.44	
40 05 19 00-1370	EA		20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,204.05	542.29
			For Class 52 Rating, Deduct	-372.06	
			For Class 54 Rating, Add	253.68	
			For Class 55 Rating, Add	563.85	
40 05 19 00-1371	EA		20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,317.49	544.30
			For Class 52 Rating, Deduct	-384.21	
			For Class 54 Rating, Add	261.96	
			For Class 55 Rating, Add	582.25	
40 05 19 00-1372	EA		20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,430.94	546.30
			For Class 52 Rating, Deduct	-396.35	
			For Class 54 Rating, Add	270.24	
			For Class 55 Rating, Add	600.65	
40 05 19 00-1373	EA		20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,544.38	548.32
			For Class 52 Rating, Deduct	-408.50	
			For Class 54 Rating, Add	278.52	
			For Class 55 Rating, Add	619.06	
40 05 19 00-1374	EA		20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,657.82	550.32
			For Class 52 Rating, Deduct	-420.64	
			For Class 54 Rating, Add	286.80	
			For Class 55 Rating, Add	637.46	
40 05 19 00-1375	EA		20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,771.26	552.33
			For Class 52 Rating, Deduct	-432.78	
			For Class 54 Rating, Add	295.08	
			For Class 55 Rating, Add	655.86	
40 05 19 00-1376	EA		20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,884.71	554.34
			For Class 52 Rating, Deduct	-444.93	
			For Class 54 Rating, Add	303.36	
			For Class 55 Rating, Add	674.27	
40 05 19 00-1377	EA		20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,998.15	556.34
			For Class 52 Rating, Deduct	-457.07	
			For Class 54 Rating, Add	311.64	
			For Class 55 Rating, Add	692.67	
40 05 19 00-1378	EA		20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,111.59	558.36
			For Class 52 Rating, Deduct	-469.22	
			For Class 54 Rating, Add	319.92	
			For Class 55 Rating, Add	711.08	
40 05 19 00-1379	EA		20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,225.03	560.36
			For Class 52 Rating, Deduct	-481.36	
			For Class 54 Rating, Add	328.20	
			For Class 55 Rating, Add	729.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1380	EA	20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,338.47		562.38
		For Class 52 Rating, Deduct	-493.50		
		For Class 54 Rating, Add	336.48		
		For Class 55 Rating, Add	747.88		
40 05 19 00-1381	EA	20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,451.92		564.38
		For Class 52 Rating, Deduct	-505.65		
		For Class 54 Rating, Add	344.76		
		For Class 55 Rating, Add	766.29		
40 05 19 00-1382	EA	20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,565.37		566.38
		For Class 52 Rating, Deduct	-517.79		
		For Class 54 Rating, Add	353.04		
		For Class 55 Rating, Add	784.69		
40 05 19 00-1383	EA	20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,678.81		568.40
		For Class 52 Rating, Deduct	-529.94		
		For Class 54 Rating, Add	361.32		
		For Class 55 Rating, Add	803.09		
40 05 19 00-1384	EA	20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,792.25		570.40
		For Class 52 Rating, Deduct	-542.08		
		For Class 54 Rating, Add	369.60		
		For Class 55 Rating, Add	821.50		
40 05 19 00-1385 24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1386	EA	24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,941.39		586.47
		For Class 52 Rating, Deduct	-115.81		
		For Class 54 Rating, Add	78.96		
		For Class 55 Rating, Add	175.50		
40 05 19 00-1387	EA	24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,081.24		588.48
		For Class 52 Rating, Deduct	-130.86		
		For Class 54 Rating, Add	89.22		
		For Class 55 Rating, Add	198.31		
40 05 19 00-1388	EA	24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,221.08		590.49
		For Class 52 Rating, Deduct	-145.90		
		For Class 54 Rating, Add	99.48		
		For Class 55 Rating, Add	221.11		
40 05 19 00-1389	EA	24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,360.92		592.50
		For Class 52 Rating, Deduct	-160.95		
		For Class 54 Rating, Add	109.74		
		For Class 55 Rating, Add	243.92		
40 05 19 00-1390	EA	24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,500.76		594.51
		For Class 52 Rating, Deduct	-176.00		
		For Class 54 Rating, Add	120.00		
		For Class 55 Rating, Add	266.72		
40 05 19 00-1391	EA	24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,640.62		596.51
		For Class 52 Rating, Deduct	-191.05		
		For Class 54 Rating, Add	130.26		
		For Class 55 Rating, Add	289.52		
40 05 19 00-1392	EA	24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,780.46		598.53
		For Class 52 Rating, Deduct	-206.10		
		For Class 54 Rating, Add	140.52		
		For Class 55 Rating, Add	312.33		
40 05 19 00-1393	EA	24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,920.30		600.53
		For Class 52 Rating, Deduct	-221.14		
		For Class 54 Rating, Add	150.78		
		For Class 55 Rating, Add	335.13		
40 05 19 00-1394	EA	24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,060.14		602.54
		For Class 52 Rating, Deduct	-236.19		
		For Class 54 Rating, Add	161.04		
		For Class 55 Rating, Add	357.94		
40 05 19 00-1395	EA	24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,199.99		604.55
		For Class 52 Rating, Deduct	-251.24		
		For Class 54 Rating, Add	171.30		
		For Class 55 Rating, Add	380.74		
40 05 19 00-1396	EA	24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,339.83		606.56
		For Class 52 Rating, Deduct	-266.29		
		For Class 54 Rating, Add	181.56		
		For Class 55 Rating, Add	403.55		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1397	EA		24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,479.67	608.57
			For Class 52 Rating, Deduct	-281.34	
			For Class 54 Rating, Add	191.82	
			For Class 55 Rating, Add	426.35	
40 05 19 00-1398	EA		24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,619.51	610.57
			For Class 52 Rating, Deduct	-296.38	
			For Class 54 Rating, Add	202.08	
			For Class 55 Rating, Add	449.16	
40 05 19 00-1399	EA		24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,759.36	612.59
			For Class 52 Rating, Deduct	-311.43	
			For Class 54 Rating, Add	212.34	
			For Class 55 Rating, Add	471.96	
40 05 19 00-1400	EA		24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,899.20	614.59
			For Class 52 Rating, Deduct	-326.48	
			For Class 54 Rating, Add	222.60	
			For Class 55 Rating, Add	494.77	
40 05 19 00-1401	EA		24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,039.04	616.60
			For Class 52 Rating, Deduct	-341.53	
			For Class 54 Rating, Add	232.86	
			For Class 55 Rating, Add	517.57	
40 05 19 00-1402	EA		24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,178.88	618.61
			For Class 52 Rating, Deduct	-356.58	
			For Class 54 Rating, Add	243.12	
			For Class 55 Rating, Add	540.37	
40 05 19 00-1403	EA		24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,318.73	620.61
			For Class 52 Rating, Deduct	-371.62	
			For Class 54 Rating, Add	253.38	
			For Class 55 Rating, Add	563.18	
40 05 19 00-1404	EA		24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,458.57	622.63
			For Class 52 Rating, Deduct	-386.67	
			For Class 54 Rating, Add	263.64	
			For Class 55 Rating, Add	585.98	
40 05 19 00-1405	EA		24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,598.42	624.63
			For Class 52 Rating, Deduct	-401.72	
			For Class 54 Rating, Add	273.90	
			For Class 55 Rating, Add	608.79	
40 05 19 00-1406	EA		24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,738.26	626.65
			For Class 52 Rating, Deduct	-416.77	
			For Class 54 Rating, Add	284.16	
			For Class 55 Rating, Add	631.59	
40 05 19 00-1407	EA		24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,878.11	628.65
			For Class 52 Rating, Deduct	-431.82	
			For Class 54 Rating, Add	294.42	
			For Class 55 Rating, Add	654.40	
40 05 19 00-1408	EA		24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,017.95	630.66
			For Class 52 Rating, Deduct	-446.86	
			For Class 54 Rating, Add	304.68	
			For Class 55 Rating, Add	677.20	
40 05 19 00-1409	EA		24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,157.79	632.67
			For Class 52 Rating, Deduct	-461.91	
			For Class 54 Rating, Add	314.94	
			For Class 55 Rating, Add	700.01	
40 05 19 00-1410	EA		24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,297.63	634.68
			For Class 52 Rating, Deduct	-476.96	
			For Class 54 Rating, Add	325.20	
			For Class 55 Rating, Add	722.81	
40 05 19 00-1411	EA		24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,437.48	636.69
			For Class 52 Rating, Deduct	-492.01	
			For Class 54 Rating, Add	335.46	
			For Class 55 Rating, Add	745.62	
40 05 19 00-1412	EA		24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,577.32	638.69
			For Class 52 Rating, Deduct	-507.06	
			For Class 54 Rating, Add	345.72	
			For Class 55 Rating, Add	768.42	
40 05 19 00-1413	EA		24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,717.16	640.70
			For Class 52 Rating, Deduct	-522.10	
			For Class 54 Rating, Add	355.98	
			For Class 55 Rating, Add	791.22	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1414	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,857.00	642.71
			For Class 52 Rating, Deduct	-537.15	
			For Class 54 Rating, Add	366.24	
			For Class 55 Rating, Add	814.03	
40 05 19 00-1415	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,048.58	678.86
			For Class 52 Rating, Deduct	-552.20	
			For Class 54 Rating, Add	376.50	
			For Class 55 Rating, Add	836.83	
40 05 19 00-1416	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,188.42	680.88
			For Class 52 Rating, Deduct	-567.25	
			For Class 54 Rating, Add	386.76	
			For Class 55 Rating, Add	859.64	
40 05 19 00-1417	EA		24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,328.27	682.88
			For Class 52 Rating, Deduct	-582.30	
			For Class 54 Rating, Add	397.02	
			For Class 55 Rating, Add	882.44	
40 05 19 00-1418	EA		24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,468.11	684.89
			For Class 52 Rating, Deduct	-597.34	
			For Class 54 Rating, Add	407.28	
			For Class 55 Rating, Add	905.25	
40 05 19 00-1419	EA		24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,607.96	686.90
			For Class 52 Rating, Deduct	-612.39	
			For Class 54 Rating, Add	417.54	
			For Class 55 Rating, Add	928.05	
40 05 19 00-1420	EA		24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,747.80	688.90
			For Class 52 Rating, Deduct	-627.44	
			For Class 54 Rating, Add	427.80	
			For Class 55 Rating, Add	950.86	
40 05 19 00-1421	EA		24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,887.64	690.92
			For Class 52 Rating, Deduct	-642.49	
			For Class 54 Rating, Add	438.06	
			For Class 55 Rating, Add	973.66	
40 05 19 00-1422	EA		24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,027.48	692.92
			For Class 52 Rating, Deduct	-657.54	
			For Class 54 Rating, Add	448.32	
			For Class 55 Rating, Add	996.47	
40 05 19 00-1423	EA		24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,167.33	694.93
			For Class 52 Rating, Deduct	-672.58	
			For Class 54 Rating, Add	458.58	
			For Class 55 Rating, Add	1,019.27	
40 05 19 00-1424			30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1425	EA		30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,917.78	827.49
			For Class 52 Rating, Deduct	-183.04	
			For Class 54 Rating, Add	124.80	
			For Class 55 Rating, Add	277.39	
40 05 19 00-1426	EA		30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,118.42	829.50
			For Class 52 Rating, Deduct	-204.78	
			For Class 54 Rating, Add	139.62	
			For Class 55 Rating, Add	310.33	
40 05 19 00-1427	EA		30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,319.06	831.51
			For Class 52 Rating, Deduct	-226.51	
			For Class 54 Rating, Add	154.44	
			For Class 55 Rating, Add	343.27	
40 05 19 00-1428	EA		30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,519.71	833.51
			For Class 52 Rating, Deduct	-248.25	
			For Class 54 Rating, Add	169.26	
			For Class 55 Rating, Add	376.21	
40 05 19 00-1429	EA		30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,720.35	835.53
			For Class 52 Rating, Deduct	-269.98	
			For Class 54 Rating, Add	184.08	
			For Class 55 Rating, Add	409.15	
40 05 19 00-1430	EA		30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,920.99	837.53
			For Class 52 Rating, Deduct	-291.72	
			For Class 54 Rating, Add	198.90	
			For Class 55 Rating, Add	442.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431	EA		30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,121.63	839.55
			For Class 52 Rating, Deduct	-313.46	
			For Class 54 Rating, Add	213.72	
			For Class 55 Rating, Add	475.03	
40 05 19 00-1432	EA		30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,322.27	841.55
			For Class 52 Rating, Deduct	-335.19	
			For Class 54 Rating, Add	228.54	
			For Class 55 Rating, Add	507.97	
40 05 19 00-1433	EA		30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,522.92	843.55
			For Class 52 Rating, Deduct	-356.93	
			For Class 54 Rating, Add	243.36	
			For Class 55 Rating, Add	540.91	
40 05 19 00-1434	EA		30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,723.56	845.57
			For Class 52 Rating, Deduct	-378.66	
			For Class 54 Rating, Add	258.18	
			For Class 55 Rating, Add	573.85	
40 05 19 00-1435	EA		30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,924.20	847.57
			For Class 52 Rating, Deduct	-400.40	
			For Class 54 Rating, Add	273.00	
			For Class 55 Rating, Add	606.79	
40 05 19 00-1436	EA		30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,124.84	849.59
			For Class 52 Rating, Deduct	-422.14	
			For Class 54 Rating, Add	287.82	
			For Class 55 Rating, Add	639.73	
40 05 19 00-1437	EA		30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,325.49	851.59
			For Class 52 Rating, Deduct	-443.87	
			For Class 54 Rating, Add	302.64	
			For Class 55 Rating, Add	672.67	
40 05 19 00-1438	EA		30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,526.13	853.60
			For Class 52 Rating, Deduct	-465.61	
			For Class 54 Rating, Add	317.46	
			For Class 55 Rating, Add	705.61	
40 05 19 00-1439	EA		30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,726.78	855.61
			For Class 52 Rating, Deduct	-487.34	
			For Class 54 Rating, Add	332.28	
			For Class 55 Rating, Add	738.55	
40 05 19 00-1440	EA		30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,927.42	857.61
			For Class 52 Rating, Deduct	-509.08	
			For Class 54 Rating, Add	347.10	
			For Class 55 Rating, Add	771.49	
40 05 19 00-1441	EA		30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,128.07	859.63
			For Class 52 Rating, Deduct	-530.82	
			For Class 54 Rating, Add	361.92	
			For Class 55 Rating, Add	804.43	
40 05 19 00-1442	EA		30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,328.71	861.64
			For Class 52 Rating, Deduct	-552.55	
			For Class 54 Rating, Add	376.74	
			For Class 55 Rating, Add	837.37	
40 05 19 00-1443	EA		30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,529.35	863.64
			For Class 52 Rating, Deduct	-574.29	
			For Class 54 Rating, Add	391.56	
			For Class 55 Rating, Add	870.31	
40 05 19 00-1444	EA		30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,729.99	865.65
			For Class 52 Rating, Deduct	-596.02	
			For Class 54 Rating, Add	406.38	
			For Class 55 Rating, Add	903.25	
40 05 19 00-1445	EA		30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,930.64	867.66
			For Class 52 Rating, Deduct	-617.76	
			For Class 54 Rating, Add	421.20	
			For Class 55 Rating, Add	936.19	
40 05 19 00-1446	EA		30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,131.28	869.67
			For Class 52 Rating, Deduct	-639.50	
			For Class 54 Rating, Add	436.02	
			For Class 55 Rating, Add	969.13	
40 05 19 00-1447	EA		30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,331.92	871.67
			For Class 52 Rating, Deduct	-661.23	
			For Class 54 Rating, Add	450.84	
			For Class 55 Rating, Add	1,002.07	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1448	EA		30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,532.56	873.69
			For Class 52 Rating, Deduct	-682.97	
			For Class 54 Rating, Add	465.66	
			For Class 55 Rating, Add	1,035.01	
40 05 19 00-1449	EA		30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,733.21	875.70
			For Class 52 Rating, Deduct	-704.70	
			For Class 54 Rating, Add	480.48	
			For Class 55 Rating, Add	1,067.95	
40 05 19 00-1450	EA		30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,933.85	877.70
			For Class 52 Rating, Deduct	-726.44	
			For Class 54 Rating, Add	495.30	
			For Class 55 Rating, Add	1,100.89	
40 05 19 00-1451	EA		30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,134.49	879.71
			For Class 52 Rating, Deduct	-748.18	
			For Class 54 Rating, Add	510.12	
			For Class 55 Rating, Add	1,133.83	
40 05 19 00-1452	EA		30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,335.13	881.72
			For Class 52 Rating, Deduct	-769.91	
			For Class 54 Rating, Add	524.94	
			For Class 55 Rating, Add	1,166.77	
40 05 19 00-1453	EA		30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,535.78	883.72
			For Class 52 Rating, Deduct	-791.65	
			For Class 54 Rating, Add	539.76	
			For Class 55 Rating, Add	1,199.71	
40 05 19 00-1454	EA		30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,736.43	885.74
			For Class 52 Rating, Deduct	-813.38	
			For Class 54 Rating, Add	554.58	
			For Class 55 Rating, Add	1,232.65	
40 05 19 00-1455	EA		30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,937.07	887.74
			For Class 52 Rating, Deduct	-835.12	
			For Class 54 Rating, Add	569.40	
			For Class 55 Rating, Add	1,265.59	
40 05 19 00-1456	EA		30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,137.71	889.76
			For Class 52 Rating, Deduct	-856.86	
			For Class 54 Rating, Add	584.22	
			For Class 55 Rating, Add	1,298.53	
40 05 19 00-1457	EA		30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,338.36	891.76
			For Class 52 Rating, Deduct	-878.59	
			For Class 54 Rating, Add	599.04	
			For Class 55 Rating, Add	1,331.47	
40 05 19 00-1458	EA		30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,539.00	893.77
			For Class 52 Rating, Deduct	-900.33	
			For Class 54 Rating, Add	613.86	
			For Class 55 Rating, Add	1,364.41	
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,739.64	895.78
			For Class 52 Rating, Deduct	-922.06	
			For Class 54 Rating, Add	628.68	
			For Class 55 Rating, Add	1,397.35	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,940.28	897.78
			For Class 52 Rating, Deduct	-943.80	
			For Class 54 Rating, Add	643.50	
			For Class 55 Rating, Add	1,430.29	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,140.93	899.80
			For Class 52 Rating, Deduct	-965.54	
			For Class 54 Rating, Add	658.32	
			For Class 55 Rating, Add	1,463.23	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,341.57	901.80
			For Class 52 Rating, Deduct	-987.27	
			For Class 54 Rating, Add	673.14	
			For Class 55 Rating, Add	1,496.17	
40 05 19 00-1463			36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			(40 05 19 00-1028)		
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,958.12	1,048.43
			For Class 52 Rating, Deduct	-260.66	
			For Class 54 Rating, Add	177.72	
			For Class 55 Rating, Add	395.01	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1465	EA		36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,229.96	1,050.43
			For Class 52 Rating, Deduct	-290.22	
			For Class 54 Rating, Add	197.88	
			For Class 55 Rating, Add	439.82	
40 05 19 00-1466	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,501.80	1,052.44
			For Class 52 Rating, Deduct	-319.79	
			For Class 54 Rating, Add	218.04	
			For Class 55 Rating, Add	484.63	
40 05 19 00-1467	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,773.64	1,054.45
			For Class 52 Rating, Deduct	-349.36	
			For Class 54 Rating, Add	238.20	
			For Class 55 Rating, Add	529.44	
40 05 19 00-1468	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,045.49	1,056.45
			For Class 52 Rating, Deduct	-378.93	
			For Class 54 Rating, Add	258.36	
			For Class 55 Rating, Add	574.25	
40 05 19 00-1469	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,317.33	1,058.46
			For Class 52 Rating, Deduct	-408.50	
			For Class 54 Rating, Add	278.52	
			For Class 55 Rating, Add	619.06	
40 05 19 00-1470	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,589.18	1,060.47
			For Class 52 Rating, Deduct	-438.06	
			For Class 54 Rating, Add	298.68	
			For Class 55 Rating, Add	663.87	
40 05 19 00-1471	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,861.02	1,062.49
			For Class 52 Rating, Deduct	-467.63	
			For Class 54 Rating, Add	318.84	
			For Class 55 Rating, Add	708.68	
40 05 19 00-1472	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,132.87	1,064.49
			For Class 52 Rating, Deduct	-497.20	
			For Class 54 Rating, Add	339.00	
			For Class 55 Rating, Add	753.48	
40 05 19 00-1473	EA		36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,404.71	1,066.49
			For Class 52 Rating, Deduct	-526.77	
			For Class 54 Rating, Add	359.16	
			For Class 55 Rating, Add	798.29	
40 05 19 00-1474	EA		36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,676.55	1,068.51
			For Class 52 Rating, Deduct	-556.34	
			For Class 54 Rating, Add	379.32	
			For Class 55 Rating, Add	843.10	
40 05 19 00-1475	EA		36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,948.39	1,070.52
			For Class 52 Rating, Deduct	-585.90	
			For Class 54 Rating, Add	399.48	
			For Class 55 Rating, Add	887.91	
40 05 19 00-1476	EA		36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,220.24	1,072.52
			For Class 52 Rating, Deduct	-615.47	
			For Class 54 Rating, Add	419.64	
			For Class 55 Rating, Add	932.72	
40 05 19 00-1477	EA		36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,492.08	1,074.53
			For Class 52 Rating, Deduct	-645.04	
			For Class 54 Rating, Add	439.80	
			For Class 55 Rating, Add	977.53	
40 05 19 00-1478	EA		36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,763.92	1,076.54
			For Class 52 Rating, Deduct	-674.61	
			For Class 54 Rating, Add	459.96	
			For Class 55 Rating, Add	1,022.34	
40 05 19 00-1479	EA		36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,035.76	1,078.55
			For Class 52 Rating, Deduct	-704.18	
			For Class 54 Rating, Add	480.12	
			For Class 55 Rating, Add	1,067.15	
40 05 19 00-1480	EA		36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,307.61	1,080.55
			For Class 52 Rating, Deduct	-733.74	
			For Class 54 Rating, Add	500.28	
			For Class 55 Rating, Add	1,111.96	
40 05 19 00-1481	EA		36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,579.45	1,082.57
			For Class 52 Rating, Deduct	-763.31	
			For Class 54 Rating, Add	520.44	
			For Class 55 Rating, Add	1,156.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1482	EA		36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,851.29	1,084.58
			For Class 52 Rating, Deduct	-792.88	
			For Class 54 Rating, Add	540.60	
			For Class 55 Rating, Add	1,201.57	
40 05 19 00-1483	EA		36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,123.13	1,086.58
			For Class 52 Rating, Deduct	-822.45	
			For Class 54 Rating, Add	560.76	
			For Class 55 Rating, Add	1,246.38	
40 05 19 00-1484	EA		36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,394.99	1,088.59
			For Class 52 Rating, Deduct	-852.02	
			For Class 54 Rating, Add	580.92	
			For Class 55 Rating, Add	1,291.19	
40 05 19 00-1485	EA		36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,666.83	1,090.60
			For Class 52 Rating, Deduct	-881.58	
			For Class 54 Rating, Add	601.08	
			For Class 55 Rating, Add	1,336.00	
40 05 19 00-1486	EA		36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,938.67	1,092.61
			For Class 52 Rating, Deduct	-911.15	
			For Class 54 Rating, Add	621.24	
			For Class 55 Rating, Add	1,380.81	
40 05 19 00-1487	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,210.51	1,094.61
			For Class 52 Rating, Deduct	-940.72	
			For Class 54 Rating, Add	641.40	
			For Class 55 Rating, Add	1,425.62	
40 05 19 00-1488	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,482.36	1,096.63
			For Class 52 Rating, Deduct	-970.29	
			For Class 54 Rating, Add	661.56	
			For Class 55 Rating, Add	1,470.43	
40 05 19 00-1489	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,754.20	1,098.64
			For Class 52 Rating, Deduct	-999.86	
			For Class 54 Rating, Add	681.72	
			For Class 55 Rating, Add	1,515.24	
40 05 19 00-1490	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,026.04	1,100.64
			For Class 52 Rating, Deduct	-1,029.42	
			For Class 54 Rating, Add	701.88	
			For Class 55 Rating, Add	1,560.05	
40 05 19 00-1491	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,297.88	1,102.65
			For Class 52 Rating, Deduct	-1,058.99	
			For Class 54 Rating, Add	722.04	
			For Class 55 Rating, Add	1,604.85	
40 05 19 00-1492	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,569.73	1,104.66
			For Class 52 Rating, Deduct	-1,088.56	
			For Class 54 Rating, Add	742.20	
			For Class 55 Rating, Add	1,649.66	
40 05 19 00-1493	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,841.57	1,106.68
			For Class 52 Rating, Deduct	-1,118.13	
			For Class 54 Rating, Add	762.36	
			For Class 55 Rating, Add	1,694.47	
40 05 19 00-1494	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,113.41	1,108.67
			For Class 52 Rating, Deduct	-1,147.70	
			For Class 54 Rating, Add	782.52	
			For Class 55 Rating, Add	1,739.28	
40 05 19 00-1495	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,385.25	1,110.68
			For Class 52 Rating, Deduct	-1,177.26	
			For Class 54 Rating, Add	802.68	
			For Class 55 Rating, Add	1,784.09	
40 05 19 00-1496	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,657.10	1,112.70
			For Class 52 Rating, Deduct	-1,206.83	
			For Class 54 Rating, Add	822.84	
			For Class 55 Rating, Add	1,828.90	
40 05 19 00-1497	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,928.94	1,114.70
			For Class 52 Rating, Deduct	-1,236.40	
			For Class 54 Rating, Add	843.00	
			For Class 55 Rating, Add	1,873.71	
40 05 19 00-1498	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,200.78	1,116.71
			For Class 52 Rating, Deduct	-1,265.97	
			For Class 54 Rating, Add	863.16	
			For Class 55 Rating, Add	1,918.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1499	EA		36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,472.63	1,118.72
			For Class 52 Rating, Deduct	-1,295.54	
			For Class 54 Rating, Add	883.32	
			For Class 55 Rating, Add	1,963.33	
40 05 19 00-1500	EA		36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,744.47	1,120.73
			For Class 52 Rating, Deduct	-1,325.10	
			For Class 54 Rating, Add	903.48	
			For Class 55 Rating, Add	2,008.13	
40 05 19 00-1501	EA		36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,016.32	1,122.73
			For Class 52 Rating, Deduct	-1,354.67	
			For Class 54 Rating, Add	923.64	
			For Class 55 Rating, Add	2,052.94	
40 05 19 00-1502			42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1503	EA		42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,179.19	1,321.58
			For Class 52 Rating, Deduct	-349.45	
			For Class 54 Rating, Add	238.26	
			For Class 55 Rating, Add	529.57	
40 05 19 00-1504	EA		42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,583.83	1,323.57
			For Class 52 Rating, Deduct	-393.62	
			For Class 54 Rating, Add	268.38	
			For Class 55 Rating, Add	596.52	
40 05 19 00-1505	EA		42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,983.67	1,325.59
			For Class 52 Rating, Deduct	-437.27	
			For Class 54 Rating, Add	298.14	
			For Class 55 Rating, Add	662.67	
40 05 19 00-1506	EA		42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,387.52	1,327.60
			For Class 52 Rating, Deduct	-481.36	
			For Class 54 Rating, Add	328.20	
			For Class 55 Rating, Add	729.48	
40 05 19 00-1507	EA		42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,787.36	1,329.62
			For Class 52 Rating, Deduct	-525.01	
			For Class 54 Rating, Add	357.96	
			For Class 55 Rating, Add	795.63	
40 05 19 00-1508	EA		42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,192.00	1,331.61
			For Class 52 Rating, Deduct	-569.18	
			For Class 54 Rating, Add	388.08	
			For Class 55 Rating, Add	862.57	
40 05 19 00-1509	EA		42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,591.04	1,333.62
			For Class 52 Rating, Deduct	-612.74	
			For Class 54 Rating, Add	417.78	
			For Class 55 Rating, Add	928.59	
40 05 19 00-1510	EA		42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,995.69	1,335.64
			For Class 52 Rating, Deduct	-656.92	
			For Class 54 Rating, Add	447.90	
			For Class 55 Rating, Add	995.53	
40 05 19 00-1511	EA		42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,395.53	1,337.64
			For Class 52 Rating, Deduct	-700.57	
			For Class 54 Rating, Add	477.66	
			For Class 55 Rating, Add	1,061.68	
40 05 19 00-1512	EA		42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,799.37	1,339.65
			For Class 52 Rating, Deduct	-744.66	
			For Class 54 Rating, Add	507.72	
			For Class 55 Rating, Add	1,128.49	
40 05 19 00-1513	EA		42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,199.21	1,341.66
			For Class 52 Rating, Deduct	-788.30	
			For Class 54 Rating, Add	537.48	
			For Class 55 Rating, Add	1,194.64	
40 05 19 00-1514	EA		42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,603.06	1,343.67
			For Class 52 Rating, Deduct	-832.39	
			For Class 54 Rating, Add	567.54	
			For Class 55 Rating, Add	1,261.45	
40 05 19 00-1515	EA		42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,002.90	1,345.67
			For Class 52 Rating, Deduct	-876.04	
			For Class 54 Rating, Add	597.30	
			For Class 55 Rating, Add	1,327.60	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1516	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,403.54	1,347.68
			For Class 52 Rating, Deduct	-919.78	
			For Class 54 Rating, Add	627.12	
			For Class 55 Rating, Add	1,393.88	
40 05 19 00-1517	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,806.59	1,349.70
			For Class 52 Rating, Deduct	-963.78	
			For Class 54 Rating, Add	657.12	
			For Class 55 Rating, Add	1,460.56	
40 05 19 00-1518	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,206.44	1,351.71
			For Class 52 Rating, Deduct	-1,007.42	
			For Class 54 Rating, Add	686.88	
			For Class 55 Rating, Add	1,526.71	
40 05 19 00-1519	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,611.08	1,353.70
			For Class 52 Rating, Deduct	-1,051.60	
			For Class 54 Rating, Add	717.00	
			For Class 55 Rating, Add	1,593.65	
40 05 19 00-1520	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,010.92	1,355.72
			For Class 52 Rating, Deduct	-1,095.25	
			For Class 54 Rating, Add	746.76	
			For Class 55 Rating, Add	1,659.80	
40 05 19 00-1521	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,414.76	1,357.73
			For Class 52 Rating, Deduct	-1,139.34	
			For Class 54 Rating, Add	776.82	
			For Class 55 Rating, Add	1,726.61	
40 05 19 00-1522	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,814.61	1,359.73
			For Class 52 Rating, Deduct	-1,182.98	
			For Class 54 Rating, Add	806.58	
			For Class 55 Rating, Add	1,792.76	
40 05 19 00-1523	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,219.25	1,361.74
			For Class 52 Rating, Deduct	-1,227.16	
			For Class 54 Rating, Add	836.70	
			For Class 55 Rating, Add	1,859.71	
40 05 19 00-1524	EA		42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,619.09	1,363.75
			For Class 52 Rating, Deduct	-1,270.81	
			For Class 54 Rating, Add	866.46	
			For Class 55 Rating, Add	1,925.85	
40 05 19 00-1525	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,022.93	1,365.77
			For Class 52 Rating, Deduct	-1,314.90	
			For Class 54 Rating, Add	896.52	
			For Class 55 Rating, Add	1,992.67	
40 05 19 00-1526	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,422.78	1,367.76
			For Class 52 Rating, Deduct	-1,358.54	
			For Class 54 Rating, Add	926.28	
			For Class 55 Rating, Add	2,058.81	
40 05 19 00-1527	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,827.42	1,369.78
			For Class 52 Rating, Deduct	-1,402.72	
			For Class 54 Rating, Add	956.40	
			For Class 55 Rating, Add	2,125.76	
40 05 19 00-1528	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,227.26	1,371.79
			For Class 52 Rating, Deduct	-1,446.37	
			For Class 54 Rating, Add	986.16	
			For Class 55 Rating, Add	2,191.90	
40 05 19 00-1529	EA		42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,630.30	1,373.79
			For Class 52 Rating, Deduct	-1,490.37	
			For Class 54 Rating, Add	1,016.16	
			For Class 55 Rating, Add	2,258.58	
40 05 19 00-1530	EA		42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,030.95	1,375.80
			For Class 52 Rating, Deduct	-1,534.10	
			For Class 54 Rating, Add	1,045.98	
			For Class 55 Rating, Add	2,324.86	
40 05 19 00-1531	EA		42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,350.80	1,377.81
			For Class 52 Rating, Deduct	-1,568.95	
			For Class 54 Rating, Add	1,069.74	
			For Class 55 Rating, Add	2,377.68	
40 05 19 00-1532	EA		42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,834.64	1,379.83
			For Class 52 Rating, Deduct	-1,621.84	
			For Class 54 Rating, Add	1,105.80	
			For Class 55 Rating, Add	2,457.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1533	EA		42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,234.48	1,381.82
			For Class 52 Rating, Deduct	-1,665.49	
			For Class 54 Rating, Add	1,135.56	
			For Class 55 Rating, Add	2,523.97	
40 05 19 00-1534	EA		42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,638.33	1,383.84
			For Class 52 Rating, Deduct	-1,709.58	
			For Class 54 Rating, Add	1,165.62	
			For Class 55 Rating, Add	2,590.78	
40 05 19 00-1535	EA		42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,038.17	1,385.85
			For Class 52 Rating, Deduct	-1,753.22	
			For Class 54 Rating, Add	1,195.38	
			For Class 55 Rating, Add	2,656.93	
40 05 19 00-1536	EA		42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,442.81	1,387.86
			For Class 52 Rating, Deduct	-1,797.40	
			For Class 54 Rating, Add	1,225.50	
			For Class 55 Rating, Add	2,723.88	
40 05 19 00-1537	EA		42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,841.85	1,389.86
			For Class 52 Rating, Deduct	-1,840.96	
			For Class 54 Rating, Add	1,255.20	
			For Class 55 Rating, Add	2,789.89	
40 05 19 00-1538	EA		42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,246.49	1,391.87
			For Class 52 Rating, Deduct	-1,885.14	
			For Class 54 Rating, Add	1,285.32	
			For Class 55 Rating, Add	2,856.84	
40 05 19 00-1539	EA		42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,646.34	1,393.89
			For Class 52 Rating, Deduct	-1,928.78	
			For Class 54 Rating, Add	1,315.08	
			For Class 55 Rating, Add	2,922.98	
40 05 19 00-1540	EA		42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,050.18	1,395.88
			For Class 52 Rating, Deduct	-1,972.87	
			For Class 54 Rating, Add	1,345.14	
			For Class 55 Rating, Add	2,989.80	
40 05 19 00-1541			48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1542	EA		48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,647.87	1,661.01
			For Class 52 Rating, Deduct	-454.43	
			For Class 54 Rating, Add	309.84	
			For Class 55 Rating, Add	688.67	
40 05 19 00-1543	EA		48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,235.72	1,663.01
			For Class 52 Rating, Deduct	-518.76	
			For Class 54 Rating, Add	353.70	
			For Class 55 Rating, Add	786.16	
40 05 19 00-1544	EA		48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,822.76	1,665.02
			For Class 52 Rating, Deduct	-583.00	
			For Class 54 Rating, Add	397.50	
			For Class 55 Rating, Add	883.51	
40 05 19 00-1545	EA		48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,414.60	1,667.04
			For Class 52 Rating, Deduct	-647.77	
			For Class 54 Rating, Add	441.66	
			For Class 55 Rating, Add	981.66	
40 05 19 00-1546	EA		48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,002.45	1,669.03
			For Class 52 Rating, Deduct	-712.10	
			For Class 54 Rating, Add	485.52	
			For Class 55 Rating, Add	1,079.15	
40 05 19 00-1547	EA		48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,590.29	1,671.05
			For Class 52 Rating, Deduct	-776.42	
			For Class 54 Rating, Add	529.38	
			For Class 55 Rating, Add	1,176.64	
40 05 19 00-1548	EA		48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,181.34	1,673.06
			For Class 52 Rating, Deduct	-841.10	
			For Class 54 Rating, Add	573.48	
			For Class 55 Rating, Add	1,274.65	
40 05 19 00-1549	EA		48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,769.98	1,675.06
			For Class 52 Rating, Deduct	-905.52	
			For Class 54 Rating, Add	617.40	
			For Class 55 Rating, Add	1,372.27	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1550	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,357.02	1,677.07
			For Class 52 Rating, Deduct	-969.76	
			For Class 54 Rating, Add	661.20	
			For Class 55 Rating, Add	1,469.63	
40 05 19 00-1551	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,948.86	1,679.08
			For Class 52 Rating, Deduct	-1,034.53	
			For Class 54 Rating, Add	705.36	
			For Class 55 Rating, Add	1,567.78	
40 05 19 00-1552	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,536.71	1,681.10
			For Class 52 Rating, Deduct	-1,098.86	
			For Class 54 Rating, Add	749.22	
			For Class 55 Rating, Add	1,665.27	
40 05 19 00-1553	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,128.55	1,683.10
			For Class 52 Rating, Deduct	-1,163.62	
			For Class 54 Rating, Add	793.38	
			For Class 55 Rating, Add	1,763.42	
40 05 19 00-1554	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,715.59	1,685.10
			For Class 52 Rating, Deduct	-1,227.86	
			For Class 54 Rating, Add	837.18	
			For Class 55 Rating, Add	1,860.77	
40 05 19 00-1555	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,303.43	1,687.12
			For Class 52 Rating, Deduct	-1,292.19	
			For Class 54 Rating, Add	881.04	
			For Class 55 Rating, Add	1,958.26	
40 05 19 00-1556	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,895.28	1,689.13
			For Class 52 Rating, Deduct	-1,356.96	
			For Class 54 Rating, Add	925.20	
			For Class 55 Rating, Add	2,056.41	
40 05 19 00-1557	EA		48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,483.12	1,691.13
			For Class 52 Rating, Deduct	-1,421.29	
			For Class 54 Rating, Add	969.06	
			For Class 55 Rating, Add	2,153.90	
40 05 19 00-1558	EA		48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,070.16	1,693.14
			For Class 52 Rating, Deduct	-1,485.53	
			For Class 54 Rating, Add	1,012.86	
			For Class 55 Rating, Add	2,251.25	
40 05 19 00-1559	EA		48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,662.00	1,695.15
			For Class 52 Rating, Deduct	-1,550.30	
			For Class 54 Rating, Add	1,057.02	
			For Class 55 Rating, Add	2,349.40	
40 05 19 00-1560	EA		48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,249.86	1,697.16
			For Class 52 Rating, Deduct	-1,614.62	
			For Class 54 Rating, Add	1,100.88	
			For Class 55 Rating, Add	2,446.89	
40 05 19 00-1561	EA		48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,836.90	1,699.16
			For Class 52 Rating, Deduct	-1,678.86	
			For Class 54 Rating, Add	1,144.68	
			For Class 55 Rating, Add	2,544.24	
40 05 19 00-1562	EA		48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,428.74	1,701.18
			For Class 52 Rating, Deduct	-1,743.63	
			For Class 54 Rating, Add	1,188.84	
			For Class 55 Rating, Add	2,642.40	
40 05 19 00-1563	EA		48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,017.38	1,703.19
			For Class 52 Rating, Deduct	-1,808.05	
			For Class 54 Rating, Add	1,232.76	
			For Class 55 Rating, Add	2,740.01	
40 05 19 00-1564	EA		48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,604.43	1,705.18
			For Class 52 Rating, Deduct	-1,872.29	
			For Class 54 Rating, Add	1,276.56	
			For Class 55 Rating, Add	2,837.37	
40 05 19 00-1565	EA		48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,196.27	1,707.20
			For Class 52 Rating, Deduct	-1,937.06	
			For Class 54 Rating, Add	1,320.72	
			For Class 55 Rating, Add	2,935.52	
40 05 19 00-1566	EA		48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,784.11	1,709.21
			For Class 52 Rating, Deduct	-2,001.38	
			For Class 54 Rating, Add	1,364.58	
			For Class 55 Rating, Add	3,033.01	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1567	EA		48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,371.15	1,711.22
			For Class 52 Rating, Deduct	-2,065.62	
			For Class 54 Rating, Add	1,408.38	
			For Class 55 Rating, Add	3,130.36	
40 05 19 00-1568	EA		48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,963.00	1,713.22
			For Class 52 Rating, Deduct	-2,130.39	
			For Class 54 Rating, Add	1,452.54	
			For Class 55 Rating, Add	3,228.51	
40 05 19 00-1569	EA		48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,550.84	1,715.23
			For Class 52 Rating, Deduct	-2,194.72	
			For Class 54 Rating, Add	1,496.40	
			For Class 55 Rating, Add	3,326.00	
40 05 19 00-1570	EA		48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,066.68	1,717.25
			For Class 52 Rating, Deduct	-2,251.13	
			For Class 54 Rating, Add	1,534.86	
			For Class 55 Rating, Add	3,411.48	
40 05 19 00-1571	EA		48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,730.52	1,719.25
			For Class 52 Rating, Deduct	-2,323.82	
			For Class 54 Rating, Add	1,584.42	
			For Class 55 Rating, Add	3,521.64	
40 05 19 00-1572	EA		48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,317.57	1,721.26
			For Class 52 Rating, Deduct	-2,388.06	
			For Class 54 Rating, Add	1,628.22	
			For Class 55 Rating, Add	3,618.99	
40 05 19 00-1573	EA		48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,910.21	1,723.27
			For Class 52 Rating, Deduct	-2,452.91	
			For Class 54 Rating, Add	1,672.44	
			For Class 55 Rating, Add	3,717.28	
40 05 19 00-1574	EA		48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,497.25	1,725.28
			For Class 52 Rating, Deduct	-2,517.15	
			For Class 54 Rating, Add	1,716.24	
			For Class 55 Rating, Add	3,814.63	
40 05 19 00-1575	EA		48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,084.30	1,727.28
			For Class 52 Rating, Deduct	-2,581.39	
			For Class 54 Rating, Add	1,760.04	
			For Class 55 Rating, Add	3,911.98	
40 05 19 00-1576	EA		48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,676.95	1,729.29
			For Class 52 Rating, Deduct	-2,646.25	
			For Class 54 Rating, Add	1,804.26	
			For Class 55 Rating, Add	4,010.27	
40 05 19 00-1577	EA		48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,263.99	1,731.31
			For Class 52 Rating, Deduct	-2,710.49	
			For Class 54 Rating, Add	1,848.06	
			For Class 55 Rating, Add	4,107.62	
40 05 19 00-1578	EA		48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,851.83	1,733.31
			For Class 52 Rating, Deduct	-2,774.82	
			For Class 54 Rating, Add	1,891.92	
			For Class 55 Rating, Add	4,205.11	
40 05 19 00-1579	EA		48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,443.67	1,735.32
			For Class 52 Rating, Deduct	-2,839.58	
			For Class 54 Rating, Add	1,936.08	
			For Class 55 Rating, Add	4,303.26	

40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows (40 05 19 00-0001)

40 05 19 00-1581	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	256.42	96.90
40 05 19 00-1582	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	357.35	123.91
40 05 19 00-1583	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	491.86	140.36
40 05 19 00-1584	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	712.81	177.94
40 05 19 00-1585	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	876.58	197.32
40 05 19 00-1586	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,084.78	214.35
40 05 19 00-1587	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,336.41	264.28
40 05 19 00-1588	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,746.10	317.13
40 05 19 00-1589	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,153.07	399.35
40 05 19 00-1590	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,237.15	452.20
40 05 19 00-1591	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	5,404.40	599.02
40 05 19 00-1592	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	7,618.93	678.30
40 05 19 00-1593	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	12,671.35	775.20
40 05 19 00-1594	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	16,851.89	951.39

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
40 05 19 00-1595 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree**Elbows (40 05 19 00-0001)**

40 05 19 00-1596	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	244.42	96.90
40 05 19 00-1597	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	338.15	123.91
40 05 19 00-1598	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	443.06	140.36
40 05 19 00-1599	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	642.41	177.94
40 05 19 00-1600	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	786.98	197.32
40 05 19 00-1601	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	902.38	214.35
40 05 19 00-1602	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,134.81	264.28
40 05 19 00-1603	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,474.90	317.13
40 05 19 00-1604	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,905.87	399.35
40 05 19 00-1605	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,491.55	452.20
40 05 19 00-1606	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	4,858.80	599.02
40 05 19 00-1607	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	7,220.53	678.30
40 05 19 00-1608	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	10,958.55	775.20
40 05 19 00-1609	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	14,914.29	951.39

40 05 19 00-1610 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree**Elbows (40 05 19 00-0001)**

40 05 19 00-1611	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	243.62	96.90
40 05 19 00-1612	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	331.75	123.91
40 05 19 00-1613	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	437.46	140.36
40 05 19 00-1614	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	626.41	177.94
40 05 19 00-1615	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	822.18	197.32
40 05 19 00-1616	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,013.58	214.35
40 05 19 00-1617	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,159.61	264.28
40 05 19 00-1618	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,505.30	317.13
40 05 19 00-1619	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,037.87	399.35
40 05 19 00-1620	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,792.35	452.20
40 05 19 00-1621	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	4,912.40	599.02
40 05 19 00-1622	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	7,343.73	678.30
40 05 19 00-1623	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	11,204.15	775.20
40 05 19 00-1624	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	15,234.29	951.39

40 05 19 00-1625 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree**Elbows (40 05 19 00-0001)**

40 05 19 00-1626	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	263.62	96.90
40 05 19 00-1627	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	369.35	123.91
40 05 19 00-1628	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	453.46	140.36
40 05 19 00-1629	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	683.21	177.94
40 05 19 00-1630	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	926.98	197.32
40 05 19 00-1631	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,040.78	214.35
40 05 19 00-1632	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,273.21	264.28
40 05 19 00-1633	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,505.30	317.13
40 05 19 00-1634	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,037.87	399.35
40 05 19 00-1635	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,900.35	452.20
40 05 19 00-1636	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,966.00	599.02
40 05 19 00-1637	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	7,396.53	678.30
40 05 19 00-1638	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	11,260.15	775.20
40 05 19 00-1639	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	15,347.09	951.39

40 05 19 00-1640 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90**Degree Elbows (40 05 19 00-0001)**

40 05 19 00-1641	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	336.08	110.40
40 05 19 00-1642	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	410.14	118.63
40 05 19 00-1643	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	461.81	132.13
40 05 19 00-1644	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	606.61	137.43
40 05 19 00-1645	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	642.28	150.93
40 05 19 00-1646	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	700.34	159.16
40 05 19 00-1647	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	652.14	147.41
40 05 19 00-1648	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	733.40	160.91
40 05 19 00-1649	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	838.66	169.14
40 05 19 00-1650	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	895.94	187.93
40 05 19 00-1651	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	838.66	169.14
40 05 19 00-1652	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	926.32	177.36
40 05 19 00-1653	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,031.59	196.15
40 05 19 00-1654	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,138.72	206.13
40 05 19 00-1655	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	966.88	194.09
40 05 19 00-1656	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,040.94	202.32
40 05 19 00-1657	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,191.81	221.11
40 05 19 00-1658	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,297.70	230.80
40 05 19 00-1659	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,387.40	239.31
40 05 19 00-1660	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,129.33	220.52
40 05 19 00-1661	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,340.98	228.74
40 05 19 00-1662	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,384.65	247.53
40 05 19 00-1663	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,460.93	257.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,581.03	265.75
40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,724.45	290.70
40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,450.81	261.63
40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,545.67	269.85
40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,902.94	288.65
40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,974.42	298.34
40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,171.33	306.85
40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,133.14	331.81
40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,272.38	358.23
40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,017.25	288.06
40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,112.90	296.28
40 05 19 00-1675 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,272.58	315.07
40 05 19 00-1676 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,386.47	324.77
40 05 19 00-1677 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,596.97	333.28
40 05 19 00-1678 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,798.78	358.23
40 05 19 00-1679 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,871.62	384.66
40 05 19 00-1680 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,013.17	380.41
40 05 19 00-1681 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,566.48	398.17
40 05 19 00-1682 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,791.39	406.69
40 05 19 00-1683 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,266.01	431.64
40 05 19 00-1684 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,946.05	458.07
40 05 19 00-1685 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,709.93	499.18
40 05 19 00-1686 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,029.98	525.61
40 05 19 00-1687 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,880.15	437.81
40 05 19 00-1688 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,285.05	446.33
40 05 19 00-1689 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,142.87	471.29
40 05 19 00-1690 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,680.52	497.71
40 05 19 00-1691 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,409.20	538.82
40 05 19 00-1692 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,981.24	565.25
40 05 19 00-1693 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,458.86	638.66
40 05 19 00-1694 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,550.46	494.78
40 05 19 00-1695 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,241.88	519.73
40 05 19 00-1696 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,708.32	546.16
40 05 19 00-1697 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,568.21	587.27
40 05 19 00-1698 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,381.85	613.70
40 05 19 00-1699 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,865.87	687.11
40 05 19 00-1700 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,858.74	726.74
40 05 19 00-1701 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,268.04	709.13
40 05 19 00-1702 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,432.87	782.54
40 05 19 00-1703 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,860.93	822.18
40 05 19 00-1704 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,949.54	870.64
40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1706 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	300.42	96.90
40 05 19 00-1707 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	455.75	123.91
40 05 19 00-1708 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	656.66	140.36
40 05 19 00-1709 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	927.21	177.94
40 05 19 00-1710 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,293.38	197.32
40 05 19 00-1711 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,503.18	214.35
40 05 19 00-1712 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,946.01	264.28
40 05 19 00-1713 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,407.70	317.13
40 05 19 00-1714 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,273.07	399.35
40 05 19 00-1715 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,768.35	452.20
40 05 19 00-1716 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	8,334.80	599.02
40 05 19 00-1717 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	12,618.13	678.30
40 05 19 00-1718 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	19,483.35	775.20
40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)		
40 05 19 00-1720 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	315.62	96.90
40 05 19 00-1721 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	426.15	123.91
40 05 19 00-1722 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	677.46	140.36
40 05 19 00-1723 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	912.01	177.94
40 05 19 00-1724 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,212.58	197.32
40 05 19 00-1725 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,426.38	214.35
40 05 19 00-1726 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,762.01	264.28
40 05 19 00-1727 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,209.30	317.13
40 05 19 00-1728 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,909.87	399.35
40 05 19 00-1729 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,077.15	452.20
40 05 19 00-1730 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	6,641.20	599.02
40 05 19 00-1731 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	9,442.93	678.30
40 05 19 00-1732 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	17,393.75	775.20
40 05 19 00-1733 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	18,790.29	951.39
40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)		
40 05 19 00-1735 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	435.80	155.63

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1736 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	539.67	191.45
40 05 19 00-1737 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	740.69	213.77
40 05 19 00-1738 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,054.48	277.78
40 05 19 00-1739 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,380.74	303.04
40 05 19 00-1740 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,824.24	325.94
40 05 19 00-1741 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	2,079.67	411.09
40 05 19 00-1742 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	2,526.25	469.82
40 05 19 00-1743 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	3,186.70	593.14
40 05 19 00-1744 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	4,625.73	654.80
40 05 19 00-1745 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	7,807.90	904.40
40 05 19 00-1746 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	11,172.11	1,036.53
40 05 19 00-1747 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	22,814.41	1,198.03

40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees

(40 05 19 00-0001)

40 05 19 00-1749 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	539.38	173.83
40 05 19 00-1750 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	655.92	177.36
40 05 19 00-1751 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	662.53	199.67
40 05 19 00-1752 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	853.19	196.15
40 05 19 00-1753 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	850.21	218.46
40 05 19 00-1754 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	897.16	232.56
40 05 19 00-1755 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,068.32	206.13
40 05 19 00-1756 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,072.54	228.44
40 05 19 00-1757 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,133.09	242.55
40 05 19 00-1758 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,349.60	287.76
40 05 19 00-1759 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,530.38	214.35
40 05 19 00-1760 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,505.79	236.67
40 05 19 00-1761 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,573.55	250.77
40 05 19 00-1762 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,671.66	295.99
40 05 19 00-1763 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,772.04	311.55
40 05 19 00-1764 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,849.80	239.31
40 05 19 00-1765 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,717.21	261.63
40 05 19 00-1766 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,695.36	275.73
40 05 19 00-1767 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,988.68	320.94
40 05 19 00-1768 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,937.86	336.50
40 05 19 00-1769 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,153.26	350.89
40 05 19 00-1770 EA 18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,253.83	265.75
40 05 19 00-1771 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,726.05	288.06
40 05 19 00-1772 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,065.01	302.15
40 05 19 00-1773 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,086.32	347.37
40 05 19 00-1774 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,265.90	362.93
40 05 19 00-1775 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,467.70	377.32
40 05 19 00-1776 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,650.91	437.52
40 05 19 00-1777 EA 20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,893.73	306.85
40 05 19 00-1778 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,508.33	329.16
40 05 19 00-1779 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,562.49	343.26
40 05 19 00-1780 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,680.61	388.48
40 05 19 00-1781 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,785.79	404.05
40 05 19 00-1782 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,824.38	418.44
40 05 19 00-1783 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,393.19	478.63
40 05 19 00-1784 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,474.93	510.92
40 05 19 00-1785 EA 24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,288.17	333.28
40 05 19 00-1786 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,861.18	355.59
40 05 19 00-1787 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,990.53	369.68
40 05 19 00-1788 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,119.05	414.91
40 05 19 00-1789 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,485.03	430.47
40 05 19 00-1790 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,572.43	444.86
40 05 19 00-1791 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,706.83	505.05
40 05 19 00-1792 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,831.77	537.35
40 05 19 00-1793 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,003.61	574.21
40 05 19 00-1794 EA 30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,784.41	429.00
40 05 19 00-1795 EA 30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,822.56	443.09
40 05 19 00-1796 EA 30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,997.48	488.32
40 05 19 00-1797 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,021.05	503.88
40 05 19 00-1798 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,042.86	518.27
40 05 19 00-1799 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,186.86	578.46
40 05 19 00-1800 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,271.00	610.76
40 05 19 00-1801 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,482.77	692.98
40 05 19 00-1802 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,248.16	728.21
40 05 19 00-1803 EA 36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	7,986.29	614.00
40 05 19 00-1804 EA 36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,533.60	625.15
40 05 19 00-1805 EA 36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,599.69	657.16
40 05 19 00-1806 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,671.62	669.78
40 05 19 00-1807 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,706.58	681.24
40 05 19 00-1808 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,806.28	723.82
40 05 19 00-1809 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,868.38	753.18
40 05 19 00-1810 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,032.20	814.84
40 05 19 00-1811 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,238.12	845.67
40 05 19 00-1812 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,054.40	970.46
40 05 19 00-1813 EA 42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,104.83	531.19
40 05 19 00-1814 EA 42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,784.55	576.41



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1815	EA		42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,808.13	591.97
40 05 19 00-1816	EA		42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,848.32	606.36
40 05 19 00-1817	EA		42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,977.13	666.55
40 05 19 00-1818	EA		42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,120.47	698.86
40 05 19 00-1819	EA		42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,245.04	781.07
40 05 19 00-1820	EA		42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,448.83	816.31
40 05 19 00-1821	EA		42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,026.97	992.49
40 05 19 00-1822	EA		42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,815.11	1,084.99
40 05 19 00-1823	EA		48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,280.72	687.40
40 05 19 00-1824	EA		48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,302.52	701.79
40 05 19 00-1825	EA		48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,449.72	761.99
40 05 19 00-1826	EA		48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,498.66	794.29
40 05 19 00-1827	EA		48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,697.63	876.51
40 05 19 00-1828	EA		48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,883.02	911.74
40 05 19 00-1829	EA		48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	18,413.97	1,087.92
40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-0001)					
40 05 19 00-1831	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	466.20	155.63
40 05 19 00-1832	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	626.87	191.45
40 05 19 00-1833	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	891.09	213.77
40 05 19 00-1834	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,338.48	277.78
40 05 19 00-1835	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,774.34	303.04
40 05 19 00-1836	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,977.84	325.94
40 05 19 00-1837	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	2,457.27	411.09
40 05 19 00-1838	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	2,975.05	469.82
40 05 19 00-1839	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	3,961.10	593.14
40 05 19 00-1840	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	5,635.33	654.80
40 05 19 00-1841	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	9,379.90	904.40
40 05 19 00-1842	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	13,283.31	1,036.53
40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-0001)					
40 05 19 00-1844	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	389.40	155.63
40 05 19 00-1845	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	535.67	191.45
40 05 19 00-1846	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	752.69	213.77
40 05 19 00-1847	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	988.08	277.78
40 05 19 00-1848	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,376.74	303.04
40 05 19 00-1849	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,763.44	325.94
40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-0001)					
40 05 19 00-1851	EA		4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	535.18	214.35
40 05 19 00-1852	EA		6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	688.72	232.27
40 05 19 00-1853	EA		6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	734.01	258.98
40 05 19 00-1854	EA		8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	832.10	236.08
40 05 19 00-1855	EA		8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	910.46	267.20
40 05 19 00-1856	EA		8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	946.32	287.18
40 05 19 00-1857	EA		10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,058.97	254.88
40 05 19 00-1858	EA		10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,167.73	286.00
40 05 19 00-1859	EA		10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,274.79	305.97
40 05 19 00-1860	EA		10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,581.74	377.62
40 05 19 00-1861	EA		12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,348.86	264.56
40 05 19 00-1862	EA		12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,426.42	295.69
40 05 19 00-1863	EA		12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,534.27	315.66
40 05 19 00-1864	EA		12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,856.43	387.30
40 05 19 00-1865	EA		12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,763.31	408.74
40 05 19 00-1866	EA		14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,684.12	304.21
40 05 19 00-1867	EA		14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,791.17	324.17
40 05 19 00-1868	EA		14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,006.93	395.82
40 05 19 00-1869	EA		14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,177.81	417.25
40 05 19 00-1870	EA		14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,284.51	437.52
40 05 19 00-1871	EA		16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,997.93	329.16
40 05 19 00-1872	EA		16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,119.39	349.14
40 05 19 00-1873	EA		16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,335.14	420.78
40 05 19 00-1874	EA		16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,521.23	442.22
40 05 19 00-1875	EA		16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,463.13	462.48
40 05 19 00-1876	EA		16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,879.71	557.91
40 05 19 00-1877	EA		18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,084.38	355.59
40 05 19 00-1878	EA		18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,205.04	375.56
40 05 19 00-1879	EA		18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,390.39	447.21
40 05 19 00-1880	EA		18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,575.66	468.65
40 05 19 00-1881	EA		18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,942.36	488.91
40 05 19 00-1882	EA		18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,225.36	584.33
40 05 19 00-1883	EA		18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,375.20	622.51
40 05 19 00-1884	EA		20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,693.07	396.71
40 05 19 00-1885	EA		20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,821.72	416.67
40 05 19 00-1886	EA		20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,995.88	488.32
40 05 19 00-1887	EA		20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,193.15	509.75

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,256.65	530.01
40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,961.25	625.45
40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,117.48	663.61
40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,535.54	786.95
40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,523.50	423.13
40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,618.56	443.09
40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,842.31	514.75
40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,974.00	536.18
40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,054.30	556.44
40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,314.08	651.87
40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,541.52	690.05
40 05 19 00-1899 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,872.45	768.01
40 05 19 00-1900 EA 24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,469.52	857.42
40 05 19 00-1901 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,446.02	609.59
40 05 19 00-1902 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,494.32	629.85
40 05 19 00-1903 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,762.11	725.29
40 05 19 00-1904 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,855.15	763.45
40 05 19 00-1905 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,236.40	886.78
40 05 19 00-1906 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,331.95	930.83
40 05 19 00-1907 EA 30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,653.00	1,209.78
40 05 19 00-1908 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,077.39	775.50
40 05 19 00-1909 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,103.64	792.82
40 05 19 00-1910 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,328.74	870.64
40 05 19 00-1911 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,416.53	905.87
40 05 19 00-1912 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,731.44	1,008.64
40 05 19 00-1913 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,073.91	1,048.28
40 05 19 00-1914 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,575.50	1,275.85
40 05 19 00-1915 EA 36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	14,884.49	1,394.77
40 05 19 00-1916 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,250.69	697.68
40 05 19 00-1917 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,281.39	717.94
40 05 19 00-1918 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,538.79	813.37
40 05 19 00-1919 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,615.02	851.55
40 05 19 00-1920 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,971.48	974.87
40 05 19 00-1921 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	14,320.61	1,018.92
40 05 19 00-1922 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,430.47	1,297.87
40 05 19 00-1923 EA 42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	25,349.90	1,443.22
40 05 19 00-1924 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,976.67	1,620.87
40 05 19 00-1925 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	17,733.99	813.37
40 05 19 00-1926 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	17,992.17	908.80
40 05 19 00-1927 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,068.41	946.98
40 05 19 00-1928 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,405.68	1,070.30
40 05 19 00-1929 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,754.81	1,114.35
40 05 19 00-1930 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	19,685.47	1,393.31

40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers

(40 05 19 00-0001)

40 05 19 00-1932 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	284.08	110.40
40 05 19 00-1933 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	354.94	118.63
40 05 19 00-1934 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	391.41	132.13
40 05 19 00-1935 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	469.81	137.43
40 05 19 00-1936 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	478.28	150.93
40 05 19 00-1937 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	553.14	159.16
40 05 19 00-1938 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	590.54	147.41
40 05 19 00-1939 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	613.40	160.91
40 05 19 00-1940 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	669.86	169.14
40 05 19 00-1941 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	752.74	187.93
40 05 19 00-1942 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	899.80	160.91
40 05 19 00-1943 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	730.66	169.14
40 05 19 00-1944 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	804.72	177.36
40 05 19 00-1945 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	885.19	196.15
40 05 19 00-1946 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	865.92	206.13
40 05 19 00-1947 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,061.62	180.59
40 05 19 00-1948 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	876.48	194.09
40 05 19 00-1949 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	834.54	202.32
40 05 19 00-1950 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	928.61	221.11
40 05 19 00-1951 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,136.10	230.80
40 05 19 00-1952 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,219.40	239.31
40 05 19 00-1953 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,340.53	220.52
40 05 19 00-1954 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,080.98	228.74
40 05 19 00-1955 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,186.25	247.53
40 05 19 00-1956 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,182.53	257.22
40 05 19 00-1957 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,350.63	265.75
40 05 19 00-1958 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,357.25	290.70
40 05 19 00-1959 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,384.41	261.63
40 05 19 00-1960 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,348.07	269.85
40 05 19 00-1961 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,458.94	288.65
40 05 19 00-1962 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,428.02	298.34
40 05 19 00-1963 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,635.33	306.85
40 05 19 00-1964 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,549.94	331.81
40 05 19 00-1965 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,893.98	358.23



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1966	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,799.30	296.28
40 05 19 00-1967	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,025.38	315.07
40 05 19 00-1968	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,173.67	324.77
40 05 19 00-1969	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,231.37	333.28
40 05 19 00-1970	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,996.38	358.23
40 05 19 00-1971	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,394.02	384.66
40 05 19 00-1972	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,519.57	380.41
40 05 19 00-1973	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,406.01	431.64
40 05 19 00-1974	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,552.45	458.07
40 05 19 00-1975	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,826.73	499.18
40 05 19 00-1976	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,219.58	525.61
40 05 19 00-1977	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,613.27	471.29
40 05 19 00-1978	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,846.92	497.71
40 05 19 00-1979	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,156.40	538.82
40 05 19 00-1980	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,602.84	565.25
40 05 19 00-1981	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,454.86	638.66
40 05 19 00-1982	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,779.45	613.70
40 05 19 00-1983	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,793.07	687.11
40 05 19 00-1984	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,925.94	726.74
40 05 19 00-1985	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,861.64	709.13
40 05 19 00-1986	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	11,064.07	782.54
40 05 19 00-1987	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,347.33	822.18
40 05 19 00-1988	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	13,813.54	870.64

40 05 19 00-1989

Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)

40 05 19 00-1990	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	305.68	110.40
40 05 19 00-1991	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	379.74	118.63
40 05 19 00-1992	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	430.61	132.13
40 05 19 00-1993	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	469.81	137.43
40 05 19 00-1994	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	504.68	150.93
40 05 19 00-1995	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	577.94	159.16
40 05 19 00-1996	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	590.54	147.41
40 05 19 00-1997	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	642.20	160.91
40 05 19 00-1998	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	700.26	169.14
40 05 19 00-1999	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	805.54	187.93
40 05 19 00-2000	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	730.66	169.14
40 05 19 00-2001	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	789.52	177.36
40 05 19 00-2002	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	879.59	196.15
40 05 19 00-2003	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,001.12	206.13
40 05 19 00-2004	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	876.48	194.09
40 05 19 00-2005	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	948.94	202.32
40 05 19 00-2006	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,054.21	221.11
40 05 19 00-2007	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,160.90	230.80
40 05 19 00-2008	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,219.40	239.31
40 05 19 00-2009	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,080.98	228.74
40 05 19 00-2010	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,186.25	247.53
40 05 19 00-2011	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,292.93	257.22
40 05 19 00-2012	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,350.63	265.75
40 05 19 00-2013	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,480.45	290.70
40 05 19 00-2014	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,555.61	261.63
40 05 19 00-2015	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,430.47	269.85
40 05 19 00-2016	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,458.94	288.65
40 05 19 00-2017	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,588.82	298.34
40 05 19 00-2018	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,635.33	306.85
40 05 19 00-2019	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,786.74	331.81
40 05 19 00-2020	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,893.18	358.23
40 05 19 00-2021	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,964.10	296.28
40 05 19 00-2022	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,025.38	315.07
40 05 19 00-2023	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,072.87	324.77
40 05 19 00-2024	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,118.57	333.28
40 05 19 00-2025	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,272.38	358.23
40 05 19 00-2026	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,394.02	384.66
40 05 19 00-2027	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,519.57	380.41
40 05 19 00-2028	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,039.39	406.69
40 05 19 00-2029	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,953.21	431.64
40 05 19 00-2030	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,570.05	458.07
40 05 19 00-2031	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,826.73	499.18
40 05 19 00-2032	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,219.58	525.61
40 05 19 00-2033	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,648.47	471.29
40 05 19 00-2034	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,846.92	497.71
40 05 19 00-2035	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,138.80	538.82
40 05 19 00-2036	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,583.64	565.25
40 05 19 00-2037	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,437.26	638.66
40 05 19 00-2038	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,779.45	613.70
40 05 19 00-2039	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,793.07	687.11
40 05 19 00-2040	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	9,925.94	726.74
40 05 19 00-2041	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	11,064.07	782.54
40 05 19 00-2042	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,347.33	822.18
40 05 19 00-2043	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	13,813.54	870.64

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40					
05 19 00-0001)					
40 05 19 00-2045	EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	108.24		38.18	
40 05 19 00-2046	EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	162.22		56.38	
40 05 19 00-2047	EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	230.23		66.95	
40 05 19 00-2048	EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	311.95		78.11	
40 05 19 00-2049	EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	399.61		91.61	
40 05 19 00-2050	EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	522.11		102.78	
40 05 19 00-2051	EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	621.96		117.45	
40 05 19 00-2052	EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	844.35		164.44	
40 05 19 00-2053	EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,117.03		205.54	
40 05 19 00-2054	EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,576.57		249.59	
40 05 19 00-2055	EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,202.05		290.70	
40 05 19 00-2056	EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	3,865.75		320.07	
40 05 19 00-2057	EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	5,417.08		352.36	
40 05 19 00-2058	EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	7,135.82		396.41	
40 05 19 00-2059 Ductile Iron Bolt Packs (40 05 19					
Note: Labor installation is included with pipe fittings or valves.					
40 05 19 00-2060	EA 4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	34.34			
Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		9.62			
For Hot Dip Galvanized, Add		13.74			
40 05 19 00-2061	EA 6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	53.00			
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		14.84			
For Hot Dip Galvanized, Add		21.20			
40 05 19 00-2062	EA 8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	57.55			
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		16.11			
For Hot Dip Galvanized, Add		23.02			
40 05 19 00-2063	EA 10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	129.26			
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		36.19			
For Hot Dip Galvanized, Add		51.70			
40 05 19 00-2064	EA 12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	130.39			
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		36.51			
For Hot Dip Galvanized, Add		52.16			
40 05 19 00-2065	EA 14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	146.09			
Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		40.91			
For Hot Dip Galvanized, Add		58.44			
40 05 19 00-2066	EA 16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	245.59			
Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		68.77			
For Hot Dip Galvanized, Add		98.24			
40 05 19 00-2067	EA 18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	356.78			
Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		99.90			
For Hot Dip Galvanized, Add		142.71			
40 05 19 00-2068	EA 20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	450.48			
Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		126.13			
For Hot Dip Galvanized, Add		180.19			
40 05 19 00-2069	EA 24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	644.56			
Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		180.48			
For Hot Dip Galvanized, Add		257.82			
40 05 19 00-2070	EA 30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,018.50			
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		285.18			
For Hot Dip Galvanized, Add		407.40			
40 05 19 00-2071	EA 36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,452.91			
Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		406.81			
For Hot Dip Galvanized, Add		581.16			
40 05 19 00-2072	EA 42" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,869.12			
Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		523.35			
For Hot Dip Galvanized, Add		747.65			
40 05 19 00-2073	EA 48" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,284.49			
Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add		639.66			
For Hot Dip Galvanized, Add		913.80			
40 05 19 00-2074 Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 (40 05 19)					
Note: Labor installation is included with pipe fittings or valves.					
40 05 19 00-2075 Full Face Flange Styrene Butadiene (SBR) Gaskets (40 05 19 00-2074)					
40 05 19 00-2076	EA 4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	6.15			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2077 EA 6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	7.82	
40 05 19 00-2078 EA 8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	10.62	
40 05 19 00-2079 EA 10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	12.29	
40 05 19 00-2080 EA 12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	13.41	
40 05 19 00-2081 EA 14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	22.35	
40 05 19 00-2082 EA 16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	27.38	
40 05 19 00-2083 EA 18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	29.06	
40 05 19 00-2084 EA 20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	44.70	
40 05 19 00-2085 EA 24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	48.05	
40 05 19 00-2086 EA 30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	62.02	
40 05 19 00-2087 EA 36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	70.96	
40 05 19 00-2088 EA 42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	75.99	
40 05 19 00-2089 EA 48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	83.25	
40 05 19 00-2090 Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-2074)		
Note: (Acrylonitrile Butadiene)		
40 05 19 00-2091 EA 4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	19.00	
40 05 19 00-2092 EA 6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	26.82	
40 05 19 00-2093 EA 8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	41.35	
40 05 19 00-2094 EA 10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	45.26	
40 05 19 00-2095 EA 12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	48.61	
40 05 19 00-2096 EA 14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	91.64	
40 05 19 00-2097 EA 16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	112.87	
40 05 19 00-2098 EA 18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	113.43	
40 05 19 00-2099 EA 20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	117.90	
40 05 19 00-2100 EA 24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	124.60	
40 05 19 00-2101 EA 30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	138.01	
40 05 19 00-2102 EA 36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	151.98	
40 05 19 00-2103 EA 42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	216.24	
40 05 19 00-2104 EA 48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	236.35	
40 05 19 00-2105 Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-2074)		
40 05 19 00-2106 EA 4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	16.76	
40 05 19 00-2107 EA 6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	21.79	
40 05 19 00-2108 EA 8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	29.61	
40 05 19 00-2109 EA 10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	34.64	
40 05 19 00-2110 EA 12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	38.55	
40 05 19 00-2111 EA 14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	63.70	
40 05 19 00-2112 EA 16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	76.55	
40 05 19 00-2113 EA 18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	77.11	
40 05 19 00-2114 EA 20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	78.78	
40 05 19 00-2115 EA 24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	91.64	
40 05 19 00-2116 EA 30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	112.31	
40 05 19 00-2117 EA 36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	127.95	
40 05 19 00-2118 EA 42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	183.27	
40 05 19 00-2119 EA 48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	202.27	
40 05 19 00-2120 Full Face Flange Neoprene Gaskets (40 05 19 00-2074)		
Note: (Polychloroprene)		
40 05 19 00-2121 EA 4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	19.56	
40 05 19 00-2122 EA 6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	27.38	
40 05 19 00-2123 EA 8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	41.91	
40 05 19 00-2124 EA 10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	45.26	
40 05 19 00-2125 EA 12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	48.61	
40 05 19 00-2126 EA 14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	64.82	
40 05 19 00-2127 EA 16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	113.98	
40 05 19 00-2128 EA 18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	114.54	
40 05 19 00-2129 EA 20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	121.25	
40 05 19 00-2130 EA 24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	122.92	
40 05 19 00-2131 EA 30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	133.54	
40 05 19 00-2132 EA 36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	150.30	
40 05 19 00-2133 EA 42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	217.91	
40 05 19 00-2134 EA 48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	238.59	
40 05 19 00-2135 Full Face Flange FKM Gaskets (40 05 19 00-2074)		
Note: (Fluoroelastomer Fluorel Viton®)		
40 05 19 00-2136 EA 4" Full Face Flange FKM Gasket, 1/8" Thick.....	45.00	
40 05 19 00-2137 EA 6" Full Face Flange FKM Gasket, 1/8" Thick.....	67.00	
40 05 19 00-2138 EA 8" Full Face Flange FKM Gasket, 1/8" Thick.....	89.50	
40 05 19 00-2139 EA 10" Full Face Flange FKM Gasket, 1/8" Thick.....	108.00	
40 05 19 00-2140 EA 12" Full Face Flange FKM Gasket, 1/8" Thick.....	140.50	
40 05 19 00-2141 EA 14" Full Face Flange FKM Gasket, 1/8" Thick.....	257.00	
40 05 19 00-2142 EA 16" Full Face Flange FKM Gasket, 1/8" Thick.....	294.50	
40 05 19 00-2143 EA 18" Full Face Flange FKM Gasket, 1/8" Thick.....	308.50	
40 05 19 00-2144 EA 20" Full Face Flange FKM Gasket, 1/8" Thick.....	329.00	
40 05 19 00-2145 EA 24" Full Face Flange FKM Gasket, 1/8" Thick.....	455.00	
40 05 19 00-2146 EA 30" Full Face Flange FKM Gasket, 1/8" Thick.....	545.50	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2147	EA	36" Full Face Flange FKM Gasket, 1/8" Thick	575.50		
40 05 19 00-2148	EA	42" Full Face Flange FKM Gasket, 1/8" Thick	717.50		
40 05 19 00-2149	EA	48" Full Face Flange FKM Gasket, 1/8" Thick	752.00		
40 05 19 00-2150 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)					
40 05 19 00-2151	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	253.62	56.43	
40 05 19 00-2152	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	348.20	68.89	
40 05 19 00-2153	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	508.91	84.02	
40 05 19 00-2154	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	694.33	102.50	
40 05 19 00-2155	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	879.68	124.99	
40 05 19 00-2156	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,395.81	152.49	
40 05 19 00-2157	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,175.61	186.09	
40 05 19 00-2158	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,259.12	226.98	
40 05 19 00-2159	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,767.23	276.97	
40 05 19 00-2160	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,094.01	337.84	
40 05 19 00-2161	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,979.01	412.24	
40 05 19 00-2162	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	5,875.45	502.87	
40 05 19 00-2163	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	15,063.56	613.55	
40 05 19 00-2164	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	19,228.20	748.48	
40 05 23 Stainless Steel Process Pipe and Tubing (40 05)					
40 05 23 43 Stainless Steel Process Pipe (40 05 23)					
40 05 23 43-0001 Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly (40 05 23)					
Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.					
40 05 23 43-0002	LF	1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	26.74	7.59	
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Type 316, Add					
For Work In Restricted Working Space, Add					
40 05 23 43-0003	LF	3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	30.16	8.70	
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Type 316, Add					
For Work In Restricted Working Space, Add					
40 05 23 43-0004	LF	1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	35.13	9.81	
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Type 316, Add					
For Work In Restricted Working Space, Add					
40 05 23 43-0005	LF	1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	40.43	11.85	
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Type 316, Add					
For Work In Restricted Working Space, Add					
40 05 23 43-0006	LF	1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	44.66	12.19	
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Type 316, Add					
For Work In Restricted Working Space, Add					
40 05 23 43-0007	LF	2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	54.11	16.10	
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Type 316, Add					
For Work In Restricted Working Space, Add					
40 05 23 43-0008	LF	2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	78.99	19.86	
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Type 316, Add					
For Work In Restricted Working Space, Add					
40 05 23 43-0009	LF	3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	100.01	23.01	
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Type 316, Add					
For Work In Restricted Working Space, Add					
40 05 23 43-0010	LF	4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	136.45	23.01	
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.					
For Work In Restricted Working Space, Add					
40 05 23 43-0011 Stainless Steel Tubing And Fittings (40 05 23 43)					
40 05 23 43-0012 Type 304 Tubing (40 05 23 43-0011)					
40 05 23 43-0013 0.035" Wall (40 05 23 43-0012)					
40 05 23 43-0014	LF	1/4", 0.035" Wall, Type 304, Stainless Steel Tubing	6.44	2.50	
For Work In Restricted Working Space, Add					
40 05 23 43-0015	LF	3/8", 0.035" Wall, Type 304, Stainless Steel Tubing	7.51	2.96	
For Work In Restricted Working Space, Add					
40 05 23 43-0016	LF	1/2", 0.035" Wall, Type 304, Stainless Steel Tubing	8.94	3.52	
For Work In Restricted Working Space, Add					
40 05 23 43-0017	LF	5/8", 0.035" Wall, Type 304, Stainless Steel Tubing	13.98	3.98	
For Work In Restricted Working Space, Add					
40 05 23 43-0018	LF	3/4", 0.035" Wall, Type 304, Stainless Steel Tubing	16.50	4.45	
For Work In Restricted Working Space, Add					
40 05 23 43-0019	LF	7/8", 0.035" Wall, Type 304, Stainless Steel Tubing	18.26	5.00	
For Work In Restricted Working Space, Add					
40 05 23 43-0020	LF	1", 0.035" Wall, Type 304, Stainless Steel Tubing	20.55	6.02	
For Work In Restricted Working Space, Add					



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Stainless Steel Process Pipe and Tubing			40 05 23

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 23 43-0021 0.049" Wall (40 05 23 43-0012)					
40 05 23 43-0022	LF 1/4", 0.049" Wall, Type 304, Stainless Steel Tubing.....	10.34		2.96	
	For Work In Restricted Working Space, Add	1.79			
40 05 23 43-0023	LF 3/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	11.58		3.52	
	For Work In Restricted Working Space, Add	2.09			
40 05 23 43-0024	LF 1/2", 0.049" Wall, Type 304, Stainless Steel Tubing.....	13.85		3.98	
	For Work In Restricted Working Space, Add	2.39			
40 05 23 43-0025	LF 5/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	17.50		5.00	
	For Work In Restricted Working Space, Add	2.99			
40 05 23 43-0026	LF 3/4", 0.049" Wall, Type 304, Stainless Steel Tubing.....	20.12		6.02	
	For Work In Restricted Working Space, Add	3.58			
40 05 23 43-0027	LF 7/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	22.70		6.94	
	For Work In Restricted Working Space, Add	4.18			
40 05 23 43-0028	LF 1", 0.049" Wall, Type 304, Stainless Steel Tubing.....	26.15		7.87	
	For Work In Restricted Working Space, Add	4.75			
40 05 23 43-0029 0.065" Wall (40 05 23 43-0012)					
40 05 23 43-0030	LF 1/4", 0.065" Wall, Type 304, Stainless Steel Tubing.....	12.07		3.52	
	For Work In Restricted Working Space, Add	2.09			
40 05 23 43-0031	LF 3/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	13.88		3.98	
	For Work In Restricted Working Space, Add	2.39			
40 05 23 43-0032	LF 1/2", 0.065" Wall, Type 304, Stainless Steel Tubing.....	17.14		5.00	
	For Work In Restricted Working Space, Add	2.99			
40 05 23 43-0033	LF 5/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	20.18		6.02	
	For Work In Restricted Working Space, Add	3.58			
40 05 23 43-0034	LF 3/4", 0.065" Wall, Type 304, Stainless Steel Tubing.....	23.79		6.94	
	For Work In Restricted Working Space, Add	4.18			
40 05 23 43-0035	LF 7/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	27.30		7.87	
	For Work In Restricted Working Space, Add	4.75			
40 05 23 43-0036	LF 1", 0.065" Wall, Type 304, Stainless Steel Tubing.....	30.77		8.89	
	For Work In Restricted Working Space, Add	5.34			
40 05 23 43-0037 Type 304 Tube Fittings (40 05 23 43-0011)					
40 05 23 43-0038 90 Degree Elbows (40 05 23 43-0037)					
40 05 23 43-0039	EA 1/4", Type 304, Stainless Steel, 90 Degree Elbow.....	38.55		10.00	
	For Work In Restricted Working Space, Add	5.97			
40 05 23 43-0040	EA 3/8", Type 304, Stainless Steel, 90 Degree Elbow.....	45.30		10.93	
	For Work In Restricted Working Space, Add	6.54			
40 05 23 43-0041	EA 1/2", Type 304, Stainless Steel, 90 Degree Elbow.....	66.84		12.32	
	For Work In Restricted Working Space, Add	7.41			
40 05 23 43-0042	EA 5/8", Type 304, Stainless Steel, 90 Degree Elbow.....	71.61		13.80	
	For Work In Restricted Working Space, Add	8.29			
40 05 23 43-0043	EA 3/4", Type 304, Stainless Steel, 90 Degree Elbow.....	79.92		14.91	
	For Work In Restricted Working Space, Add	8.96			
40 05 23 43-0044	EA 7/8", Type 304, Stainless Steel, 90 Degree Elbow.....	107.85		16.57	
	For Work In Restricted Working Space, Add	9.92			
40 05 23 43-0045	EA 1", Type 304, Stainless Steel, 90 Degree Elbow.....	136.88		19.72	
	For Work In Restricted Working Space, Add	11.82			
40 05 23 43-0046 Union Tees (40 05 23 43-0037)					
40 05 23 43-0047	EA 1/4", Type 304, Stainless Steel, Union Tee.....	60.88		14.91	
	For Work In Restricted Working Space, Add	8.96			
40 05 23 43-0048	EA 3/8", Type 304, Stainless Steel, Union Tee.....	73.30		16.57	
	For Work In Restricted Working Space, Add	9.92			
40 05 23 43-0049	EA 1/2", Type 304, Stainless Steel, Union Tee.....	98.75		18.52	
	For Work In Restricted Working Space, Add	11.11			
40 05 23 43-0050	EA 5/8", Type 304, Stainless Steel, Union Tee.....	106.63		21.02	
	For Work In Restricted Working Space, Add	12.63			
40 05 23 43-0051	EA 3/4", Type 304, Stainless Steel, Union Tee.....	134.74		22.59	
	For Work In Restricted Working Space, Add	13.55			
40 05 23 43-0052	EA 7/8", Type 304, Stainless Steel, Union Tee.....	210.35		25.01	
	For Work In Restricted Working Space, Add	15.02			
40 05 23 43-0053	EA 1", Type 304, Stainless Steel, Union Tee.....	252.05		29.91	
	For Work In Restricted Working Space, Add	17.92			
40 05 23 43-0054 Unions (40 05 23 43-0037)					
40 05 23 43-0055	EA 1/4", Type 304, Stainless Steel, Union.....	58.41		14.91	
	For Work In Restricted Working Space, Add	8.96			
40 05 23 43-0056	EA 3/8", Type 304, Stainless Steel, Union.....	74.68		16.57	
	For Work In Restricted Working Space, Add	9.92			
40 05 23 43-0057	EA 1/2", Type 304, Stainless Steel, Union.....	99.66		18.52	
	For Work In Restricted Working Space, Add	11.11			
40 05 23 43-0058	EA 5/8", Type 304, Stainless Steel, Union.....	120.96		21.02	
	For Work In Restricted Working Space, Add	12.63			
40 05 23 43-0059	EA 3/4", Type 304, Stainless Steel, Union.....	143.46		22.59	
	For Work In Restricted Working Space, Add	13.55			

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0060 EA 7/8", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	217.30 15.02	25.01
40 05 23 43-0061 EA 1", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	232.34 17.92	29.91
40 05 23 43-0062 Male Connectors (40 05 23 43-0037)		
40 05 23 43-0063 EA 1/4" x 1/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	29.72 5.97	10.00
40 05 23 43-0064 EA 3/8" x 3/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	36.61 6.54	10.93
40 05 23 43-0065 EA 1/2" x 1/2", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	46.87 7.41	12.32
40 05 23 43-0066 EA 5/8" x 5/8" Male Connection, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	52.78 8.29	13.80
40 05 23 43-0067 EA 3/4" x 3/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	63.19 8.96	14.91
40 05 23 43-0068 EA 7/8" x 7/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	93.17 9.92	16.57
40 05 23 43-0069 EA 1" x 1", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	98.39 11.82	19.72
40 05 23 43-0070 Type 304 Valves (40 05 23 43-0011)		
40 05 23 43-0071 Gate Valves (40 05 23 43-0070)		
40 05 23 43-0072 EA 1/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	161.58 8.09	14.91
40 05 23 43-0073 EA 3/8" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	271.11 8.51	17.50
40 05 23 43-0074 EA 1/2" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	282.14 11.82	19.72
40 05 23 43-0075 EA 3/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	312.85 13.55	22.59
40 05 23 43-0076 EA 1" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	288.42 17.92	29.91
40 05 23 43-0077 Globe Valves (40 05 23 43-0070)		
40 05 23 43-0078 EA 1/4" Globe Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	163.79 8.09	14.91
40 05 23 43-0079 EA 3/8" Globe Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	108.91 8.51	17.50
40 05 23 43-0080 EA 1/2" Globe Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	194.90 11.82	19.72
40 05 23 43-0081 EA 3/4" Globe Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	217.04 13.55	22.59
40 05 23 43-0082 EA 1" Globe Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	316.19 17.92	29.91
40 05 23 43-0083 Check Valves (40 05 23 43-0070)		
40 05 23 43-0084 EA 1/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	228.60 8.09	14.91
40 05 23 43-0085 EA 3/8" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	230.01 8.51	17.50
40 05 23 43-0086 EA 1/2" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	152.12 11.82	19.72
40 05 23 43-0087 EA 3/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	159.51 13.55	22.59
40 05 23 43-0088 EA 1" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	177.35 17.92	29.91
40 05 23 43-0089 Plug Valves (40 05 23 43-0070)		
40 05 23 43-0090 EA 1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	353.42 11.82	19.72
40 05 23 43-0091 EA 3/4" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	387.09 13.55	22.59
40 05 23 43-0092 EA 1" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	438.88 17.92	29.91
40 05 23 43-0093 EA 1-1/2" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	608.51 20.28	33.80
40 05 23 43-0094 EA 2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	792.71 27.78	46.30
40 05 23 43-0095 Type 316 Tubing (40 05 23 43-0011)		
40 05 23 43-0096 0.035" Wall (40 05 23 43-0095)		
40 05 23 43-0097 LF 1/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	6.67 1.49	2.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	8.61 1.79	2.96
40 05 23 43-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	9.61 2.09	3.52
40 05 23 43-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	15.77 2.39	3.98
40 05 23 43-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	17.88 2.69	4.45
40 05 23 43-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	22.51 2.99	5.00
40 05 23 43-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	23.84 3.58	6.02
40 05 23 43-0104 0.049" Wall (40 05 23 43-0095)		
40 05 23 43-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	11.30 1.79	2.96
40 05 23 43-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	12.58 2.09	3.52
40 05 23 43-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	14.79 2.39	3.98
40 05 23 43-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	19.23 2.99	5.00
40 05 23 43-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	22.27 3.58	6.02
40 05 23 43-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	28.24 4.18	6.94
40 05 23 43-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	29.05 4.75	7.87
40 05 23 43-0112 0.065" Wall (40 05 23 43-0095)		
40 05 23 43-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	13.21 2.09	3.52
40 05 23 43-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	14.75 2.39	3.98
40 05 23 43-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	18.50 2.99	5.00
40 05 23 43-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	22.06 3.58	6.02
40 05 23 43-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	26.67 4.18	6.94
40 05 23 43-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	29.44 4.75	7.87
40 05 23 43-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	34.21 5.34	8.89
40 05 23 43-0120 Type 316 Tube Fittings (40 05 23 43-0011)		
40 05 23 43-0121 90 Degree Elbows (40 05 23 43-0120)		
40 05 23 43-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	52.01 5.97	10.00
40 05 23 43-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	62.27 6.54	10.93
40 05 23 43-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	97.27 7.41	12.32
40 05 23 43-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	103.36 8.29	13.80
40 05 23 43-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	116.06 8.96	14.91
40 05 23 43-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	161.83 9.92	16.57
40 05 23 43-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	207.26 11.82	19.72
40 05 23 43-0129 Union Tees (40 05 23 43-0120)		
40 05 23 43-0130 EA 1/4" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	83.26 8.96	14.91
40 05 23 43-0131 EA 3/8" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	102.34 9.92	16.57
40 05 23 43-0132 EA 1/2" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	143.30 11.11	18.52
40 05 23 43-0133 EA 5/8" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	153.23 12.63	21.02
40 05 23 43-0134 EA 3/4" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	199.41 13.55	22.59
40 05 23 43-0135 EA 7/8" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	326.07 15.02	25.01
40 05 23 43-0136 EA 1" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	390.90 17.92	29.91

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 23 43-0137 Unions (40 05 23 43-0120)					
40 05 23 43-0138	EA 1/4" Union, Stainless Steel Type 316.....	54.99		14.91	
	For Work In Restricted Working Space, Add	8.96			
40 05 23 43-0139	EA 3/8" Union, Stainless Steel Type 316.....	69.71		16.57	
	For Work In Restricted Working Space, Add	9.92			
40 05 23 43-0140	EA 1/2" Union, Stainless Steel Type 316.....	92.17		18.52	
	For Work In Restricted Working Space, Add	11.11			
40 05 23 43-0141	EA 5/8" Union, Stainless Steel Type 316.....	111.53		21.02	
	For Work In Restricted Working Space, Add	12.63			
40 05 23 43-0142	EA 3/4" Union, Stainless Steel Type 316.....	131.71		22.59	
	For Work In Restricted Working Space, Add	13.55			
40 05 23 43-0143	EA 7/8" Union, Stainless Steel Type 316.....	197.31		25.01	
	For Work In Restricted Working Space, Add	15.02			
40 05 23 43-0144	EA 1" Union, Stainless Steel Type 316.....	211.71		29.91	
	For Work In Restricted Working Space, Add	17.92			
40 05 23 43-0145 Male Connectors (40 05 23 43-0120)					
40 05 23 43-0146	EA 1/4" x 1/4" Male Connector, Stainless Steel Type 316.....	36.66		10.00	
	For Work In Restricted Working Space, Add	5.97			
40 05 23 43-0147	EA 3/8" x 3/8" Male Connector, Stainless Steel Type 316.....	47.09		10.93	
	For Work In Restricted Working Space, Add	6.54			
40 05 23 43-0148	EA 1/2" x 1/2" Male Connector, Stainless Steel Type 316.....	62.55		12.32	
	For Work In Restricted Working Space, Add	7.41			
40 05 23 43-0149	EA 5/8" x 5/8" Male Connector, Stainless Steel Type 316.....	70.56		13.80	
	For Work In Restricted Working Space, Add	8.29			
40 05 23 43-0150	EA 3/4" x 3/4" Male Connector, Stainless Steel Type 316.....	86.75		14.91	
	For Work In Restricted Working Space, Add	8.96			
40 05 23 43-0151	EA 7/8" x 7/8" Male Connector, Stainless Steel Type 316.....	135.66		16.57	
	For Work In Restricted Working Space, Add	9.92			
40 05 23 43-0152	EA 1" x 1" Male Connector, Stainless Steel Type 316.....	140.08		19.72	
	For Work In Restricted Working Space, Add	11.82			
40 05 23 43-0153 Type 316 Valves (40 05 23 43-0011)					
40 05 23 43-0154 Gate Valves (40 05 23 43-0153)					
40 05 23 43-0155	EA 1/4" Gate Valve, Stainless Steel Type 316.....	205.04		14.91	
	For Work In Restricted Working Space, Add	8.09			
40 05 23 43-0156	EA 3/8" Gate Valve, Stainless Steel Type 316.....	349.48		17.50	
	For Work In Restricted Working Space, Add	8.51			
40 05 23 43-0157	EA 1/2" Gate Valve, Stainless Steel Type 316.....	360.51		19.72	
	For Work In Restricted Working Space, Add	11.82			
40 05 23 43-0158	EA 3/4" Gate Valve, Stainless Steel Type 316.....	399.28		22.59	
	For Work In Restricted Working Space, Add	13.55			
40 05 23 43-0159	EA 1" Gate Valve, Stainless Steel Type 316.....	362.25		29.91	
	For Work In Restricted Working Space, Add	17.92			
40 05 23 43-0160	EA 1-1/4" Gate Valve, Stainless Steel Type 316.....	496.82		31.02	
	For Work In Restricted Working Space, Add	18.61			
40 05 23 43-0161	EA 1-1/2" Gate Valve, Stainless Steel Type 316.....	796.86		33.80	
	For Work In Restricted Working Space, Add	20.28			
40 05 23 43-0162	EA 2" Gate Valve, Stainless Steel Type 316.....	948.28		46.30	
	For Work In Restricted Working Space, Add	27.78			
40 05 23 43-0163	EA 2-1/2" Gate Valve, Stainless Steel Type 316.....	1,414.63		148.25	
	For Work In Restricted Working Space, Add	88.92			
40 05 23 43-0164 Globe Valves (40 05 23 43-0153)					
40 05 23 43-0165	EA 1/4" Globe Valve, Stainless Steel Type 316.....	207.96		14.91	
	For Work In Restricted Working Space, Add	8.09			
40 05 23 43-0166	EA 3/8" Globe Valve, Stainless Steel Type 316.....	134.91		17.50	
	For Work In Restricted Working Space, Add	8.51			
40 05 23 43-0167	EA 1/2" Globe Valve, Stainless Steel Type 316.....	245.10		19.72	
	For Work In Restricted Working Space, Add	11.82			
40 05 23 43-0168	EA 3/4" Globe Valve, Stainless Steel Type 316.....	272.53		22.59	
	For Work In Restricted Working Space, Add	13.55			
40 05 23 43-0169	EA 1" Globe Valve, Stainless Steel Type 316.....	398.99		29.91	
	For Work In Restricted Working Space, Add	17.92			
40 05 23 43-0170	EA 1-1/4" Globe Valve, Stainless Steel Type 316.....	497.76		30.83	
	For Work In Restricted Working Space, Add	18.47			
40 05 23 43-0171	EA 1-1/2" Globe Valve, Stainless Steel Type 316.....	826.03		33.80	
	For Work In Restricted Working Space, Add	20.28			
40 05 23 43-0172	EA 2" Globe Valve, Stainless Steel Type 316.....	977.45		46.30	
	For Work In Restricted Working Space, Add	27.78			
40 05 23 43-0173	EA 2-1/2" Globe Valve, Stainless Steel Type 316.....	1,229.88		148.25	
	For Work In Restricted Working Space, Add	88.92			
40 05 23 43-0174 Check Valves (40 05 23 43-0153)					
40 05 23 43-0175	EA 1/4" Check Valve, Stainless Steel Type 316.....	293.70		14.91	
	For Work In Restricted Working Space, Add	8.09			
40 05 23 43-0176	EA 3/8" Check Valve, Stainless Steel Type 316.....	295.11		17.50	
	For Work In Restricted Working Space, Add	8.51			



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0177	EA	1/2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	188.51 11.82	19.72
40 05 23 43-0178	EA	3/4" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	196.43 13.55	22.59
40 05 23 43-0179	EA	1" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	215.32 17.92	29.91
40 05 23 43-0180	EA	1-1/4" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	297.16 18.61	31.02
40 05 23 43-0181	EA	1-1/2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	660.73 20.28	33.80
40 05 23 43-0182	EA	2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	802.43 27.78	46.30
40 05 23 43-0183	EA	2-1/2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,592.90 88.92	148.25
40 05 23 43-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined (40 05 23 43-0153)				
40 05 23 43-0185	EA	1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	315.84 11.82	19.72
40 05 23 43-0186	EA	3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	368.92 13.55	22.59
40 05 23 43-0187	EA	1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	470.59 17.92	29.91
40 05 23 43-0188	EA	1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	749.18 20.28	33.80
40 05 23 43-0189	EA	2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	1,046.83 27.78	46.30
40 05 23 43-0190 Diaphragm Valves, Teflon Lined (40 05 23 43-0153)				
40 05 23 43-0191	EA	1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	418.07 11.82	19.72
40 05 23 43-0192	EA	3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	480.63 13.55	22.59
40 05 23 43-0193	EA	1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	582.30 17.92	29.91
40 05 23 43-0194	EA	1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	906.32 20.28	33.80
40 05 23 43-0195	EA	2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	1,234.27 27.78	46.30
40 05 23 43-0196 Strainers (40 05 23 43-0153)				
40 05 23 43-0197	EA	1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	419.06 11.82	19.72
40 05 23 43-0198	EA	3/4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	501.46 13.61	22.68
40 05 23 43-0199	EA	1" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	656.14 18.06	30.10
40 05 23 43-0200	EA	1-1/4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	814.47 18.62	31.02
40 05 23 43-0201	EA	1-1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,022.07 20.28	33.80
40 05 23 43-0202	EA	2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,473.86 27.78	46.30
40 05 23 43-0203	EA	2-1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	2,025.40 36.95	61.58
40 05 23 43-0204	EA	3" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	2,949.67 55.56	92.60
40 05 23 43-0205	EA	4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	3,776.86 88.89	148.16
40 05 23 43-0206 Plug Valves (40 05 23 43-0153)				
40 05 23 43-0207	EA	1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	446.50 11.82	19.72
40 05 23 43-0208	EA	3/4" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	488.45 13.55	22.59
40 05 23 43-0209	EA	1" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	551.26 17.92	29.91
40 05 23 43-0210	EA	1-1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	768.85 20.28	33.80
40 05 23 43-0211	EA	2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,000.24 27.78	46.30
40 05 23 43-0212 Cut And Prepare Existing Pipe In-Place (40 05 23 43-0011)				
Note: For use when connecting pipe to an existing in-place system.				
40 05 23 43-0213	EA	Cut And Prepare 1/2" Stainless Steel Pipe	18.51	
40 05 23 43-0214	EA	Cut And Prepare 3/4" Stainless Steel Pipe	20.00	
40 05 23 43-0215	EA	Cut And Prepare 1" Stainless Steel Pipe	22.49	
40 05 23 43-0216	EA	Cut And Prepare 1-1/4" Stainless Steel Pipe	23.60	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0217 EA Cut And Prepare 1-1/2" Stainless Steel Pipe	24.99	
40 05 23 43-0218 EA Cut And Prepare 2" Stainless Steel Pipe	26.84	
40 05 23 43-0219 EA Cut And Prepare 2-1/2" Stainless Steel Pipe	28.70	
40 05 23 43-0220 EA Cut And Prepare 3" Stainless Steel Pipe	31.48	
40 05 23 43-0221 EA Cut And Prepare 4" Stainless Steel Pipe	34.25	
40 05 23 43-0222 EA Cut And Prepare 6" Stainless Steel Pipe	37.03	
40 05 23 43-0223 EA Cut And Prepare 8" Stainless Steel Pipe	39.81	
40 05 23 43-0224 EA Cut And Prepare 10" Stainless Steel Pipe	43.51	
40 05 23 43-0225 EA Cut And Prepare 12" Stainless Steel Pipe	47.21	
40 05 23 43-0226 EA Cut And Prepare 14" Stainless Steel Pipe	50.91	
40 05 23 43-0227 EA Cut And Prepare 16" Stainless Steel Pipe	54.61	
40 05 23 43-0228 EA Cut And Prepare 18" Stainless Steel Pipe	57.39	
40 05 23 43-0229 EA Cut And Prepare 20" Stainless Steel Pipe	60.17	
40 05 23 43-0230 EA Cut And Prepare 24" Stainless Steel Pipe	63.87	
40 05 23 43-0231 Stainless Steel Pipe And Fittings (40 05 23 43)		
40 05 23 43-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings		
(40 05 23 43-0231)		
40 05 23 43-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 43-0232)		
40 05 23 43-0234 LF 1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	13.61	3.98
For Work In Restricted Working Space, Add	2.39	
40 05 23 43-0235 LF 3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	16.75	5.00
For Work In Restricted Working Space, Add	2.99	
40 05 23 43-0236 LF 1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	20.58	6.02
For Work In Restricted Working Space, Add	3.58	
40 05 23 43-0237 LF 1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	24.72	6.94
For Work In Restricted Working Space, Add	4.18	
40 05 23 43-0238 LF 1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	28.60	7.87
For Work In Restricted Working Space, Add	4.75	
40 05 23 43-0239 LF 2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	36.51	10.00
For Work In Restricted Working Space, Add	5.97	
40 05 23 43-0240 LF 2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	49.37	11.85
For Work In Restricted Working Space, Add	7.12	
40 05 23 43-0241 LF 3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	62.07	14.91
For Work In Restricted Working Space, Add	8.96	
40 05 23 43-0242 LF 4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	83.98	19.72
For Work In Restricted Working Space, Add	11.82	
40 05 23 43-0243 150#, Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 43-0232)		
40 05 23 43-0244 EA 1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	31.53	14.91
For Work In Restricted Working Space, Add	8.96	
40 05 23 43-0245 EA 3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	41.79	19.72
For Work In Restricted Working Space, Add	11.82	
40 05 23 43-0246 EA 1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	53.51	25.01
For Work In Restricted Working Space, Add	15.02	
40 05 23 43-0247 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	74.51	34.26
For Work In Restricted Working Space, Add	20.58	
40 05 23 43-0248 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	88.40	40.28
For Work In Restricted Working Space, Add	24.16	
40 05 23 43-0249 EA 2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	107.47	48.71
For Work In Restricted Working Space, Add	29.24	
40 05 23 43-0250 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	177.10	77.13
For Work In Restricted Working Space, Add	46.30	
40 05 23 43-0251 EA 3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	228.15	99.54
For Work In Restricted Working Space, Add	59.74	
40 05 23 43-0252 EA 4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	303.54	123.43
For Work In Restricted Working Space, Add	74.08	
40 05 23 43-0253 150#, Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 43-0232)		
40 05 23 43-0254 EA 1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	31.92	14.91
For Work In Restricted Working Space, Add	8.96	
40 05 23 43-0255 EA 3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	42.41	19.72
For Work In Restricted Working Space, Add	11.82	
40 05 23 43-0256 EA 1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	53.71	25.01
For Work In Restricted Working Space, Add	15.02	
40 05 23 43-0257 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	74.43	34.26
For Work In Restricted Working Space, Add	20.58	
40 05 23 43-0258 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	87.48	40.28
For Work In Restricted Working Space, Add	24.16	
40 05 23 43-0259 EA 2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	107.26	48.71
For Work In Restricted Working Space, Add	29.24	
40 05 23 43-0260 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	181.25	77.13
For Work In Restricted Working Space, Add	46.30	
40 05 23 43-0261 EA 3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	236.24	99.54
For Work In Restricted Working Space, Add	59.74	
40 05 23 43-0262 EA 4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	312.97	123.43
For Work In Restricted Working Space, Add	74.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0263 150#, Type 304 Stainless Steel Threaded Tees (40 05 23 43-0232)		
40 05 23 43-0264 EA 1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	47.43	22.59
For Work In Restricted Working Space, Add	13.55	
40 05 23 43-0265 EA 3/4", 150#, Type 304 Stainless Steel Threaded Tee.....	63.32	29.91
For Work In Restricted Working Space, Add	17.92	
40 05 23 43-0266 EA 1", 150#, Type 304 Stainless Steel Threaded Tee.....	78.64	37.04
For Work In Restricted Working Space, Add	22.22	
40 05 23 43-0267 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Tee	111.96	51.48
For Work In Restricted Working Space, Add	30.87	
40 05 23 43-0268 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Tee	127.03	57.87
For Work In Restricted Working Space, Add	34.73	
40 05 23 43-0269 EA 2", 150#, Type 304 Stainless Steel Threaded Tee.....	168.82	77.13
For Work In Restricted Working Space, Add	46.30	
40 05 23 43-0270 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Tee	254.20	111.58
For Work In Restricted Working Space, Add	66.94	
40 05 23 43-0271 EA 3", 150#, Type 304 Stainless Steel Threaded Tee.....	343.48	149.37
For Work In Restricted Working Space, Add	89.61	
40 05 23 43-0272 EA 4", 150#, Type 304 Stainless Steel Threaded Tee.....	451.25	185.20
For Work In Restricted Working Space, Add	111.12	
40 05 23 43-0273 150#, Type 304 Stainless Steel Threaded Reducers (40 05 23 43-0232)		
40 05 23 43-0274 EA 3/4", 150#, Type 304 Stainless Steel Threaded Reducer	41.50	19.72
For Work In Restricted Working Space, Add	11.82	
40 05 23 43-0275 EA 1", 150#, Type 304 Stainless Steel Threaded Reducer	52.91	25.01
For Work In Restricted Working Space, Add	15.02	
40 05 23 43-0276 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer	72.77	34.26
For Work In Restricted Working Space, Add	20.58	
40 05 23 43-0277 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer	86.53	40.28
For Work In Restricted Working Space, Add	24.16	
40 05 23 43-0278 EA 2", 150#, Type 304 Stainless Steel Threaded Reducer	107.51	48.71
For Work In Restricted Working Space, Add	29.24	
40 05 23 43-0279 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer	175.88	77.13
For Work In Restricted Working Space, Add	46.30	
40 05 23 43-0280 EA 3", 150#, Type 304 Stainless Steel Threaded Reducer	229.82	99.54
For Work In Restricted Working Space, Add	59.74	
40 05 23 43-0281 EA 4", 150#, Type 304 Stainless Steel Threaded Reducer	297.75	123.43
For Work In Restricted Working Space, Add	74.08	
40 05 23 43-0282 150#, Type 304 Stainless Steel Threaded Caps (40 05 23 43-0232)		
40 05 23 43-0283 EA 1/2", 150#, Type 304 Stainless Steel Threaded Cap	16.04	7.50
For Work In Restricted Working Space, Add	4.48	
40 05 23 43-0284 EA 3/4", 150#, Type 304 Stainless Steel Threaded Cap	21.30	10.00
For Work In Restricted Working Space, Add	5.97	
40 05 23 43-0285 EA 1", 150#, Type 304 Stainless Steel Threaded Cap	26.77	12.32
For Work In Restricted Working Space, Add	7.41	
40 05 23 43-0286 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Cap	38.70	17.50
For Work In Restricted Working Space, Add	10.48	
40 05 23 43-0287 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Cap	44.35	19.72
For Work In Restricted Working Space, Add	11.82	
40 05 23 43-0288 EA 2", 150#, Type 304 Stainless Steel Threaded Cap	56.34	25.01
For Work In Restricted Working Space, Add	15.02	
40 05 23 43-0289 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Cap	85.43	37.04
For Work In Restricted Working Space, Add	22.22	
40 05 23 43-0290 EA 3", 150#, Type 304 Stainless Steel Threaded Cap	113.16	48.71
For Work In Restricted Working Space, Add	29.24	
40 05 23 43-0291 EA 4", 150#, Type 304 Stainless Steel Threaded Cap	150.02	61.77
For Work In Restricted Working Space, Add	37.04	
40 05 23 43-0292 150#, Type 304 Stainless Steel Threaded Unions (40 05 23 43-0232)		
40 05 23 43-0293 EA 1/2", 150#, Type 304 Stainless Steel Threaded Union	49.84	22.59
For Work In Restricted Working Space, Add	13.55	
40 05 23 43-0294 EA 3/4", 150#, Type 304 Stainless Steel Threaded Union	65.66	29.91
For Work In Restricted Working Space, Add	17.92	
40 05 23 43-0295 EA 1", 150#, Type 304 Stainless Steel Threaded Union	83.01	37.04
For Work In Restricted Working Space, Add	22.22	
40 05 23 43-0296 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Union	118.39	51.48
For Work In Restricted Working Space, Add	30.87	
40 05 23 43-0297 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Union	133.27	57.87
For Work In Restricted Working Space, Add	34.73	
40 05 23 43-0298 EA 2", 150#, Type 304 Stainless Steel Threaded Union	175.31	77.13
For Work In Restricted Working Space, Add	46.30	
40 05 23 43-0299 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Union	288.32	115.75
For Work In Restricted Working Space, Add	69.45	
40 05 23 43-0300 EA 3", 150#, Type 304 Stainless Steel Threaded Union	370.28	149.37
For Work In Restricted Working Space, Add	89.62	
40 05 23 43-0301 EA 4", 150#, Type 304 Stainless Steel Threaded Union	363.11	123.48
For Work In Restricted Working Space, Add	74.09	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0302 150#, Type 304 Stainless Steel Threaded Couplings (40 05 23 43-0232)				
40 05 23 43-0303	EA	1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	31.37	14.91
		<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0304	EA	3/4", 150#, Type 304 Stainless Steel Threaded Coupling.....	41.57	19.72
		<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0305	EA	1", 150#, Type 304 Stainless Steel Threaded Coupling.....	53.34	25.01
		<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0306	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling.....	73.82	34.26
		<i>For Work In Restricted Working Space, Add</i>	20.58	
40 05 23 43-0307	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	86.74	40.28
		<i>For Work In Restricted Working Space, Add</i>	24.16	
40 05 23 43-0308	EA	2", 150#, Type 304 Stainless Steel Threaded Coupling.....	106.23	48.71
		<i>For Work In Restricted Working Space, Add</i>	29.24	
40 05 23 43-0309	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	173.56	77.13
		<i>For Work In Restricted Working Space, Add</i>	46.30	
40 05 23 43-0310	EA	3", 150#, Type 304 Stainless Steel Threaded Coupling.....	224.00	99.54
		<i>For Work In Restricted Working Space, Add</i>	59.74	
40 05 23 43-0311	EA	4", 150#, Type 304 Stainless Steel Threaded Coupling.....	285.57	123.43
		<i>For Work In Restricted Working Space, Add</i>	74.08	
40 05 23 43-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings (40 05 23 43-0231)				
40 05 23 43-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 43-0312)				
40 05 23 43-0314	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	16.60	3.98
		<i>For Work In Restricted Working Space, Add</i>	2.39	
40 05 23 43-0315	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	19.70	5.00
		<i>For Work In Restricted Working Space, Add</i>	2.99	
40 05 23 43-0316	LF	1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	24.82	6.02
		<i>For Work In Restricted Working Space, Add</i>	3.58	
40 05 23 43-0317	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	30.27	6.94
		<i>For Work In Restricted Working Space, Add</i>	4.18	
40 05 23 43-0318	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	35.16	7.87
		<i>For Work In Restricted Working Space, Add</i>	4.75	
40 05 23 43-0319	LF	2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	45.31	10.00
		<i>For Work In Restricted Working Space, Add</i>	5.97	
40 05 23 43-0320	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	61.66	11.85
		<i>For Work In Restricted Working Space, Add</i>	7.12	
40 05 23 43-0321	LF	3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	80.39	14.91
		<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0322	LF	4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	107.83	19.72
		<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0323 150#, Type 316 Stainless Steel Threaded 90 Degree Elbows (40 05 23 43-0312)				
40 05 23 43-0324	EA	1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	32.03	14.91
		<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0325	EA	3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	42.53	19.72
		<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0326	EA	1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	53.97	25.01
		<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0327	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	75.33	34.26
		<i>For Work In Restricted Working Space, Add</i>	20.58	
40 05 23 43-0328	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	89.50	40.28
		<i>For Work In Restricted Working Space, Add</i>	24.16	
40 05 23 43-0329	EA	2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	108.82	48.71
		<i>For Work In Restricted Working Space, Add</i>	29.24	
40 05 23 43-0330	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	179.27	77.13
		<i>For Work In Restricted Working Space, Add</i>	46.30	
40 05 23 43-0331	EA	3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	233.45	99.54
		<i>For Work In Restricted Working Space, Add</i>	59.74	
40 05 23 43-0332	EA	4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	309.98	123.43
		<i>For Work In Restricted Working Space, Add</i>	74.08	
40 05 23 43-0333 150#, Type 316 Stainless Steel Threaded 45 Degree Elbows (40 05 23 43-0312)				
40 05 23 43-0334	EA	1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	32.44	14.91
		<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0335	EA	3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	42.79	19.72
		<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0336	EA	1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	54.27	25.01
		<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0337	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	75.24	34.26
		<i>For Work In Restricted Working Space, Add</i>	20.58	
40 05 23 43-0338	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	88.43	40.28
		<i>For Work In Restricted Working Space, Add</i>	24.16	
40 05 23 43-0339	EA	2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	108.53	48.71
		<i>For Work In Restricted Working Space, Add</i>	29.24	
40 05 23 43-0340	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	183.29	77.13
		<i>For Work In Restricted Working Space, Add</i>	46.30	
40 05 23 43-0341	EA	3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	240.93	99.54
		<i>For Work In Restricted Working Space, Add</i>	59.74	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0342	EA	4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	325.62 74.08	123.43
40 05 23 43-0343		150#, Type 316 Stainless Steel Threaded Tees (40 05 23 43-0312)		
40 05 23 43-0344	EA	1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	47.96 13.55	22.59
40 05 23 43-0345	EA	3/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	63.87 17.92	29.91
40 05 23 43-0346	EA	1", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	79.25 22.22	37.04
40 05 23 43-0347	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	113.20 30.87	51.48
40 05 23 43-0348	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	128.26 34.73	57.87
40 05 23 43-0349	EA	2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	170.43 46.30	77.13
40 05 23 43-0350	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	260.77 66.94	111.58
40 05 23 43-0351	EA	3", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	352.44 89.61	149.37
40 05 23 43-0352	EA	4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	457.94 111.12	185.20
40 05 23 43-0353		150#, Type 316 Stainless Steel Threaded Reducers (40 05 23 43-0312)		
40 05 23 43-0354	EA	3/4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	41.96 11.82	19.72
40 05 23 43-0355	EA	1", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	54.26 15.02	25.01
40 05 23 43-0356	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	73.03 20.58	34.26
40 05 23 43-0357	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	87.87 24.16	40.28
40 05 23 43-0358	EA	2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	109.85 29.24	48.71
40 05 23 43-0359	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	181.19 46.30	77.13
40 05 23 43-0360	EA	3", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	235.69 59.74	99.54
40 05 23 43-0361	EA	4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	307.53 74.08	123.43
40 05 23 43-0362		150#, Type 316 Stainless Steel Threaded Caps (40 05 23 43-0312)		
40 05 23 43-0363	EA	1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	16.34 4.48	7.50
40 05 23 43-0364	EA	3/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	21.52 5.97	10.00
40 05 23 43-0365	EA	1", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	27.16 7.41	12.32
40 05 23 43-0366	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	39.80 10.48	17.50
40 05 23 43-0367	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	45.65 11.82	19.72
40 05 23 43-0368	EA	2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	58.04 15.02	25.01
40 05 23 43-0369	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	88.24 22.22	37.04
40 05 23 43-0370	EA	3", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	116.01 29.24	48.71
40 05 23 43-0371	EA	4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	155.67 37.04	61.77
40 05 23 43-0372		150#, Type 316 Stainless Steel Threaded Unions (40 05 23 43-0312)		
40 05 23 43-0373	EA	1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	50.48 13.55	22.59
40 05 23 43-0374	EA	3/4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	68.08 17.92	29.91
40 05 23 43-0375	EA	1", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	84.24 22.22	37.04
40 05 23 43-0376	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	120.47 30.87	51.48
40 05 23 43-0377	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	135.70 34.73	57.87
40 05 23 43-0378	EA	2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	178.13 46.30	77.13
40 05 23 43-0379	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	292.64 69.45	115.75
40 05 23 43-0380	EA	3", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	383.73 89.62	149.37

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0381 EA 4", 150#, Type 316 Stainless Steel Threaded Union For Work In Restricted Working Space, Add	391.79 74.09	123.48
40 05 23 43-0382 150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 43-0312)		
40 05 23 43-0383 EA 1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... For Work In Restricted Working Space, Add	32.39 8.96	14.91
40 05 23 43-0384 EA 3/4", 150#, Type 316 Stainless Steel Threaded Coupling..... For Work In Restricted Working Space, Add	42.04 11.82	19.72
40 05 23 43-0385 EA 1", 150#, Type 316 Stainless Steel Threaded Coupling..... For Work In Restricted Working Space, Add	53.79 15.02	25.01
40 05 23 43-0386 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling..... For Work In Restricted Working Space, Add	74.54 20.58	34.26
40 05 23 43-0387 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... For Work In Restricted Working Space, Add	87.59 24.16	40.28
40 05 23 43-0388 EA 2", 150#, Type 316 Stainless Steel Threaded Coupling..... For Work In Restricted Working Space, Add	107.42 29.24	48.71
40 05 23 43-0389 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... For Work In Restricted Working Space, Add	177.70 46.30	77.13
40 05 23 43-0390 EA 3", 150#, Type 316 Stainless Steel Threaded Coupling..... For Work In Restricted Working Space, Add	229.33 59.74	99.54
40 05 23 43-0391 EA 4", 150#, Type 316 Stainless Steel Threaded Coupling..... For Work In Restricted Working Space, Add	293.56 74.08	123.43
40 05 23 43-0392 Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 43-0231)		
40 05 23 43-0393 Type 304, Schedule 10 Stainless Steel Pipe (40 05 23 43-0392)		
40 05 23 43-0394 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... For Work In Restricted Working Space, Add	15.08 2.33	3.88
40 05 23 43-0395 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... For Work In Restricted Working Space, Add	17.96 2.85	4.75
40 05 23 43-0396 LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	23.74 3.34	5.60
40 05 23 43-0397 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	29.02 4.18	6.99
40 05 23 43-0398 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	32.28 4.70	7.84
40 05 23 43-0399 LF 2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	39.93 5.83	9.75
40 05 23 43-0400 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	47.69 6.66	11.12
40 05 23 43-0401 LF 3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	56.24 7.50	12.51
40 05 23 43-0402 LF 4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	70.57 8.87	14.83
40 05 23 43-0403 LF 6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	102.83 11.66	19.49
40 05 23 43-0404 LF 8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	170.44 21.74	33.84
40 05 23 43-0405 LF 10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	217.68 23.91	37.20
40 05 23 43-0406 LF 12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	260.53 26.57	41.36
40 05 23 43-0407 LF 14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	320.50 29.89	46.49
40 05 23 43-0408 LF 16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	352.91 34.16	53.14
40 05 23 43-0409 LF 18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	395.41 39.86	61.99
40 05 23 43-0410 LF 20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	548.95 47.83	74.39
40 05 23 43-0411 LF 24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	715.90 59.78	93.00
40 05 23 43-0412 Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow (40 05 23 43-0392)		
40 05 23 43-0413 EA 1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	101.30 29.49	44.24
40 05 23 43-0414 EA 3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	107.35 31.31	46.96
40 05 23 43-0415 EA 1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	118.22 34.41	51.61
40 05 23 43-0416 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	128.97 37.50	56.25
40 05 23 43-0417 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	142.44 41.41	62.12
40 05 23 43-0418 EA 2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	159.04 46.07	69.11
40 05 23 43-0419 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	205.88 58.97	88.44
40 05 23 43-0420 EA 3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	241.45 69.11	103.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0421 EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	293.86 82.72	124.08
40 05 23 43-0422 EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	393.02 103.33	155.00
40 05 23 43-0423 EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	658.49 170.81	256.21
40 05 23 43-0424 EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	950.35 227.74	341.61
40 05 23 43-0425 EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	1,433.31 341.61	512.41
40 05 23 43-0426 EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	1,690.09 398.54	597.81
40 05 23 43-0427 EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	1,973.31 454.61	681.92
40 05 23 43-0428 EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	2,489.40 569.35	854.03
40 05 23 43-0429 EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	3,473.58 797.09	1,195.64
40 05 23 43-0430 EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	4,981.60 1,138.70	1,708.05
40 05 23 43-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 43-0392)		
40 05 23 43-0432 EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	102.18 29.49	44.24
40 05 23 43-0433 EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	108.23 31.31	46.96
40 05 23 43-0434 EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	119.28 34.41	51.61
40 05 23 43-0435 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	130.38 37.50	56.25
40 05 23 43-0436 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	142.62 41.41	62.12
40 05 23 43-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	159.04 46.07	69.11
40 05 23 43-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	205.00 58.97	88.44
40 05 23 43-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	239.86 69.11	103.66
40 05 23 43-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	290.87 82.72	124.08
40 05 23 43-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	377.35 103.33	155.00
40 05 23 43-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	628.28 170.81	256.21
40 05 23 43-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	896.56 227.74	341.61
40 05 23 43-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,348.15 341.61	512.41
40 05 23 43-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,585.56 398.54	597.81
40 05 23 43-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,844.31 454.61	681.92
40 05 23 43-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,319.99 569.35	854.03
40 05 23 43-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	3,244.98 797.09	1,195.64
40 05 23 43-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	4,657.32 1,138.70	1,708.05
40 05 23 43-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee (40 05 23 43-0392)		
40 05 23 43-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	134.64 37.49	56.23
40 05 23 43-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	163.09 46.02	69.04
40 05 23 43-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	182.04 51.71	77.56
40 05 23 43-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	207.30 58.97	88.44
40 05 23 43-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	220.66 63.29	94.94
40 05 23 43-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	240.50 69.04	103.55
40 05 23 43-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	305.03 82.72	124.08
40 05 23 43-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	364.55 103.66	155.49
40 05 23 43-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	416.32 116.34	174.51
40 05 23 43-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	592.94 155.12	232.68

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	938.00 227.74	341.61
40 05 23 43-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,433.31 341.61	512.41
40 05 23 43-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,832.61 427.01	640.51
40 05 23 43-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,244.09 513.15	769.73
40 05 23 43-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,722.06 625.98	938.98
40 05 23 43-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,464.19 797.09	1,195.64
40 05 23 43-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,618.08 1,048.80	1,573.20
40 05 23 43-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,941.72 1,594.18	2,391.26
40 05 23 43-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 43-0392)		
40 05 23 43-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	121.66 31.32	46.98
40 05 23 43-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	145.18 38.38	57.57
40 05 23 43-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	175.24 43.13	64.69
40 05 23 43-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	185.52 49.16	73.74
40 05 23 43-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	195.63 52.83	79.23
40 05 23 43-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	244.88 57.57	86.36
40 05 23 43-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	289.51 69.01	103.51
40 05 23 43-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	357.89 86.25	129.38
40 05 23 43-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	458.38 98.55	147.82
40 05 23 43-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	818.11 142.34	213.50
40 05 23 43-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,310.64 189.79	284.68
40 05 23 43-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,884.12 284.68	427.01
40 05 23 43-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,283.06 342.00	513.00
40 05 23 43-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,822.13 417.18	625.77
40 05 23 43-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,638.11 531.39	797.09
40 05 23 43-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,126.25 699.20	1,048.80
40 05 23 43-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	7,991.94 1,061.84	1,592.76
40 05 23 43-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 43-0392)		
40 05 23 43-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	100.92 28.48	42.72
40 05 23 43-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	110.85 31.04	46.55
40 05 23 43-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	122.89 34.41	51.61
40 05 23 43-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	131.51 37.50	56.25
40 05 23 43-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	143.85 41.41	62.12
40 05 23 43-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	189.75 51.75	77.62
40 05 23 43-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	214.86 58.91	88.37
40 05 23 43-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	251.27 69.04	103.55
40 05 23 43-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	323.23 87.89	131.83
40 05 23 43-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	504.10 136.64	204.96
40 05 23 43-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	638.73 170.81	256.21
40 05 23 43-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	857.40 227.74	341.61
40 05 23 43-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,200.75 298.91	448.36
40 05 23 43-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,396.64 340.64	510.96



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0502	EA	18"	Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,725.79 427.01	640.51
40 05 23 43-0503	EA	20"	Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,397.43 569.35	854.03
40 05 23 43-0504	EA	24"	Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,484.75 854.03	1,281.04
40 05 23 43-0505	EA	3/4"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	117.47 28.48	42.72
40 05 23 43-0506	EA	1"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	123.00 31.04	46.55
40 05 23 43-0507	EA	1-1/4"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	131.21 34.41	51.61
40 05 23 43-0508	EA	1-1/2"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	146.65 37.50	56.25
40 05 23 43-0509	EA	2"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	154.76 41.41	62.12
40 05 23 43-0510	EA	2-1/2"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	201.72 51.75	77.62
40 05 23 43-0511	EA	3"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	226.65 58.91	88.37
40 05 23 43-0512	EA	4"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	260.39 69.04	103.55
40 05 23 43-0513	EA	6"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	356.14 87.89	131.83
40 05 23 43-0514	EA	8"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	574.65 136.64	204.96
40 05 23 43-0515	EA	10"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	776.35 170.81	256.21
40 05 23 43-0516	EA	12"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	984.56 227.74	341.61
40 05 23 43-0517	EA	14"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,494.10 298.91	448.36
40 05 23 43-0518	EA	16"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,732.77 340.64	510.96
40 05 23 43-0519	EA	18"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,136.02 427.01	640.51
40 05 23 43-0520	EA	20"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,054.81 569.35	854.03
40 05 23 43-0521	EA	24"	Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,355.98 854.03	1,281.04
40 05 23 43-0522	Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 43-0392)				
40 05 23 43-0523	EA	1/2"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	54.62 14.75	22.13
40 05 23 43-0524	EA	3/4"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	59.57 15.65	23.48
40 05 23 43-0525	EA	1"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	65.44 17.20	25.80
40 05 23 43-0526	EA	1-1/4"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	71.92 18.75	28.13
40 05 23 43-0527	EA	1-1/2"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	77.65 20.71	31.06
40 05 23 43-0528	EA	2"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	84.36 23.04	34.55
40 05 23 43-0529	EA	2-1/2"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	109.19 29.48	44.23
40 05 23 43-0530	EA	3"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	124.51 34.55	51.83
40 05 23 43-0531	EA	4"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	149.84 41.36	62.04
40 05 23 43-0532	EA	6"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	192.04 51.75	77.62
40 05 23 43-0533	EA	8"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	319.85 85.40	128.10
40 05 23 43-0534	EA	10"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	426.03 113.87	170.80
40 05 23 43-0535	EA	12"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	629.89 170.81	256.21
40 05 23 43-0536	EA	14"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	738.44 199.27	298.91
40 05 23 43-0537	EA	16"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	853.39 227.31	340.96
40 05 23 43-0538	EA	18"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,076.04 284.68	427.01
40 05 23 43-0539	EA	20"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,490.11 398.54	597.81
40 05 23 43-0540	EA	24"	Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,182.63 569.35	854.02
40 05 23 43-0541	Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 43-0231)				
40 05 23 43-0542	Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 43-0541)				

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	16.88 2.33	3.88
40 05 23 43-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	20.51 2.85	4.75
40 05 23 43-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	25.12 3.34	5.60
40 05 23 43-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	31.42 4.18	6.90
40 05 23 43-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	36.18 4.70	7.76
40 05 23 43-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	46.35 5.83	9.92
40 05 23 43-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	57.49 6.66	11.22
40 05 23 43-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	56.07 7.50	12.51
40 05 23 43-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	92.41 8.87	14.66
40 05 23 43-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	143.82 11.66	19.41
40 05 23 43-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	252.42 21.74	33.65
40 05 23 43-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	319.65 23.91	37.20
40 05 23 43-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	398.50 26.57	41.18
40 05 23 43-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 43-0541)		
40 05 23 43-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	102.01 29.49	44.24
40 05 23 43-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	108.06 31.31	46.96
40 05 23 43-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	118.75 34.41	51.61
40 05 23 43-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	129.35 37.50	56.25
40 05 23 43-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	142.79 41.41	62.12
40 05 23 43-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	160.27 46.07	69.11
40 05 23 43-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	210.45 58.97	88.44
40 05 23 43-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	248.14 69.11	103.66
40 05 23 43-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	305.12 82.72	124.08
40 05 23 43-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	465.00 103.33	155.00
40 05 23 43-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	756.58 170.81	256.21
40 05 23 43-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,149.37 227.74	341.61
40 05 23 43-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,691.44 341.61	512.41
40 05 23 43-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,003.23 398.54	597.81
40 05 23 43-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,375.59 454.61	681.92
40 05 23 43-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,048.35 569.35	854.03
40 05 23 43-0573 EA 20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,163.48 797.09	1,195.64
40 05 23 43-0574 EA 24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,965.86 1,138.70	1,708.05
40 05 23 43-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 43-0541)		
40 05 23 43-0576 EA 1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	103.24 29.49	44.24
40 05 23 43-0577 EA 3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	109.29 31.31	46.96
40 05 23 43-0578 EA 1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	119.63 34.41	51.61
40 05 23 43-0579 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	130.25 37.50	56.25
40 05 23 43-0580 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	143.67 41.41	62.12
40 05 23 43-0581 EA 2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	160.46 46.07	69.11
40 05 23 43-0582 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	210.45 58.97	88.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0583 EA 3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	243.21 69.11	103.66
40 05 23 43-0584 EA 4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	307.76 82.72	124.08
40 05 23 43-0585 EA 6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	404.98 103.33	155.00
40 05 23 43-0586 EA 8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	693.66 170.81	256.21
40 05 23 43-0587 EA 10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	992.18 227.74	341.61
40 05 23 43-0588 EA 12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,459.55 341.61	512.41
40 05 23 43-0589 EA 14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,664.12 398.54	597.81
40 05 23 43-0590 EA 16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,971.84 454.61	681.92
40 05 23 43-0591 EA 18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,485.07 569.35	854.03
40 05 23 43-0592 EA 20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	3,403.42 797.09	1,195.64
40 05 23 43-0593 EA 24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	4,926.33 1,138.70	1,708.05
40 05 23 43-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 43-0541)		
40 05 23 43-0595 EA 1/2", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	135.34 37.49	56.23
40 05 23 43-0596 EA 3/4", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	163.79 46.02	69.04
40 05 23 43-0597 EA 1", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	182.74 51.71	77.56
40 05 23 43-0598 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	209.09 58.97	88.44
40 05 23 43-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	221.36 63.29	94.94
40 05 23 43-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	241.38 69.04	103.55
40 05 23 43-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	307.41 82.72	124.08
40 05 23 43-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	368.24 103.66	155.49
40 05 23 43-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	420.37 116.34	174.51
40 05 23 43-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	620.92 155.12	232.68
40 05 23 43-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	1,021.06 227.74	341.61
40 05 23 43-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	1,688.22 341.61	512.41
40 05 23 43-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	2,101.39 427.01	640.51
40 05 23 43-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	2,785.68 513.15	769.73
40 05 23 43-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	3,512.75 625.98	938.98
40 05 23 43-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	4,537.74 797.09	1,195.64
40 05 23 43-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	5,877.34 1,048.80	1,573.20
40 05 23 43-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	8,986.91 1,594.18	2,391.26
40 05 23 43-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 43-0541)		
40 05 23 43-0614 EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	123.95 31.32	46.98
40 05 23 43-0615 EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	147.47 38.38	57.57
40 05 23 43-0616 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	186.25 43.13	64.69
40 05 23 43-0617 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	188.86 49.16	73.74
40 05 23 43-0618 EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	195.63 52.83	79.23
40 05 23 43-0619 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	233.63 57.57	86.36
40 05 23 43-0620 EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	264.69 69.01	103.51
40 05 23 43-0621 EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	344.87 86.25	129.38
40 05 23 43-0622 EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	460.49 98.55	147.82
40 05 23 43-0623 EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	743.41 142.34	213.50

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0624	EA	10", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,334.01 189.79	284.68
40 05 23 43-0625	EA	12", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,930.88 284.68	427.01
40 05 23 43-0626	EA	14", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,217.45 342.00	513.00
40 05 23 43-0627	EA	16", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,739.96 417.18	625.77
40 05 23 43-0628	EA	18", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,530.96 531.39	797.09
40 05 23 43-0629	EA	20", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,965.78 699.20	1,048.80
40 05 23 43-0630	EA	24", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	7,736.38 1,061.84	1,592.76
40 05 23 43-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 43-0541)				
40 05 23 43-0632	EA	3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	102.68 28.48	42.72
40 05 23 43-0633	EA	1", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	112.61 31.04	46.55
40 05 23 43-0634	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	123.02 34.41	51.61
40 05 23 43-0635	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	133.27 37.50	56.25
40 05 23 43-0636	EA	2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	144.90 41.41	62.12
40 05 23 43-0637	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	189.75 51.75	77.62
40 05 23 43-0638	EA	3", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	208.52 58.91	88.37
40 05 23 43-0639	EA	4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	242.26 69.04	103.55
40 05 23 43-0640	EA	6", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	324.64 87.89	131.83
40 05 23 43-0641	EA	8", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	533.99 136.64	204.96
40 05 23 43-0642	EA	10", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	690.05 170.81	256.21
40 05 23 43-0643	EA	12", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	903.21 227.74	341.61
40 05 23 43-0644	EA	14", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,303.55 298.91	448.36
40 05 23 43-0645	EA	16", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,525.87 340.64	510.96
40 05 23 43-0646	EA	18", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,987.48 427.01	640.51
40 05 23 43-0647	EA	20", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,706.11 569.35	854.03
40 05 23 43-0648	EA	24", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,804.42 854.03	1,281.04
40 05 23 43-0649	EA	3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	118.18 28.48	42.72
40 05 23 43-0650	EA	1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	126.69 31.04	46.55
40 05 23 43-0651	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	143.88 34.41	51.61
40 05 23 43-0652	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	153.16 37.50	56.25
40 05 23 43-0653	EA	2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	164.79 41.41	62.12
40 05 23 43-0654	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	201.72 51.75	77.62
40 05 23 43-0655	EA	3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	248.48 58.91	88.37
40 05 23 43-0656	EA	4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	275.18 69.04	103.55
40 05 23 43-0657	EA	6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	370.75 87.89	131.83
40 05 23 43-0658	EA	8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	576.18 136.64	204.96
40 05 23 43-0659	EA	10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	775.02 170.81	256.21
40 05 23 43-0660	EA	12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,053.75 227.74	341.61
40 05 23 43-0661	EA	14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,672.55 298.91	448.36
40 05 23 43-0662	EA	16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,898.29 340.64	510.96
40 05 23 43-0663	EA	18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,469.28 427.01	640.51
40 05 23 43-0664	EA	20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,219.28 569.35	854.03



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0665	EA	24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer For Work In Restricted Working Space, Add	5,084.97 854.03	1,281.04
40 05 23 43-0666		Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 43-0541)		
40 05 23 43-0667	EA	1/2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	55.14 14.75	22.13
40 05 23 43-0668	EA	3/4", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	59.04 15.65	23.48
40 05 23 43-0669	EA	1", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	65.96 17.20	25.80
40 05 23 43-0670	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	74.28 18.75	28.13
40 05 23 43-0671	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	79.94 20.71	31.06
40 05 23 43-0672	EA	2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	84.18 23.04	34.55
40 05 23 43-0673	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	108.01 29.48	44.23
40 05 23 43-0674	EA	3", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	125.21 34.55	51.83
40 05 23 43-0675	EA	4", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	151.95 41.36	62.04
40 05 23 43-0676	EA	6", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	205.06 51.75	77.62
40 05 23 43-0677	EA	8", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	340.76 85.40	128.10
40 05 23 43-0678	EA	10", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	455.60 113.87	170.80
40 05 23 43-0679	EA	12", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	686.25 170.81	256.21
40 05 23 43-0680	EA	14", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	790.06 199.27	298.91
40 05 23 43-0681	EA	16", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	924.40 227.31	340.96
40 05 23 43-0682	EA	18", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,160.20 284.68	427.01
40 05 23 43-0683	EA	20", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,602.34 398.54	597.81
40 05 23 43-0684	EA	24", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	2,370.28 569.35	854.02
40 05 23 43-0685		Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 43-0231)		
40 05 23 43-0686		Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 43-0685)		
40 05 23 43-0687	LF	1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	17.37 2.33	3.88
40 05 23 43-0688	LF	3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	20.61 2.85	4.75
40 05 23 43-0689	LF	1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	27.68 3.34	5.60
40 05 23 43-0690	LF	1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	33.73 4.18	6.99
40 05 23 43-0691	LF	1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	37.46 4.70	7.84
40 05 23 43-0692	LF	2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	46.33 5.83	9.75
40 05 23 43-0693	LF	2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	55.66 6.66	11.12
40 05 23 43-0694	LF	3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	66.00 7.50	12.51
40 05 23 43-0695	LF	4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	83.37 8.87	14.83
40 05 23 43-0696	LF	6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	122.82 11.66	19.49
40 05 23 43-0697	LF	8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	201.03 21.74	33.84
40 05 23 43-0698	LF	10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	260.76 23.91	37.20
40 05 23 43-0699	LF	12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	314.23 26.57	41.36
40 05 23 43-0700	LF	14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	389.48 29.89	46.49
40 05 23 43-0701	LF	16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	427.56 34.16	53.14
40 05 23 43-0702	LF	18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	477.41 39.86	61.99
40 05 23 43-0703	LF	20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	670.60 47.83	74.39
40 05 23 43-0704	LF	24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	877.23 59.78	93.00

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 43-0685)				
40 05 23 43-0706	EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	102.18	44.24	
	For Work In Restricted Working Space, Add	29.49		
40 05 23 43-0707	EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	108.23	46.96	
	For Work In Restricted Working Space, Add	31.31		
40 05 23 43-0708	EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	119.28	51.61	
	For Work In Restricted Working Space, Add	34.41		
40 05 23 43-0709	EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	130.50	56.25	
	For Work In Restricted Working Space, Add	37.50		
40 05 23 43-0710	EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	143.50	62.12	
	For Work In Restricted Working Space, Add	41.41		
40 05 23 43-0711	EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	160.27	69.11	
	For Work In Restricted Working Space, Add	46.07		
40 05 23 43-0712	EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	208.17	88.44	
	For Work In Restricted Working Space, Add	58.97		
40 05 23 43-0713	EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	244.79	103.66	
	For Work In Restricted Working Space, Add	69.11		
40 05 23 43-0714	EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	298.96	124.08	
	For Work In Restricted Working Space, Add	82.72		
40 05 23 43-0715	EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	406.39	155.00	
	For Work In Restricted Working Space, Add	103.33		
40 05 23 43-0716	EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	683.40	256.21	
	For Work In Restricted Working Space, Add	170.81		
40 05 23 43-0717	EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	1,007.94	341.61	
	For Work In Restricted Working Space, Add	227.74		
40 05 23 43-0718	EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	1,511.82	512.41	
	For Work In Restricted Working Space, Add	341.61		
40 05 23 43-0719	EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	1,763.97	597.81	
	For Work In Restricted Working Space, Add	398.54		
40 05 23 43-0720	EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	2,090.16	681.92	
	For Work In Restricted Working Space, Add	454.61		
40 05 23 43-0721	EA 18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	2,629.52	854.03	
	For Work In Restricted Working Space, Add	569.35		
40 05 23 43-0722	EA 20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	3,673.74	1,195.64	
	For Work In Restricted Working Space, Add	797.09		
40 05 23 43-0723	EA 24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	5,279.02	1,708.05	
	For Work In Restricted Working Space, Add	1,138.70		
40 05 23 43-0724 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 43-0685)				
40 05 23 43-0725	EA 1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	103.24	44.24	
	For Work In Restricted Working Space, Add	29.49		
40 05 23 43-0726	EA 3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	109.29	46.96	
	For Work In Restricted Working Space, Add	31.31		
40 05 23 43-0727	EA 1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	120.33	51.61	
	For Work In Restricted Working Space, Add	34.41		
40 05 23 43-0728	EA 1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	131.91	56.25	
	For Work In Restricted Working Space, Add	37.50		
40 05 23 43-0729	EA 1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	143.50	62.12	
	For Work In Restricted Working Space, Add	41.41		
40 05 23 43-0730	EA 2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	160.27	69.11	
	For Work In Restricted Working Space, Add	46.07		
40 05 23 43-0731	EA 2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	207.11	88.44	
	For Work In Restricted Working Space, Add	58.97		
40 05 23 43-0732	EA 3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	243.21	103.66	
	For Work In Restricted Working Space, Add	69.11		
40 05 23 43-0733	EA 4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	295.27	124.08	
	For Work In Restricted Working Space, Add	82.72		
40 05 23 43-0734	EA 6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	384.57	155.00	
	For Work In Restricted Working Space, Add	103.33		
40 05 23 43-0735	EA 8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	644.24	256.21	
	For Work In Restricted Working Space, Add	170.81		
40 05 23 43-0736	EA 10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	992.18	341.61	
	For Work In Restricted Working Space, Add	227.74		
40 05 23 43-0737	EA 12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	1,459.55	512.41	
	For Work In Restricted Working Space, Add	341.61		
40 05 23 43-0738	EA 14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	1,714.98	597.81	
	For Work In Restricted Working Space, Add	398.54		
40 05 23 43-0739	EA 16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	2,000.36	681.92	
	For Work In Restricted Working Space, Add	454.61		
40 05 23 43-0740	EA 18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	2,523.76	854.03	
	For Work In Restricted Working Space, Add	569.35		
40 05 23 43-0741	EA 20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	3,578.72	1,195.64	
	For Work In Restricted Working Space, Add	797.09		
40 05 23 43-0742	EA 24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	5,152.46	1,708.05	
	For Work In Restricted Working Space, Add	1,138.70		
40 05 23 43-0743 Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 43-0685)				
40 05 23 43-0744	EA 1/2", Type 316, Schedule 10 Stainless Steel Tee	136.93	56.23	
	For Work In Restricted Working Space, Add	37.49		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0745	EA	3/4"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	165.38 46.02	69.04
40 05 23 43-0746	EA	1"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	184.33 51.71	77.56
40 05 23 43-0747	EA	1-1/4"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	211.53 58.97	88.44
40 05 23 43-0748	EA	1-1/2"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	224.00 63.29	94.94
40 05 23 43-0749	EA	2"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	243.50 69.04	103.55
40 05 23 43-0750	EA	2-1/2"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	295.44 82.72	124.08
40 05 23 43-0751	EA	3"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	370.36 103.66	155.49
40 05 23 43-0752	EA	4"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	424.24 116.34	174.51
40 05 23 43-0753	EA	6"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	615.64 155.12	232.68
40 05 23 43-0754	EA	8"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	997.68 227.74	341.61
40 05 23 43-0755	EA	10"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,547.93 341.61	512.41
40 05 23 43-0756	EA	12"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,984.48 427.01	640.51
40 05 23 43-0757	EA	14"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,525.69 513.15	769.73
40 05 23 43-0758	EA	16"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,994.77 625.98	938.98
40 05 23 43-0759	EA	18"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,807.31 797.09	1,195.64
40 05 23 43-0760	EA	20"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,118.45 1,048.80	1,573.20
40 05 23 43-0761	EA	24"	Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,380.57 1,594.18	2,391.26
40 05 23 43-0762	Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 43-0685)				
40 05 23 43-0763	EA	3/4"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	127.11 31.32	46.98
40 05 23 43-0764	EA	1"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	151.69 38.38	57.57
40 05 23 43-0765	EA	1-1/4"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	183.17 43.13	64.69
40 05 23 43-0766	EA	1-1/2"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	190.97 49.16	73.74
40 05 23 43-0767	EA	2"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	203.19 52.83	79.23
40 05 23 43-0768	EA	2-1/2"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	267.76 57.57	86.36
40 05 23 43-0769	EA	3"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	268.92 69.01	103.51
40 05 23 43-0770	EA	4"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	357.89 86.25	129.38
40 05 23 43-0771	EA	6"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	490.94 98.55	147.82
40 05 23 43-0772	EA	8"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	912.78 142.34	213.50
40 05 23 43-0773	EA	10"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,626.36 189.79	284.68
40 05 23 43-0774	EA	12"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,153.08 284.68	427.01
40 05 23 43-0775	EA	14"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,461.26 342.00	513.00
40 05 23 43-0776	EA	16"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,045.30 417.18	625.77
40 05 23 43-0777	EA	18"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,929.14 531.39	797.09
40 05 23 43-0778	EA	20"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,562.06 699.20	1,048.80
40 05 23 43-0779	EA	24"	Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	8,686.06 1,061.84	1,592.76
40 05 23 43-0780	Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 43-0685)				
40 05 23 43-0781	EA	3/4"	Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	102.51 28.48	42.72
40 05 23 43-0782	EA	1"	Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	112.79 31.04	46.55
40 05 23 43-0783	EA	1-1/4"	Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	125.71 34.41	51.61
40 05 23 43-0784	EA	1-1/2"	Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	132.74 37.50	56.25
40 05 23 43-0785	EA	2"	Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	144.90 41.41	62.12

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0786 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	189.01 51.75	77.62
40 05 23 43-0787 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	219.08 58.91	88.37
40 05 23 43-0788 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	243.52 69.04	103.55
40 05 23 43-0789 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	331.86 87.89	131.83
40 05 23 43-0790 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	513.12 136.64	204.96
40 05 23 43-0791 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	659.84 170.81	256.21
40 05 23 43-0792 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	882.31 227.74	341.61
40 05 23 43-0793 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,235.05 298.91	448.36
40 05 23 43-0794 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,429.12 340.64	510.96
40 05 23 43-0795 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,773.53 427.01	640.51
40 05 23 43-0796 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,471.20 569.35	854.03
40 05 23 43-0797 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,615.54 854.03	1,281.04
40 05 23 43-0798 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	116.19 28.48	42.72
40 05 23 43-0799 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	129.04 31.04	46.55
40 05 23 43-0800 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	144.97 34.41	51.61
40 05 23 43-0801 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	155.27 37.50	56.25
40 05 23 43-0802 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	158.81 41.41	62.12
40 05 23 43-0803 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	208.23 51.75	77.62
40 05 23 43-0804 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	238.80 58.91	88.37
40 05 23 43-0805 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	270.25 69.04	103.55
40 05 23 43-0806 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	377.79 87.89	131.83
40 05 23 43-0807 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	612.67 136.64	204.96
40 05 23 43-0808 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	831.28 170.81	256.21
40 05 23 43-0809 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,060.21 227.74	341.61
40 05 23 43-0810 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,572.42 298.91	448.36
40 05 23 43-0811 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,836.88 340.64	510.96
40 05 23 43-0812 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,280.15 427.01	640.51
40 05 23 43-0813 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,281.44 569.35	854.03
40 05 23 43-0814 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,577.76 854.03	1,281.04
40 05 23 43-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 43-0885)		
40 05 23 43-0816 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	56.90 14.75	22.13
40 05 23 43-0817 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	62.56 15.65	23.48
40 05 23 43-0818 EA 1", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	68.60 17.20	25.80
40 05 23 43-0819 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	74.98 18.75	28.13
40 05 23 43-0820 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	81.35 20.71	31.06
40 05 23 43-0821 EA 2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	86.47 23.04	34.55
40 05 23 43-0822 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	108.52 29.48	44.23
40 05 23 43-0823 EA 3", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	128.20 34.55	51.83
40 05 23 43-0824 EA 4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	153.53 41.36	62.04
40 05 23 43-0825 EA 6", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	198.55 51.75	77.62
40 05 23 43-0826 EA 8", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	331.44 85.40	128.10



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0827	EA	10", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	440.11 113.87	170.80
40 05 23 43-0828	EA	12", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	650.49 170.81	256.21
40 05 23 43-0829	EA	14", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	757.01 199.27	298.91
40 05 23 43-0830	EA	16", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	869.08 227.31	340.96
40 05 23 43-0831	EA	18", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,094.02 284.68	427.01
40 05 23 43-0832	EA	20", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,518.79 398.54	597.81
40 05 23 43-0833	EA	24", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,270.93 569.35	854.02
40 05 23 43-0834		Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 43-0834)		
40 05 23 43-0835		Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 43-0834)		
40 05 23 43-0836	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	19.93 2.33	3.88
40 05 23 43-0837	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	24.20 2.85	4.75
40 05 23 43-0838	LF	1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	29.80 3.34	5.60
40 05 23 43-0839	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	37.27 4.18	6.90
40 05 23 43-0840	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	43.03 4.70	7.76
40 05 23 43-0841	LF	2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	55.35 5.83	9.92
40 05 23 43-0842	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	69.30 6.66	11.22
40 05 23 43-0843	LF	3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	66.46 7.50	12.51
40 05 23 43-0844	LF	4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	113.43 8.87	14.66
40 05 23 43-0845	LF	6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	178.94 11.66	19.41
40 05 23 43-0846	LF	8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	312.62 21.74	33.65
40 05 23 43-0847	LF	10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	399.92 23.91	37.20
40 05 23 43-0848	LF	12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	502.17 26.57	41.18
40 05 23 43-0849		Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 43-0834)		
40 05 23 43-0850	EA	1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	103.06 29.49	44.24
40 05 23 43-0851	EA	3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	109.11 31.31	46.96
40 05 23 43-0852	EA	1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	120.16 34.41	51.61
40 05 23 43-0853	EA	1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	130.89 37.50	56.25
40 05 23 43-0854	EA	1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	144.38 41.41	62.12
40 05 23 43-0855	EA	2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	162.38 46.07	69.11
40 05 23 43-0856	EA	2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	214.68 58.97	88.44
40 05 23 43-0857	EA	3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	253.94 69.11	103.66
40 05 23 43-0858	EA	4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	319.03 82.72	124.08
40 05 23 43-0859	EA	6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	476.79 103.33	155.00
40 05 23 43-0860	EA	8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	818.16 170.81	256.21
40 05 23 43-0861	EA	10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,302.56 227.74	341.61
40 05 23 43-0862	EA	12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,868.22 341.61	512.41
40 05 23 43-0863	EA	14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,100.36 398.54	597.81
40 05 23 43-0864	EA	16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,529.34 454.61	681.92
40 05 23 43-0865	EA	18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,221.82 569.35	854.03
40 05 23 43-0866	EA	20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,370.39 797.09	1,195.64

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0867 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,330.58 1,138.70	1,708.05
40 05 23 43-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 43-0834)		
40 05 23 43-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	104.82 29.49	44.24
40 05 23 43-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	110.87 31.31	46.96
40 05 23 43-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	121.21 34.41	51.61
40 05 23 43-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	131.40 37.50	56.25
40 05 23 43-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	145.43 41.41	62.12
40 05 23 43-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	162.38 46.07	69.11
40 05 23 43-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	214.68 58.97	88.44
40 05 23 43-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	247.08 69.11	103.66
40 05 23 43-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	306.00 82.72	124.08
40 05 23 43-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	423.29 103.33	155.00
40 05 23 43-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	723.89 170.81	256.21
40 05 23 43-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,085.31 227.74	341.61
40 05 23 43-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,577.39 341.61	512.41
40 05 23 43-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,799.36 398.54	597.81
40 05 23 43-0883 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,035.51 454.61	681.92
40 05 23 43-0884 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,607.04 569.35	854.03
40 05 23 43-0885 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,559.43 797.09	1,195.64
40 05 23 43-0886 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,247.58 1,138.70	1,708.05
40 05 23 43-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 43-0834)		
40 05 23 43-0888 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	137.98 37.49	56.23
40 05 23 43-0889 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	166.43 46.02	69.04
40 05 23 43-0890 EA 1", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	185.38 51.71	77.56
40 05 23 43-0891 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	213.06 58.97	88.44
40 05 23 43-0892 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	224.00 63.29	94.94
40 05 23 43-0893 EA 2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	244.20 69.04	103.55
40 05 23 43-0894 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	301.71 82.72	124.08
40 05 23 43-0895 EA 3", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	373.70 103.66	155.49
40 05 23 43-0896 EA 4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	430.05 116.34	174.51
40 05 23 43-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	657.00 155.12	232.68
40 05 23 43-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,103.94 227.74	341.61
40 05 23 43-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,828.49 341.61	512.41
40 05 23 43-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,253.45 427.01	640.51
40 05 23 43-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,158.41 513.15	769.73
40 05 23 43-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,906.54 625.98	938.98
40 05 23 43-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,050.21 797.09	1,195.64
40 05 23 43-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,570.55 1,048.80	1,573.20
40 05 23 43-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	9,477.82 1,594.18	2,391.26
40 05 23 43-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 43-0834)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0907	EA		3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	130.46 31.32	46.98
40 05 23 43-0908	EA		1", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	153.98 38.38	57.57
40 05 23 43-0909	EA		1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	197.25 43.13	64.69
40 05 23 43-0910	EA		1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	196.43 49.16	73.74
40 05 23 43-0911	EA		2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	203.19 52.83	79.23
40 05 23 43-0912	EA		2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	268.81 57.57	86.36
40 05 23 43-0913	EA		3", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	276.48 69.01	103.51
40 05 23 43-0914	EA		4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	365.46 86.25	129.38
40 05 23 43-0915	EA		6", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	495.69 98.55	147.82
40 05 23 43-0916	EA		8", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	819.26 142.34	213.50
40 05 23 43-0917	EA		10", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,649.75 189.79	284.68
40 05 23 43-0918	EA		12", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,199.84 284.68	427.01
40 05 23 43-0919	EA		14", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,512.56 342.00	513.00
40 05 23 43-0920	EA		16", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,109.56 417.18	625.77
40 05 23 43-0921	EA		18", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,012.93 531.39	797.09
40 05 23 43-0922	EA		20", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,687.55 699.20	1,048.80
40 05 23 43-0923	EA		24", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	8,885.92 1,061.84	1,592.76
40 05 23 43-0924			Type 316, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 43-0834)		
40 05 23 43-0925	EA		3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	105.32 28.48	42.72
40 05 23 43-0926	EA		1", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	115.60 31.04	46.55
40 05 23 43-0927	EA		1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	126.99 34.41	51.61
40 05 23 43-0928	EA		1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	135.91 37.50	56.25
40 05 23 43-0929	EA		2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	146.84 41.41	62.12
40 05 23 43-0930	EA		2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	195.20 51.75	77.62
40 05 23 43-0931	EA		3", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	212.22 58.91	88.37
40 05 23 43-0932	EA		4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	245.96 69.04	103.55
40 05 23 43-0933	EA		6", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	333.09 87.89	131.83
40 05 23 43-0934	EA		8", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	549.95 136.64	204.96
40 05 23 43-0935	EA		10", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	729.21 170.81	256.21
40 05 23 43-0936	EA		12", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	932.11 227.74	341.61
40 05 23 43-0937	EA		14", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,329.91 298.91	448.36
40 05 23 43-0938	EA		16", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,530.07 340.64	510.96
40 05 23 43-0939	EA		18", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,025.70 427.01	640.51
40 05 23 43-0940	EA		20", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,740.93 569.35	854.03
40 05 23 43-0941	EA		24", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,956.14 854.03	1,281.04
40 05 23 43-0942	EA		3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	125.21 28.48	42.72
40 05 23 43-0943	EA		1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	133.73 31.04	46.55
40 05 23 43-0944	EA		1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	154.12 34.41	51.61
40 05 23 43-0945	EA		1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	160.73 37.50	56.25
40 05 23 43-0946	EA		2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	173.24 41.41	62.12
40 05 23 43-0947	EA		2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	208.23 51.75	77.62

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0948 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	263.08	88.37
For Work In Restricted Working Space, Add	58.91	
40 05 23 43-0949 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	289.61	103.55
For Work In Restricted Working Space, Add	69.04	
40 05 23 43-0950 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	404.72	131.83
For Work In Restricted Working Space, Add	87.89	
40 05 23 43-0951 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	603.55	204.96
For Work In Restricted Working Space, Add	136.64	
40 05 23 43-0952 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	847.06	256.21
For Work In Restricted Working Space, Add	170.81	
40 05 23 43-0953 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	1,167.80	341.61
For Work In Restricted Working Space, Add	227.74	
40 05 23 43-0954 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	1,725.90	448.36
For Work In Restricted Working Space, Add	298.91	
40 05 23 43-0955 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	1,985.95	510.96
For Work In Restricted Working Space, Add	340.64	
40 05 23 43-0956 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	2,648.88	640.51
For Work In Restricted Working Space, Add	427.01	
40 05 23 43-0957 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	3,418.95	854.03
For Work In Restricted Working Space, Add	569.35	
40 05 23 43-0958 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	5,125.90	1,281.04
For Work In Restricted Working Space, Add	854.03	
40 05 23 43-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 43-0834)		
40 05 23 43-0960 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap	57.26	22.13
For Work In Restricted Working Space, Add	14.75	
40 05 23 43-0961 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap	62.39	23.48
For Work In Restricted Working Space, Add	15.65	
40 05 23 43-0962 EA 1", Type 316, Schedule 40 Stainless Steel Cap	68.96	25.80
For Work In Restricted Working Space, Add	17.20	
40 05 23 43-0963 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap	78.24	28.13
For Work In Restricted Working Space, Add	18.75	
40 05 23 43-0964 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap	78.71	31.06
For Work In Restricted Working Space, Add	20.71	
40 05 23 43-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap	88.93	34.55
For Work In Restricted Working Space, Add	23.04	
40 05 23 43-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap	111.72	44.23
For Work In Restricted Working Space, Add	29.48	
40 05 23 43-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap	128.73	51.83
For Work In Restricted Working Space, Add	34.55	
40 05 23 43-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap	157.41	62.04
For Work In Restricted Working Space, Add	41.36	
40 05 23 43-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap	214.74	77.62
For Work In Restricted Working Space, Add	51.75	
40 05 23 43-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap	361.86	128.10
For Work In Restricted Working Space, Add	85.40	
40 05 23 43-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap	484.87	170.80
For Work In Restricted Working Space, Add	113.87	
40 05 23 43-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap	723.69	256.21
For Work In Restricted Working Space, Add	170.81	
40 05 23 43-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap	827.95	298.91
For Work In Restricted Working Space, Add	199.27	
40 05 23 43-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap	932.63	340.96
For Work In Restricted Working Space, Add	227.31	
40 05 23 43-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap	1,187.07	427.01
For Work In Restricted Working Space, Add	284.68	
40 05 23 43-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap	1,635.93	597.81
For Work In Restricted Working Space, Add	398.54	
40 05 23 43-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap	2,499.04	854.02
For Work In Restricted Working Space, Add	569.35	
40 05 23 43-0978 Valves (40 05 23 43-0231)		
40 05 23 43-0979 Gate Valves, Class 150 (40 05 23 43-0978)		
40 05 23 43-0980 EA 1/2" Gate Valve, Stainless Steel, Flanged	487.22	44.45
For Work In Restricted Working Space, Add	16.67	
For Class 200, Deduct	-115.47	
For Class 300, Add	405.76	
40 05 23 43-0981 EA 3/4" Gate Valve, Stainless Steel, Flanged	529.46	46.30
For Work In Restricted Working Space, Add	19.45	
For Class 200, Deduct	-124.29	
For Class 300, Add	436.76	
40 05 23 43-0982 EA 1" Gate Valve, Stainless Steel, Flanged	652.70	69.45
For Work In Restricted Working Space, Add	26.21	
For Class 200, Deduct	-151.23	
For Class 300, Add	531.42	
40 05 23 43-0983 EA 1-1/4" Gate Valve, Stainless Steel, Flanged	822.74	81.03
For Work In Restricted Working Space, Add	30.20	
For Class 200, Deduct	-193.16	
For Class 300, Add	678.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0984 EA 1-1/2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	927.94 38.25 -214.12 752.42	101.99
40 05 23 43-0985 EA 2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,101.60 46.30 -253.39 890.43	123.43
40 05 23 43-0986 EA 2-1/2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	1,581.62 50.51 1,328.46	134.27
40 05 23 43-0987 EA 3" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	1,781.52 59.11 1,489.43	157.42
40 05 23 43-0988 EA 4" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	2,357.66 99.21 1,905.33	263.90
40 05 23 43-0989 EA 6" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	3,941.52 125.46 3,311.93	333.36
40 05 23 43-0990 EA 8" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	8,591.91 158.74 7,579.00	425.96
40 05 23 43-0991 EA 10" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	12,107.01 194.46 10,771.29	518.56
40 05 23 43-0992 EA 12" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	18,224.63 235.71 16,392.59	629.68
40 05 23 43-0993 Globe Valves, Class 150 (40 05 23 43-0978)		
40 05 23 43-0994 EA 1/2" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	665.34 16.67 -163.12 573.19	44.45
40 05 23 43-0995 EA 3/4" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	736.45 19.45 -179.66 631.33	46.30
40 05 23 43-0996 EA 1" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	918.06 26.21 -222.21 780.86	69.45
40 05 23 43-0997 EA 1-1/2" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,364.71 38.25 -330.96 1,162.99	101.99
40 05 23 43-0998 EA 2" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,665.52 46.30 -404.24 1,420.52	123.43
40 05 23 43-0999 EA 2-1/2" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	3,349.82 50.51 2,990.56	134.27
40 05 23 43-1000 EA 3" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	3,466.84 59.11 3,073.63	157.42
40 05 23 43-1001 EA 4" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	4,130.76 99.21 3,572.05	263.90
40 05 23 43-1002 EA 6" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	7,620.62 125.46 6,770.28	333.36
40 05 23 43-1003 Check Valves, Class 150 (40 05 23 43-0978)		
40 05 23 43-1004 EA 2-1/2" Check Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	1,513.80 50.51 1,264.70	134.27
40 05 23 43-1005 EA 3" Check Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	1,584.40 59.11 1,304.14	157.42
40 05 23 43-1006 EA 4" Check Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	2,489.89 99.21 2,029.63	263.90
40 05 23 43-1007 EA 6" Check Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	4,277.15 125.46 3,627.42	333.36
40 05 23 43-1008 EA 8" Check Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	7,512.01 158.74 6,563.90	425.96
40 05 23 43-1009 Stainless Steel Thread-O-Let Fittings (40 05 23 43-0231)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1010	EA	1/2", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	67.49 17.92	26.88
40 05 23 43-1011	EA	3/4", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	89.34 23.90	35.84
40 05 23 43-1012	EA	1", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	110.32 29.63	44.45
40 05 23 43-1013	EA	1-1/4", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	157.67 41.93	62.89
40 05 23 43-1014	EA	1-1/2", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	175.52 47.29	70.93
40 05 23 43-1015	EA	2", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	220.60 60.07	90.09
40 05 23 43-1016	EA	2-1/2", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	377.04 92.60	138.90
40 05 23 43-1017	EA	3", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	498.27 118.21	177.32
40 05 23 43-1018	EA	4", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	648.05 148.16	222.24
40 05 23 43-1019 Stainless Steel Flanges (40 05 23 43-0231)				
40 05 23 43-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 43-1019)				
40 05 23 43-1021	EA	1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	45.47 8.96	14.93
40 05 23 43-1022	EA	3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	57.15 11.95	19.91
40 05 23 43-1023	EA	1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	68.79 14.81	24.69
40 05 23 43-1024	EA	1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	94.49 20.97	34.95
40 05 23 43-1025	EA	1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	103.41 23.64	39.40
40 05 23 43-1026	EA	2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	132.34 30.03	50.05
40 05 23 43-1027	EA	2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	199.37 46.30	77.13
40 05 23 43-1028	EA	3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	244.15 59.11	157.42
40 05 23 43-1029	EA	4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	311.38 74.08	123.43
40 05 23 43-1030 300#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 43-1019)				
40 05 23 43-1031	EA	1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	54.48 8.96	14.93
40 05 23 43-1032	EA	3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	64.43 11.95	19.91
40 05 23 43-1033	EA	1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	73.98 14.81	24.69
40 05 23 43-1034	EA	1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	107.67 20.97	34.95
40 05 23 43-1035	EA	1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	116.59 23.64	39.40
40 05 23 43-1036	EA	2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	145.85 30.03	50.05
40 05 23 43-1037	EA	2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	229.53 46.30	77.13
40 05 23 43-1038	EA	3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	274.98 59.11	157.42
40 05 23 43-1039	EA	4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	358.86 74.08	123.43
40 05 23 43-1040 150#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 43-1019)				
40 05 23 43-1041	EA	1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	64.75 14.75	22.12
40 05 23 43-1042	EA	3/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	69.50 15.65	23.48
40 05 23 43-1043	EA	1", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	77.44 17.21	25.80
40 05 23 43-1044	EA	1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	91.33 18.77	28.15
40 05 23 43-1045	EA	1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	97.72 20.69	31.02
40 05 23 43-1046	EA	2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	108.68 23.04	34.56
40 05 23 43-1047	EA	2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	146.39 29.46	44.19
40 05 23 43-1048	EA	3", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	167.66 34.50	51.74
40 05 23 43-1049	EA	4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	211.23 41.33	62.00



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1050	EA	6", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	298.96 51.64	77.46
40 05 23 43-1051	EA	8", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	499.51 85.40	128.10
40 05 23 43-1052	EA	10", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	696.62 113.87	170.80
40 05 23 43-1053	EA	12", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,064.14 170.81	256.21
40 05 23 43-1054	EA	14", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,307.23 199.27	298.91
40 05 23 43-1055	EA	16", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,596.74 227.31	340.96
40 05 23 43-1056	EA	18", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,968.19 284.68	427.01
40 05 23 43-1057	EA	20", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,598.34 398.54	597.81
40 05 23 43-1058	EA	24", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,697.33 569.35	854.02
40 05 23 43-1059		300#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 43-1019)		
40 05 23 43-1060	EA	1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	75.50 14.75	22.12
40 05 23 43-1061	EA	3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	78.52 15.65	23.48
40 05 23 43-1062	EA	1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	83.69 17.21	25.80
40 05 23 43-1063	EA	1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	103.44 18.77	28.15
40 05 23 43-1064	EA	1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	109.83 20.69	31.02
40 05 23 43-1065	EA	2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	119.08 23.04	34.56
40 05 23 43-1066	EA	2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	164.39 29.46	44.19
40 05 23 43-1067	EA	3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	187.75 34.50	51.74
40 05 23 43-1068	EA	4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	258.34 41.33	62.00
40 05 23 43-1069	EA	6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	352.32 51.64	77.46
40 05 23 43-1070	EA	8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	632.56 85.40	128.10
40 05 23 43-1071	EA	10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	872.30 113.87	170.80
40 05 23 43-1072	EA	12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,287.30 170.81	256.21
40 05 23 43-1073	EA	14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,659.99 199.27	298.91
40 05 23 43-1074	EA	16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,018.61 227.31	340.96
40 05 23 43-1075	EA	18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,568.92 284.68	427.01
40 05 23 43-1076	EA	20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,366.94 398.54	597.81
40 05 23 43-1077	EA	24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,884.40 569.35	854.02
40 05 23 43-1078		150#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 43-1019)		
40 05 23 43-1079	EA	1/2", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	112.17 29.49	44.23
40 05 23 43-1080	EA	3/4", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	118.57 31.31	46.95
40 05 23 43-1081	EA	1", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	130.30 34.41	51.61
40 05 23 43-1082	EA	1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	146.25 37.53	56.29
40 05 23 43-1083	EA	1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	159.03 41.37	62.05
40 05 23 43-1084	EA	2", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	181.00 46.08	69.12
40 05 23 43-1085	EA	2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	234.90 58.93	88.38
40 05 23 43-1086	EA	3", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	271.22 68.99	103.48
40 05 23 43-1087	EA	4", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	331.70 82.67	124.00
40 05 23 43-1088	EA	6", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	429.87 103.28	154.92
40 05 23 43-1089	EA	8", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	731.17 170.81	256.21
40 05 23 43-1090	EA	10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	1,010.34 227.74	341.61

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1091 EA 12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,509.79 341.61	512.40
40 05 23 43-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 43-1019)		
40 05 23 43-1093 EA 1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange For Work In Restricted Working Space, Add	119.10 29.49	44.23
40 05 23 43-1094 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	125.15 31.31	46.95
40 05 23 43-1095 EA 1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	135.50 34.41	51.61
40 05 23 43-1096 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	156.99 37.53	56.29
40 05 23 43-1097 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	169.77 41.37	62.05
40 05 23 43-1098 EA 2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	188.26 46.08	69.12
40 05 23 43-1099 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	261.94 58.93	88.38
40 05 23 43-1100 EA 3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	298.24 68.99	103.48
40 05 23 43-1101 EA 4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	369.11 82.67	124.00
40 05 23 43-1102 EA 6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	535.55 103.28	154.92
40 05 23 43-1103 EA 8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	837.89 170.81	256.21
40 05 23 43-1104 EA 10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,182.21 227.74	341.61
40 05 23 43-1105 EA 12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,730.87 341.61	512.40
40 05 23 43-1106 150#, Type 304 Stainless Steel Blind Flanges (40 05 23 43-1019)		
40 05 23 43-1107 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	34.45 5.90	8.84
40 05 23 43-1108 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	36.11 6.26	9.38
40 05 23 43-1109 EA 1", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	39.23 6.88	10.32
40 05 23 43-1110 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	48.75 7.66	11.49
40 05 23 43-1111 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	57.72 10.35	15.52
40 05 23 43-1112 EA 2", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	67.06 11.49	17.24
40 05 23 43-1113 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	90.12 14.77	22.16
40 05 23 43-1114 EA 3", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	114.04 20.70	31.05
40 05 23 43-1115 EA 4", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	178.04 34.49	51.73
40 05 23 43-1116 EA 6", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	240.00 44.35	66.52
40 05 23 43-1117 EA 8", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	345.88 53.14	79.71
40 05 23 43-1118 EA 10", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	505.70 63.77	95.65
40 05 23 43-1119 EA 12", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	662.44 79.71	119.56
40 05 23 43-1120 EA 14", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	839.64 99.64	149.45
40 05 23 43-1121 EA 16", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,061.63 113.66	170.48
40 05 23 43-1122 EA 18", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,266.78 142.34	213.50
40 05 23 43-1123 EA 20", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,697.54 199.27	298.91
40 05 23 43-1124 EA 24", 150#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	2,464.19 284.68	427.01
40 05 23 43-1125 300#, Type 304 Stainless Steel Blind Flanges (40 05 23 43-1019)		
40 05 23 43-1126 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	41.50 5.90	8.84
40 05 23 43-1127 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	42.71 6.26	9.38
40 05 23 43-1128 EA 1", 300#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	44.78 6.88	10.32
40 05 23 43-1129 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	55.33 7.66	11.49
40 05 23 43-1130 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	64.30 10.35	15.52



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1131	EA	2", 300#, Type 304 Stainless Steel Raised Face Blind Flange	70.52	17.24
		For Work In Restricted Working Space, Add	11.49	
40 05 23 43-1132	EA	2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	114.37	22.16
		For Work In Restricted Working Space, Add	14.77	
40 05 23 43-1133	EA	3", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	136.74	31.05
		For Work In Restricted Working Space, Add	20.70	
40 05 23 43-1134	EA	4", 300#, Type 304 Stainless Steel Raised Face Blind Flange	206.44	51.73
		For Work In Restricted Working Space, Add	34.49	
40 05 23 43-1135	EA	6", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	357.11	66.52
		For Work In Restricted Working Space, Add	44.35	
40 05 23 43-1136	EA	8", 300#, Type 304 Stainless Steel Raised Face Blind Flange	485.86	79.71
		For Work In Restricted Working Space, Add	53.14	
40 05 23 43-1137	EA	10", 300#, Type 304 Stainless Steel Raised Face Blind Flange	676.17	95.65
		For Work In Restricted Working Space, Add	63.77	
40 05 23 43-1138	EA	12", 300#, Type 304 Stainless Steel Raised Face Blind Flange	924.05	119.56
		For Work In Restricted Working Space, Add	79.71	
40 05 23 43-1139	EA	14", 300#, Type 304 Stainless Steel Raised Face Blind Flange	1,275.97	149.45
		For Work In Restricted Working Space, Add	99.64	
40 05 23 43-1140	EA	16", 300#, Type 304 Stainless Steel Raised Face Blind Flange	1,612.52	170.48
		For Work In Restricted Working Space, Add	113.66	
40 05 23 43-1141	EA	18", 300#, Type 304 Stainless Steel Raised Face Blind Flange	2,095.85	213.50
		For Work In Restricted Working Space, Add	142.34	
40 05 23 43-1142	EA	20", 300#, Type 304 Stainless Steel Raised Face Blind Flange	2,681.19	298.91
		For Work In Restricted Working Space, Add	199.27	
40 05 23 43-1143	EA	24", 300#, Type 304 Stainless Steel Raised Face Blind Flange	4,082.04	427.01
		For Work In Restricted Working Space, Add	284.68	
40 05 23 43-1144		150#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 43-1019)		
40 05 23 43-1145	EA	1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....	51.72	14.93
		For Work In Restricted Working Space, Add	8.96	
40 05 23 43-1146	EA	3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....	65.13	19.91
		For Work In Restricted Working Space, Add	11.95	
40 05 23 43-1147	EA	1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....	76.40	24.69
		For Work In Restricted Working Space, Add	14.81	
40 05 23 43-1148	EA	1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....	105.92	34.95
		For Work In Restricted Working Space, Add	20.97	
40 05 23 43-1149	EA	1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....	114.84	39.40
		For Work In Restricted Working Space, Add	23.64	
40 05 23 43-1150	EA	2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....	144.82	50.05
		For Work In Restricted Working Space, Add	30.03	
40 05 23 43-1151	EA	2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....	217.40	77.13
		For Work In Restricted Working Space, Add	46.30	
40 05 23 43-1152	EA	3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....	267.37	157.42
		For Work In Restricted Working Space, Add	59.11	
40 05 23 43-1153	EA	4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....	343.95	123.43
		For Work In Restricted Working Space, Add	74.08	
40 05 23 43-1154		300#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 43-1019)		
40 05 23 43-1155	EA	1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....	63.50	14.93
		For Work In Restricted Working Space, Add	8.96	
40 05 23 43-1156	EA	3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....	73.45	19.91
		For Work In Restricted Working Space, Add	11.95	
40 05 23 43-1157	EA	1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....	83.00	24.69
		For Work In Restricted Working Space, Add	14.81	
40 05 23 43-1158	EA	1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....	125.00	34.95
		For Work In Restricted Working Space, Add	20.97	
40 05 23 43-1159	EA	1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....	133.92	39.40
		For Work In Restricted Working Space, Add	23.64	
40 05 23 43-1160	EA	2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....	161.10	50.05
		For Work In Restricted Working Space, Add	30.03	
40 05 23 43-1161	EA	2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....	263.83	77.13
		For Work In Restricted Working Space, Add	46.30	
40 05 23 43-1162	EA	3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....	309.98	157.42
		For Work In Restricted Working Space, Add	59.11	
40 05 23 43-1163	EA	4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....	414.63	123.43
		For Work In Restricted Working Space, Add	74.08	
40 05 23 43-1164		150#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 43-1019)		
40 05 23 43-1165	EA	1/2", 150#, Type 316 Stainless Steel Weld Neck Flange.....	72.71	22.12
		For Work In Restricted Working Space, Add	14.75	
40 05 23 43-1166	EA	3/4", 150#, Type 316 Stainless Steel Weld Neck Flange.....	77.48	23.48
		For Work In Restricted Working Space, Add	15.65	
40 05 23 43-1167	EA	1", 150#, Type 316 Stainless Steel Weld Neck Flange.....	86.45	25.80
		For Work In Restricted Working Space, Add	17.21	
40 05 23 43-1168	EA	1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange.....	103.11	28.15
		For Work In Restricted Working Space, Add	18.77	
40 05 23 43-1169	EA	1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange.....	109.50	31.02
		For Work In Restricted Working Space, Add	20.69	
40 05 23 43-1170	EA	2", 150#, Type 316 Stainless Steel Weld Neck Flange.....	120.81	34.56
		For Work In Restricted Working Space, Add	23.04	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1171 EA 2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange.....	166.81	44.19
For Work In Restricted Working Space, Add	29.46	
40 05 23 43-1172 EA 3", 150#, Type 316 Stainless Steel Weld Neck Flange.....	186.02	51.74
For Work In Restricted Working Space, Add	34.50	
40 05 23 43-1173 EA 4", 150#, Type 316 Stainless Steel Weld Neck Flange.....	242.42	62.00
For Work In Restricted Working Space, Add	41.33	
40 05 23 43-1174 EA 6", 150#, Type 316 Stainless Steel Weld Neck Flange.....	353.02	77.46
For Work In Restricted Working Space, Add	51.64	
40 05 23 43-1175 EA 8", 150#, Type 316 Stainless Steel Weld Neck Flange.....	583.02	128.10
For Work In Restricted Working Space, Add	85.40	
40 05 23 43-1176 EA 10", 150#, Type 316 Stainless Steel Weld Neck Flange.....	835.91	170.80
For Work In Restricted Working Space, Add	113.87	
40 05 23 43-1177 EA 12", 150#, Type 316 Stainless Steel Weld Neck Flange.....	1,248.15	256.21
For Work In Restricted Working Space, Add	170.81	
40 05 23 43-1178 EA 14", 150#, Type 316 Stainless Steel Weld Neck Flange.....	1,459.62	298.91
For Work In Restricted Working Space, Add	199.27	
40 05 23 43-1179 EA 16", 150#, Type 316 Stainless Steel Weld Neck Flange.....	1,795.61	340.96
For Work In Restricted Working Space, Add	227.31	
40 05 23 43-1180 EA 18", 150#, Type 316 Stainless Steel Weld Neck Flange.....	2,209.77	427.01
For Work In Restricted Working Space, Add	284.68	
40 05 23 43-1181 EA 20", 150#, Type 316 Stainless Steel Weld Neck Flange.....	2,899.31	597.81
For Work In Restricted Working Space, Add	398.54	
40 05 23 43-1182 EA 24", 150#, Type 316 Stainless Steel Weld Neck Flange.....	4,123.84	854.02
For Work In Restricted Working Space, Add	569.35	
40 05 23 43-1183 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 43-1019)		
40 05 23 43-1184 EA 1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	85.89	22.12
For Work In Restricted Working Space, Add	14.75	
40 05 23 43-1185 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	88.91	23.48
For Work In Restricted Working Space, Add	15.65	
40 05 23 43-1186 EA 1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	94.08	25.80
For Work In Restricted Working Space, Add	17.21	
40 05 23 43-1187 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	117.67	28.15
For Work In Restricted Working Space, Add	18.77	
40 05 23 43-1188 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	124.06	31.02
For Work In Restricted Working Space, Add	20.69	
40 05 23 43-1189 EA 2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	136.40	34.56
For Work In Restricted Working Space, Add	23.04	
40 05 23 43-1190 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	194.20	44.19
For Work In Restricted Working Space, Add	29.46	
40 05 23 43-1191 EA 3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	215.82	51.74
For Work In Restricted Working Space, Add	34.50	
40 05 23 43-1192 EA 4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	310.32	62.00
For Work In Restricted Working Space, Add	41.33	
40 05 23 43-1193 EA 6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	480.87	77.46
For Work In Restricted Working Space, Add	51.64	
40 05 23 43-1194 EA 8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	763.90	128.10
For Work In Restricted Working Space, Add	85.40	
40 05 23 43-1195 EA 10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	1,085.04	170.80
For Work In Restricted Working Space, Add	113.87	
40 05 23 43-1196 EA 12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	1,599.83	256.21
For Work In Restricted Working Space, Add	170.81	
40 05 23 43-1197 EA 14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	2,114.56	298.91
For Work In Restricted Working Space, Add	199.27	
40 05 23 43-1198 EA 16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	2,594.22	340.96
For Work In Restricted Working Space, Add	227.31	
40 05 23 43-1199 EA 18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	3,308.45	427.01
For Work In Restricted Working Space, Add	284.68	
40 05 23 43-1200 EA 20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	4,297.51	597.81
For Work In Restricted Working Space, Add	398.54	
40 05 23 43-1201 EA 24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....	6,247.78	854.02
For Work In Restricted Working Space, Add	569.35	
40 05 23 43-1202 150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 43-1019)		
40 05 23 43-1203 EA 1/2", 150#, Type 316 Stainless Steel Slip-On Flange.....	116.33	44.23
For Work In Restricted Working Space, Add	29.49	
40 05 23 43-1204 EA 3/4", 150#, Type 316 Stainless Steel Slip-On Flange.....	124.82	46.95
For Work In Restricted Working Space, Add	31.31	
40 05 23 43-1205 EA 1", 150#, Type 316 Stainless Steel Slip-On Flange.....	137.46	51.61
For Work In Restricted Working Space, Add	34.41	
40 05 23 43-1206 EA 1-1/4", 150#, Type 316 Stainless Steel Slip-On Flange.....	172.36	56.29
For Work In Restricted Working Space, Add	37.53	
40 05 23 43-1207 EA 1-1/2", 150#, Type 316 Stainless Steel Slip-On Flange.....	167.34	62.05
For Work In Restricted Working Space, Add	41.37	
40 05 23 43-1208 EA 2", 150#, Type 316 Stainless Steel Slip-On Flange.....	183.06	69.12
For Work In Restricted Working Space, Add	46.08	
40 05 23 43-1209 EA 2-1/2", 150#, Type 316 Stainless Steel Slip-On Flange.....	233.52	88.38
For Work In Restricted Working Space, Add	58.93	
40 05 23 43-1210 EA 3", 150#, Type 316 Stainless Steel Slip-On Flange.....	282.99	103.48
For Work In Restricted Working Space, Add	68.99	
40 05 23 43-1211 EA 4", 150#, Type 316 Stainless Steel Slip-On Flange.....	356.64	124.00
For Work In Restricted Working Space, Add	82.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1212 EA 6", 150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	466.94 103.28	154.92
40 05 23 43-1213 EA 8", 150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	807.73 170.81	256.21
40 05 23 43-1214 EA 10" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,114.99 227.74	341.61
40 05 23 43-1215 EA 12" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,649.77 341.61	512.40
40 05 23 43-1216 300#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 43-1019)		
40 05 23 43-1217 EA 1/2" 300#, Type 316 Stainless Steel Raised Neck Slip-On Flange For Work In Restricted Working Space, Add	126.03 29.49	44.23
40 05 23 43-1218 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	132.08 31.31	46.95
40 05 23 43-1219 EA 1" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	142.43 34.41	51.61
40 05 23 43-1220 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	170.50 37.53	56.29
40 05 23 43-1221 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	183.28 41.37	62.05
40 05 23 43-1222 EA 2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	201.03 46.08	69.12
40 05 23 43-1223 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	292.08 58.93	88.38
40 05 23 43-1224 EA 3" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	329.07 68.99	103.48
40 05 23 43-1225 EA 4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	416.92 82.67	124.00
40 05 23 43-1226 EA 6" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	605.20 103.28	154.92
40 05 23 43-1227 EA 8" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	909.62 170.81	256.21
40 05 23 43-1228 EA 10" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,415.74 227.74	341.61
40 05 23 43-1229 EA 12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,936.69 341.61	512.40
40 05 23 43-1230 150#, Type 316 Stainless Steel Blind Flanges (40 05 23 43-1019)		
40 05 23 43-1231 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	37.68 5.90	8.84
40 05 23 43-1232 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	42.01 6.26	9.38
40 05 23 43-1233 EA 1", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	47.19 6.88	10.32
40 05 23 43-1234 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	54.98 7.66	11.49
40 05 23 43-1235 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	63.95 10.35	15.52
40 05 23 43-1236 EA 2", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	77.45 11.49	17.24
40 05 23 43-1237 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	106.41 14.77	22.16
40 05 23 43-1238 EA 3", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	132.07 20.70	31.05
40 05 23 43-1239 EA 4", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	208.52 34.49	51.73
40 05 23 43-1240 EA 6", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	288.86 44.35	66.52
40 05 23 43-1241 EA 8", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	462.64 53.14	79.71
40 05 23 43-1242 EA 10", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	597.87 63.77	95.65
40 05 23 43-1243 EA 12", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	928.21 79.71	119.56
40 05 23 43-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,111.75 99.64	149.45
40 05 23 43-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,427.70 113.66	170.48
40 05 23 43-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,691.58 142.34	213.50
40 05 23 43-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	2,251.54 199.27	298.91
40 05 23 43-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	3,276.58 284.68	427.01
40 05 23 43-1249 300#, Type 316 Stainless Steel Blind Flanges (40 05 23 43-1019)		
40 05 23 43-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	53.28 5.90	8.84
40 05 23 43-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	54.49 6.26	9.38

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	56.56 6.88	10.32
40 05 23 43-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	80.64 7.66	11.49
40 05 23 43-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	89.61 10.35	15.52
40 05 23 43-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	99.28 11.49	17.24
40 05 23 43-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	158.74 14.77	22.16
40 05 23 43-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	181.96 20.70	31.05
40 05 23 43-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	282.67 34.49	51.73
40 05 23 43-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	487.07 44.35	66.52
40 05 23 43-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	620.31 53.14	79.71
40 05 23 43-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,067.03 63.77	95.65
40 05 23 43-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,304.16 79.71	119.56
40 05 23 43-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,859.81 99.64	149.45
40 05 23 43-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,375.62 113.66	170.48
40 05 23 43-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,098.79 142.34	213.50
40 05 23 43-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,928.80 199.27	298.91
40 05 23 43-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	6,020.09 284.68	427.01
40 05 23 43-1268 Type 316 Seamless Annealed Tubing (40 05 23 43) Note: For high pressure air (8000 PSIG working pressure).		
40 05 23 43-1269 Type 316 Seamless Annealed Tubing (40 05 23 43-1268)		
40 05 23 43-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness.....	17.08	
40 05 23 43-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness.....	21.20	
40 05 23 43-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness.....	25.63	
40 05 23 43-1273 Type 316 Seamless Annealed Tubing Fittings (40 05 23 43-1268) Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.		
40 05 23 43-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	56.33	
40 05 23 43-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	61.93	
40 05 23 43-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules.....	95.14	
40 05 23 43-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	48.92	
40 05 23 43-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	80.78	
40 05 23 43-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	61.32	
40 05 23 43-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules	75.60	
40 05 23 43-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	116.36	
40 05 23 43-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	73.93	
40 05 23 43-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	114.32	
40 05 23 43-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	72.82	
40 05 23 43-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules	93.94	
40 05 23 43-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	155.27	
40 05 23 43-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	128.03	
40 05 23 43-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	157.86	
40 05 23 43-1289 Valves For High Pressure Air (5,000 PSIG) (40 05 23 43-1268)		
40 05 23 43-1290 Needle Valves (40 05 23 43-1289)		
40 05 23 43-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	289.13	
40 05 23 43-1292 EA 1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	458.92	
40 05 23 43-1293 Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG (40 05 23 43-1289)		
40 05 23 43-1294 EA 1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction.....	277.09	
40 05 23 43-1295 Other Valves Working Pressure 6,000 PSI (40 05 23 43-1289)		
40 05 23 43-1296 EA 1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG.....	1,148.28	
40 05 23 43-1297 EA 1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	288.21	
40 05 23 43-1298 EA Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element	55.85	



Process Interconnections		40	40
Common Work Results For Process Interconnections		40 05	
Stainless Steel Process Pipe and Tubing		40 05 23	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

END OF SECTION 40

40	40	Process Interconnections	
	40 05	Common Work Results For Process Interconnections	
	40 05 23	Stainless Steel Process Pipe and Tubing	



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT	COST	UNIT COST

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Process Gas and Liquid Handling, Purification, and Storage Equipment		43	43
Liquid Handling Equipment		43 20	
Dry Location Liquid Pumps		43 23	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
43 Process Gas and Liquid Handling, Purification, and Storage Equipment			
43 20 Liquid Handling Equipment (43)			
43 23 Dry Location Liquid Pumps (43 20)			
43 23 78 Controlled Volume Horizontal Reciprocating Pumps (43 23)			
43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps (43 23 78)			
43 23 78 31-0001 Diaphragm Pump (43 23 78 31)			
43 23 78 31-0002	EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI	2,711.18	
43 24 Suspended Liquid Pumps (43 20)			
43 24 41 Archimedes Screw Pumps (43 24)			
43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps (43 24 41)			
43 24 41 23-0001 Positive Displacement Pump (43 24 41 23)			
43 24 41 23-0002	EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing.....	2,240.96	
43 40 Gas and Liquid Storage (43)			
43 42 Pressurized Tanks And Vessels (43 40)			
43 42 41 Metallic Specialty Pressure Tanks (43 42)			
43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls (43 42 41)			
43 42 41 00-0002	EA 250 Gallon Aboveground LP Gas Storage Tank.....	1,201.78	101.38
43 42 41 00-0003	EA 500 Gallon Aboveground LP Gas Storage Tank.....	2,203.16	152.08
43 42 41 00-0004	EA 1,000 Gallon Aboveground LP Gas Storage Tank.....	3,123.45	162.22

END OF SECTION 43

43	43	Process Gas and Liquid Handling, Purification, and Storage Equipment
	43 40	Gas and Liquid Storage
	43 42	Pressurized Tanks And Vessels



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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